SURFACE CLEANING PILOT TEST REPORT

General Chemical Corporation Facility

133 Leland Street

Framingham, Massachusetts 01702

MA License No. 27B/2006

Prepared By:

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I. INTRODUCTION

PRIME Engineering, Inc. (PRIME) has prepared this Pre-Closure Surface Cleaning Pilot Test Report (Pilot Test Report) to document the results of environmental monitoring during the cleaning of a portion of the interior of Building No. 1 and Tank No. 5 at the General Chemical Corporation (GCC) facility located at 133 Leland Street in Framingham, Massachusetts on June 26, 2012. An evaluation of field screening and laboratory data collected by PRIME personnel during the two Pilot Tests on June 26, 2012 has revealed that specific airborne contaminants of concern (COCs) may be present during the proposed decommissioning of the 133 Leland Street facility, and should be monitored during facility closure activities.

II. PARTIES PRESENT DURING PILOT TEST

The following parties were present during the Pilot Test:

Name:	Company:	Role/Responsibility:
Robert Rego	PRIME Engineering, Inc.	P.E., Environmental Monitoring
William Kenney	PRIME Engineering, Inc.	Environmental Monitoring
John Fitzgerald	MassDEP	Environmental Monitoring (Regulator)
Andrew Clark	MassDEP	Environmental Monitoring (Regulator)
John Magri	Framingham F.D.	Program Oversight (Asst. Fire Chief)
Gary Daugherty	Framingham F.D.	Program Oversight (Fire Chief)
Roy Swartz	General Chemical Corp.	Health and Safety/Program Oversight
Steven Ganley	General Chemical Corp.	General Manager

Note: Several additional GCC employees were present during the Pilot Test, however, are not referenced herein.

III. SURFACE CLEANING PROCEDURE

GCC personnel conducted a Surface Cleaning Pilot Test by pressure-washing the painted brick walls and epoxy-coated concrete floor at the northwestern corner of Building No. 1 and the interior of Aboveground Storage Tank No. 5 (Tank No. 5) on June 26, 2012. The pressure washing was conducted using a 10 HP Landa Model No. MHP4-3500 pressure washer. Prior to cleaning the interior of Building No. 1, all openings (i.e., utility penetrations, HVAC vents, cracks, and holes) were sealed and polyethylene sheeting was placed in the doorway on the southern portion of the building. In order to establish the most efficient means of cleaning, surfaces were cleaned with a gasoline-powered pressure washer using a combination of high pressure, high temperature, and Simple Green® surfactant. Spent pressure washing liquids were recovered using a vacuum tank truck and placed in containers for subsequent disposal.

The following is a summary of the times and methods of cleaning associated with this Pilot Test:

Cleaning of Building No. 1 Interior
Time Start: 8:25
Time End: 9:45
8:25-8:40: Cold Water (high pressure)
8:45-8:55: Cold Water/Simple Green® mixture (high pressure)
9:00-9:45: Hot Water/Simple Green® mixture (high pressure)
Cleaning of Tank No. 5 Interior
Time Start: 10:45
Time End: 12:00
10:45-12:00: Hot Water/Simple Green® mixture (high pressure)

IV. AIR MONITORING

PRIME and MassDEP personnel monitored the quality of air at up-wind, work zone, and down-wind locations during the Surface Cleaning Pilot Test on June 26, 2012 (refer to Figures 1 and 2 for sampling locations). The purpose of PRIME's air monitoring during the Pilot Test was to provide data to validate the adequacy of the proposed screening/sampling to be conducted during the proposed GCC facility decommissioning. Data collection protocol and the results of air monitoring data collected by PRIME during the Pilot Test are included in the following subsections. Data collection protocol and air monitoring data collected by MassDEP will be provided in a separate report.

A. Weather Station

Prior to starting, during and at the end of each portion of the Pilot Test, PRIME collected meteorological data using a Davis Vantage Pro 2 weather station, which was staged on the western portion of the GCC property. The weather station indicated that wind was blowing from the west/northwest to the east/southeast at a velocity generally less than 5 miles per hour. The established wind direction was the basis for the placement of the up-wind, work zone, and down-wind air monitoring and sampling locations. The results of weather station recordings at the beginning and end of each portion of the Pilot Test are presented in **Table 1**.

B. Particulate Monitors

PRIME collected continuous real time particulate monitoring data during Pilot Testing activities using portable DustTrak™ Model 8530 (DustTrak II) aerosol monitors (particulate monitors), which were housed within weather-proof enclosures. Prior to beginning particulate monitoring activities, each particulate monitor was zeroed in accordance with the manufacturer's recommendations. During each part of the Pilot Test, 15-minute time-weighted average (TWA) samples of PM_{10} particles (particles that are 10 microns or less) were recorded at one (1) up-wind and two (2) down-wind particulate monitoring locations (refer to Figure 1 for locations). The maximum PM_{10} concentration (15-min TWA) observed was 29 $\mu g/m^3$ in the downwind station during the cleaning of Building No. 1. The results of

particulate monitoring indicate that aerosol and dust migration associated with building interior and tank cleanings did not exceed the preliminary action levels of 60 µg/m^3. Particulate monitoring results are presented in **Table 1**.

C. Total Organic Volatile Screening

PRIME personnel conducted real-time total organic volatile (TOV) monitoring during Pilot Test using two (2) ppbRAE3000 Organic Volatile Meters (ppbRAEs), which were calibrated, and certified as such, by Pine Environmental prior to their one-day rental. During the Pilot test TOV screening was conducted inside Building No.1, along the entire outside perimeter of Building No. 1, at the passage door to Building No. 1, along the fence line, at each sampling location, at the opening on the lower portion of Tank No. 5, at the exhaust location of the gas powered pressure washer, and at the exhaust location from the carbon drum connected to the vacuum trucks outlet vent. Other than inside the building and directly in front of the exhaust pipe to the gas powered generator, no TOVs were detected at concentrations greater than the ppbRAEs' instrument detection limits during the cleaning of Building No. 1 or the interior of Tank No. 5. The maximum concentration of TOVs detected during the cleaning of the interior of Building No. 1 was between 6 to 7 parts per million (ppm), as measured within Building No. 1 immediately after the low temperature, high pressure cleaning with Simple Green® solution had been conducted. PRIME personnel noted that the TOV concentrations at the exhaust pipe of the gasoline-powered pressure washer, as measured during the cleaning of Building No. 1, were between 8 to 9 ppm. The results of TOV screening, as recorded at specific locations during Pilot Test, are presented in **Table 2**.

D. VOC Sampling and Laboratory Analysis

PRIME personnel collected four (4) air samples [one (1) up-wind, one (1) work zone, and two (2) down-wind] during the cleaning of the interior Building No. 1 and four (4) air samples [one (1) up-wind, one (1) work zone, and two (2) down-wind] during the cleaning of the interior of Tank No. 5. Air samples were collected using pre-cleaned Summa® Canisters with two-hour regulators. The vacuum of each Summa® Canister was observed to be approximately 30 psi at the beginning of each test, and pertinent meteorological data (i.e. temperature and ambient air pressure) was obtained using the weather station referenced in Section IV(A). Air samples were submitted, under a chain of custody, to Test America, of Burlington Vermont, for laboratory analysis of TO-15 Analytes and Tentatively Identified Compounds (TICs), via Gas Chromatography/Mass Spectrometry (GC/MS) Method TO-15. Laboratory results are included in **Attachment A**, and a summary of laboratory analytical data are presented in **Table 3**.

An evaluation of laboratory results conducted on air samples collected during the Pilot Test has revealed that several VOCs were detected; however, no VOC analytes (for which action levels were developed) were detected at concentrations greater than their respective preliminary action levels, as specified in the Closure Plan.

The detected VOC analyte are considered to be contaminants of concern (COC) for the Closure Operations. A list of the COCs are in included in Table 4. A detailed discussion of the identification of the COC and development of the associated action levels is presented in Section V.

E. Air Quality Sampling

PRIME personnel collected composite PM_{10} particulate samples during the Pilot Test cleaning of the interior of Building No. 1. Particulate samples were collected using a BGI PQ100 portable high volume PM_{10} sampling unit. The filter cassettes were submitted, under a chain of custody, to ESS Laboratory, of Cranston, Rhode Island, for laboratory analysis of Semi-Volatile Organic Compounds (SVOCs) with Tentatively Identified Compounds (TICs), Pesticides, and RCRA 8 Metals via US EPA-approved analytical methodology. Laboratory results are included in **Attachment B**.

An evaluation of laboratory results conducted on filter samples collected during the cleaning of the interior of Building No. 1 Pilot Test indicate that with the exception of one TIC (aldol product), no SVOC, Pesticide, or Metal analytes were detected at concentrations greater than their respective analytical method detection limits.

The tentatively identified SVOC analyte detected was also detected by the laboratory in the Method Blank. The tentative identification of aldol is most likely due to laboratory error and is therefore, not considered a COC.

V. IDENTIFICATION OF COC AND DEVELOPMENT OF ACTION LEVELS

Samples were collected and analyzed for all compounds licensed for storage at the GCC facility during the Pilot Test (i.e., semi-volatile organic compounds (SVOCs), heavy metals, pesticides, and VOCs). With the exception of one tentatively identified compound (aldol product) no SVOCs, metals, or pesticides were detected at concentrations greater than their respective analytical method detection limits. Several VOCs were identified at levels above their respective analytical method detection limits.

Several of the VOCs detected were also identified in upwind (i.e., background samples). Analytes detected at the upwind locations at similar concentrations to downwind locations were not retained as COC. All other analytes that were detected were retained as COC.

Action levels were developed for each COC. The action levels established for the closure project were developed to be protective of human health and represent extremely conservative levels that may pose a concern to human health over much longer periods of exposure. The established action levels <u>do not</u> represent an unacceptable risk to human health, but rather an early warning that operations must be adjusted to reduce off-site emissions. A summary of the action levels for each COC is presented in **Table 4**.

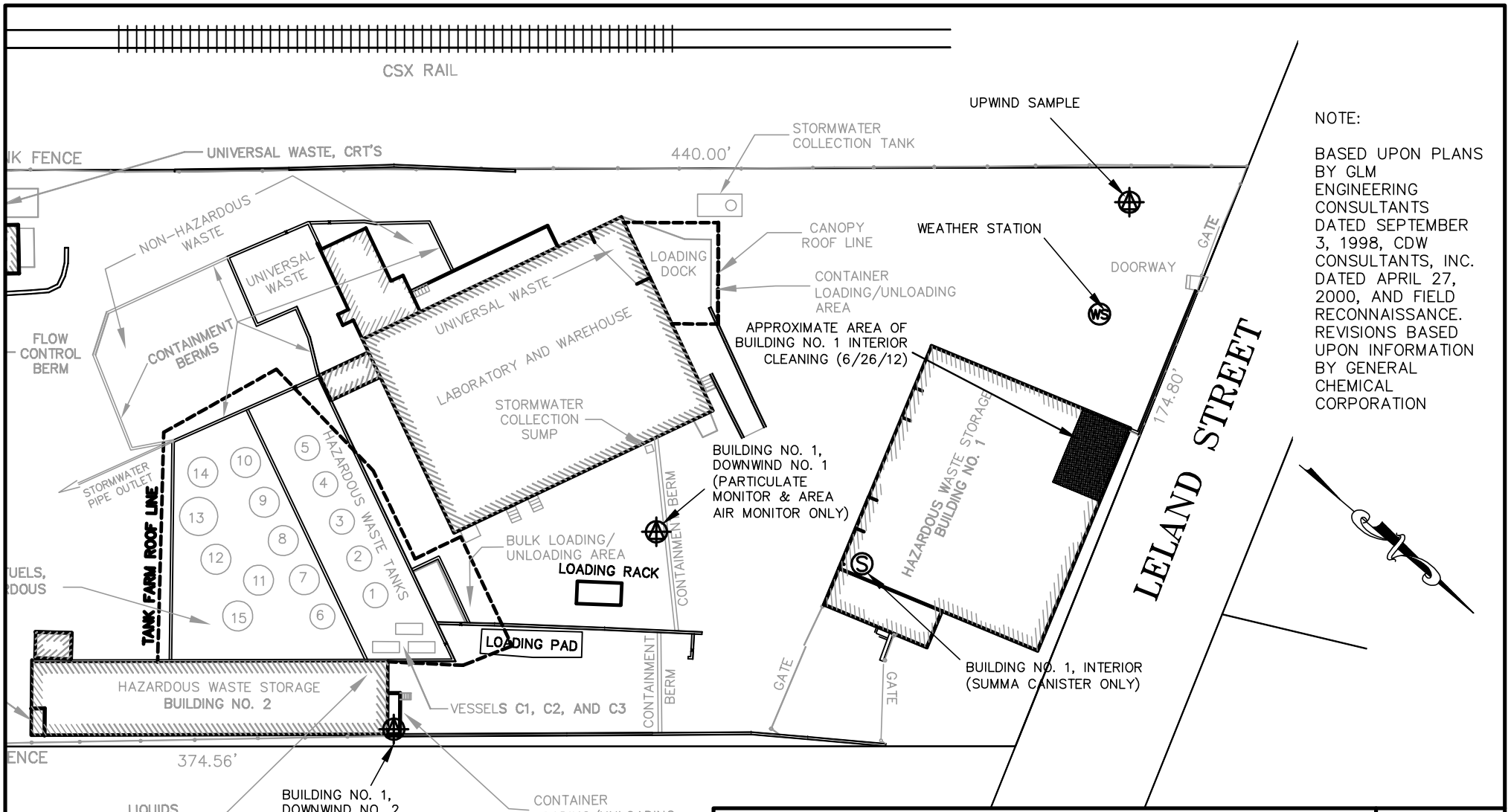
Since no SVOCs, metals, or pesticides were identified in the samples collected during the Pilot Study, PRIME suggests that the action levels for particulate monitoring utilized during the Pilot Study (60µg/m^3 for PM_{10} particulates) should be used during full scale closure operations.

A detailed discussion of the monitoring that is to be conducted during full-scale closure operations and the associated action levels is presented in Section VIII of the Facility Closure Plan to which this report is appended.

VI. DATA QUALITY EVALUATION

PRIME has prepared an evaluation of the quality of data collected during this pilot test. A summary of the Summa® Canister samples is included in Table 5. This evaluation is included in Appendix C.

FIGURES



NOTE:

BASED UPON PLANS BY GLM ENGINEERING CONSULTANTS DATED SEPTEMBER 3, 1998, CDW CONSULTANTS, INC. DATED APRIL 27, 2000, AND FIELD RECONNAISSANCE. REVISIONS BASED UPON INFORMATION BY GENERAL CHEMICAL CORPORATION

LEGEND

- ⊕ – PARTICULATE MONITOR & SUMMA CANISTER LOCATION
- (WS) – WEATHER STATION
- (S) – SUMMA CANISTER LOCATION

DRAWING TITLE	PILOT TEST SAMPLING LOCATIONS BUILDING NO. 1
PROJECT	LELAND STREET FACILITY CLOSURE FRAMINGHAM, MASSACHUSETTS
CLIENT	GENERAL CHEMICAL CORPORATION FRAMINGHAM, MASSACHUSETTS
SCALE:	1"=40'
DATE:	JULY 10, 2012
DRAWN BY:	EKW
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	RSR

• CIVIL ENGINEERING
• LAND SURVEYING
• ENVIRONMENTAL ASSESSMENT

PRIME ENGINEERING INC

P.O. BOX 1088
LAKEVILLE, MA 02347

TEL: 508.947.0050
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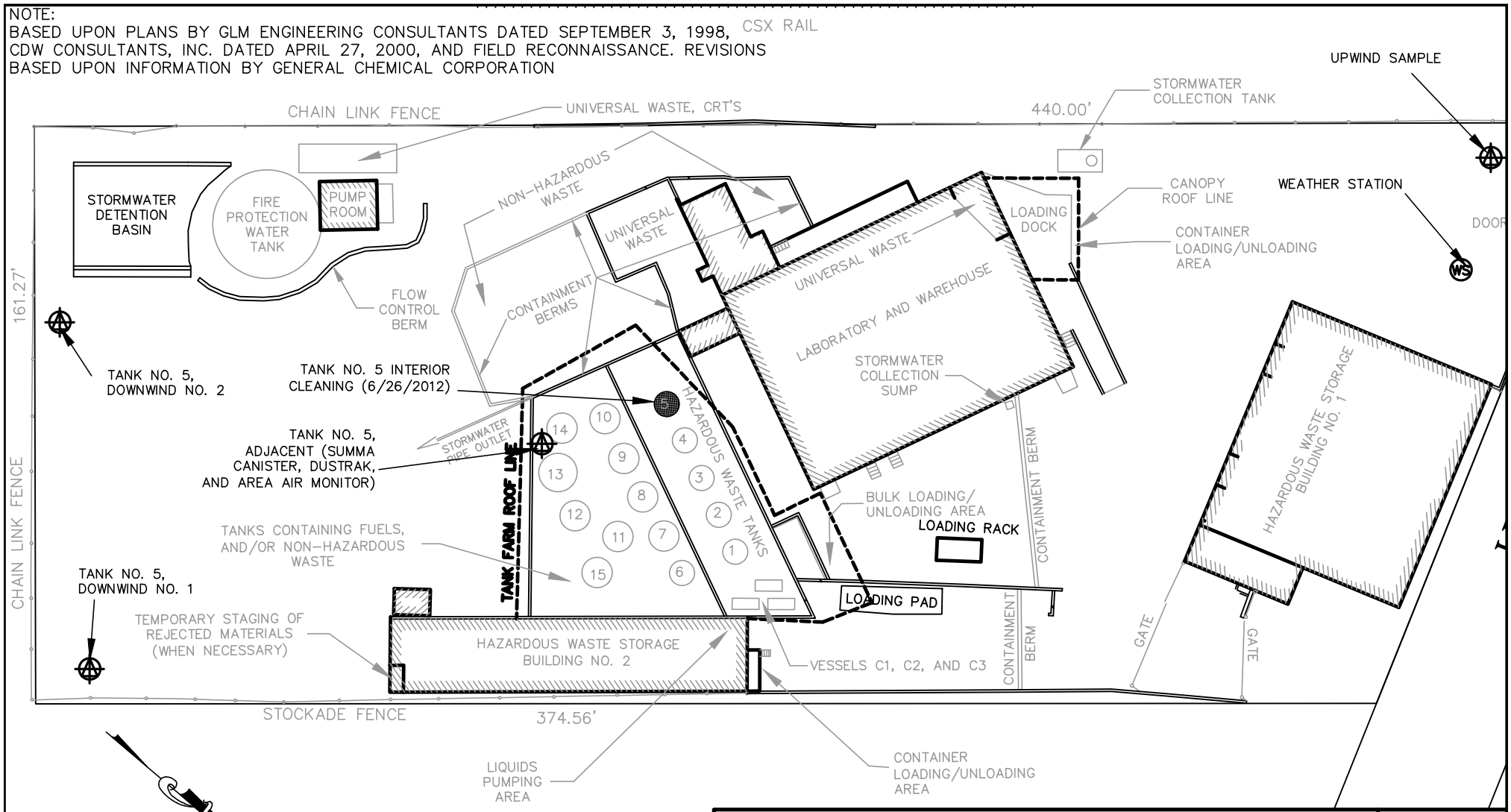
NOTE:
BASED UPON PLANS BY GLM ENGINEERING CONSULTANTS DATED SEPTEMBER 3, 1998, CDW CONSULTANTS, INC. DATED APRIL 27, 2000, AND FIELD RECONNAISSANCE. REVISIONS BASED UPON INFORMATION BY GENERAL CHEMICAL CORPORATION



LEGEND

- PARTICULATE MONITOR & SUMMA CANISTER LOCATION
- WEATHER STATION
- SUMMA CANISTER LOCATION

DRAWING TITLE	PILOT TEST SAMPLING LOCATIONS TANK NO. 5
PROJECT	LELAND STREET FACILITY CLOSURE FRAMINGHAM, MASSACHUSETTS
CLIENT	GENERAL CHEMICAL CORPORATION FRAMINGHAM, MASSACHUSETTS
SCALE:	1"=40'
DATE:	JULY 10, 2012
DRAWN BY:	EKW
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	RSR

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TABLES

Table 1
Particulate Monitoring Results
Pilot Test
Cleaning of the Interior of BuildingNo. 1
June 26, 2012

General Chemical Corp.
133 Leland Street
Framingham, Massachusetts

UPWIND STATION	
INSTRUMENT INFORMATION	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530111721
Firmware Version	2.8
TEST DATA	
Test Name	UP-WIND_001
Test Start Time	8:12:11 PM
Test Start Date	6/26/2012
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
PM10 Average [mg/m3]	0.005
PM10 Minimum [mg/m3]	0.004
PM10 Maximum [mg/m3]	0.006
PM10 TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	1
Errors	0
Number of Samples	6
Elapsed Time [s]	**Mass [mg/m3]**
900	0.004
1800	0.005
2700	0.004
3600	0.005
4500	0.006
5400	0.005

DOWNWIND #1 STATION	
INSTRUMENT INFORMATION	
Instrument Name	DustTrak II
Model Number	8533
Serial Number	8533113401
Firmware Version	2.9
TEST DATA	
Test Name	WORK ZONE_001
Test Start Time	20:15:48
Test Start Date	6/26/2012
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
PM10 Average [mg/m3]	0.016
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	0.029
PM10 TWA [mg/m3]	0.003
Photometric User Cal	1
Flow User Cal	1
Errors	0
Number of Samples	6
Elapsed Time [s]	**Mass [mg/m3]**
900	0.015
1800	0.029
2700	0.008
3600	0.015
4500	0.013
5400	0.014

DOWNWIND #2 STATION	
INSTRUMENT INFORMATION	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530110308
Firmware Version	2.9
TEST DATA	
Test Name	DOWNWIND_001
Test Start Time	8:16:27 PM
Test Start Date	6/26/2012
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
PM10 Average [mg/m3]	0.014
PM10 Minimum [mg/m3]	0.011
PM10 Maximum [mg/m3]	0.017
PM10 TWA [mg/m3]	0.003
Photometric User Cal	1
Flow User Cal	1
Errors	0
Number of Samples	6
Elapsed Time [s]	**Mass [mg/m3]**
900	0.017
1800	0.017
2700	0.011
3600	0.015
4500	0.013
5400	0.013

Meteorological Data:			
	Start		**End**
Temperature	67 F		66 F
Humidity	73%		71%
Pressure	29.51 in. Hg		29.52 in. Hg

Table 1
Particulate Monitoring Results
Pilot Test
Cleaning of Aboveground Storage Tank No. 5
June 26, 2012

General Chemical Corp.
133 Leland Street
Framingham, Massachusetts

PILOT TEST #2 - UPWIND STATION	
INSTRUMENT INFORMATION	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530111721
Firmware Version	2.8
TEST DATA	
Test Name	UP-WIND_002
Test Start Time	10:35:18 PM
Test Start Date	6/26/2012
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.005
Mass Minimum [mg/m3]	0.002
Mass Maximum [mg/m3]	0.007
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	1
Errors	0
Number of Samples	6
Elapsed Time [s]	**Mass [mg/m3]**
900	0.007
1800	0.004
2700	0.004
3600	0.003
4500	0.002
5400	0.007

DOWNWIND #1 STATION	
INSTRUMENT INFORMATION	
Instrument Name	DustTrak II
Model Number	8533
Serial Number	8533113401
Firmware Version	2.9
TEST DATA	
Test Name	WORK ZONE_002
Test Start Time	22:32:40
Test Start Date	6/26/2012
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
PM10 Average [mg/m3]	0.009
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.011
PM10 TWA [mg/m3]	0.002
Photometric User Cal	1
Flow User Cal	1
Errors	0
Number of Samples	6
Elapsed Time [s]	**Mass [mg/m3]**
900	0.007
1800	0.008
2700	0.008
3600	0.01
4500	0.01
5400	0.011

DOWNWIND #2 STATION	
INSTRUMENT INFORMATION	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530110308
Firmware Version	2.9
TEST DATA	
Test Name	DOWNWIND_002
Test Start Time	10:34:03 PM
Test Start Date	6/26/2012
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
PM10 Average [mg/m3]	0.008
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.009
PM10 TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	1
Errors	0
Number of Samples	6
Elapsed Time [s]	**Mass [mg/m3]**
900	0.008
1800	0.007
2700	0.007
3600	0.008
4500	0.008
5400	0.009

Meteorological Data:			
	Start		**End**
Temperature	65 F		64 F
Humidity	72%		72%
Pressure	29.52 in. Hg		29.52 in. Hg

Table 2
Total Organic Volatile Screening Summary
June 26, 2012

General Chemical Corp.
133 Leland Street
Framingham, Massachusetts

Time:	Location	Unit	Result
8:45	Up-Wind	ppb	0
8:45	Building No. 1 Downwind No. 1	ppb	0
8:45	Building No. 1 Downwind No. 2	ppb	0
8:45	Building No. 1 Interior	ppb	6598
8:45	Pressure Washer Emission	ppb	8746
8:45	Sweep Around Building No. 1	ppb	0
8:45	Building No. 1 Interior	ppb	7.8
9:15	Up-Wind	ppb	0
9:15	Building No. 1 Downwind No. 1	ppb	0
9:15	Building No. 1 Downwind No. 2	ppb	0
9:15	Building No. 1 Interior	ppb	0
9:15	Pressure Washer Emission	ppb	0
9:15	Carbon Can Effluent	ppb	0
9:50	Building No. 1 Interior	ppb	5362
11:00	Adjacent to Tank No. 5	ppb	0
11:00	Above Tank No. 5	ppb	0
11:00	Up-Wind	ppb	0
11:00	Tank No. 5 Downwind No. 1	ppb	0
11:00	Tank No. 5 Downwind No. 2	ppb	0
11:00	Perimeter of Secondary Cont.	ppb	0
11:00	Simple Green Cannister	ppb	56700

Notes: 1.) Screening conducted with ppbRAE 3000 Organic Volatile Meter.

Data Entered by BK (7/6/2012)
Data QA by VMH (7/6/2012)

Table 3
Volatile Organic Compound Analytical Summary
Pilot Test #1
Cleaning of Hazardous Waste Storage Building No. 1
June 26, 2012

General Chemical Corp.
133 Leland Street
Framingham, Massachusetts

Analyte	Unit	Action Level (ppm)	PID Screening Value[2]	BLDG. NO. 1, UPWIND		BLDG. NO. 1, INTERIOR		BLDG. NO. 1, DOWNWIND 1		BLDG. NO. 1, DOWNWIND 2	
1,1,1-Trichloroethane	ppb v/v	944		0.28	U	11		0.38	U	0.2	U
1,1,2,2-Tetrachloroethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,1,2-Trichloroethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,1-Dichloroethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,1-Dichloroethene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2,4-Trichlorobenzene	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
1,2,4-Trimethylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2-Dibromoethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2-Dichlorobenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2-Dichloroethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2-Dichloropropane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2-Dichlorotetrafluoroethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,3,5-Trimethylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,3-Butadiene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,3-Dichlorobenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,4-Dichlorobenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,4-Dioxane	ppb v/v			7.1	U	260	U	9.4	U	5	U
2,2,4-Trimethylpentane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
2-Chlorotoluene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
3-Chloropropene	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
4-Ethyltoluene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
4-Isopropyltoluene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Acetone	ppb v/v	334		7.1	U	5100	E	9.4	U	6.1	
Benzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Benzyl chloride	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Bromodichloromethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Bromoethene(Vinyl Bromide)	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Bromoform	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Bromomethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Carbon disulfide	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Carbon tetrachloride	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Chlorobenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Chloroethane	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Chloroform	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Chloromethane	ppb v/v			0.78		26	U	0.94	U	0.76	
cis-1,2-Dichloroethene	ppb v/v			0.28	U	44		0.38	U	0.2	U
cis-1,3-Dichloropropene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Cumene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Cyclohexane	ppb v/v			0.28	U	3000	E	0.46		0.33	
Dibromochloromethane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Dichlorodifluoromethane	ppb v/v			0.75		26	U	0.94	U	0.74	
Ethylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Freon 22	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Freon TF	ppb v/v			0.28	U	47		0.38	U	0.2	U
Hexachlorobutadiene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Isopropyl alcohol	ppb v/v			7.1	U	260	U	9.4	U	5	U
m,p-Xylene	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Methyl Butyl Ketone (2-Hexanone)	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Methyl Ethyl Ketone	ppb v/v			0.85		26	U	0.94	U	0.5	
methyl isobutyl ketone	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Methyl methacrylate	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
Methyl tert-butyl ether	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Methylene Chloride	ppb v/v			1.2		26	U	0.94	U	1.1	
Naphthalene	ppb v/v			0.71	U	26	U	0.94	U	0.5	U
n-Butane	ppb v/v			0.71	U	32		0.94	U	0.5	U
n-Butylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
n-Heptane	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
n-Hexane	ppb v/v			0.28	U	55		0.38	U	0.2	U
n-Propylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
sec-Butylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Styrene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
tert-Butyl alcohol	ppb v/v			7.1	U	260	U	9.4	U	5	U
tert-Butylbenzene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Tetrachloroethene	ppb v/v			0.28	U	23		0.38	U	0.48	
Tetrahydrofuran	ppb v/v			7.1	U	260	U	9.4	U	5	U
Toluene	ppb v/v			2.3		18		0.76		1.1	
trans-1,2-Dichloroethene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
trans-1,3-Dichloropropene	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Trichloroethene	ppb v/v			0.28	U	11	U	0.38	U	0.67	
Trichlorofluoromethane	ppb v/v			0.29		11	U	0.38	U	0.28	
Vinyl chloride	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
Xylene, o-	ppb v/v			0.28	U	11	U	0.38	U	0.2	U
1,2-Dichloroethene, Total	ppb v/v			0.28	U	44		0.38	U	0.2	U
Xylene (total)	ppb v/v			0.4		11	U	0.38	U	0.33	
Butane, 2,3-dimethyl-	ppb v/v					250	J N				
Pentane, 2-methyl-	ppb v/v					1500	J N				
Pentane, 3-methyl-	ppb v/v					500	J N				
Propane	ppb v/v					1100	J N				
Unknown	ppb v/v					55	J				

Data Entered by RSR (7/6/2012)
Data QA by VMH (7/6/2012)

Table 3
Volatile Organic Compound Analytical Summary
Pilot Test #2
Cleaning of Aboveground Storage Tank No. 5
June 26, 2012

General Chemical Corp.
133 Leland Street
Framingham, Massachusetts

Analyte	Unit	TANK NO. 5, UPWIND		TANK NO. 5, ADJACENT		TANK NO. 5, DOWNWIND NO. 1		TANK NO. 5, DOWNWIND NO. 2	
1,1,1-Trichloroethane	ppb v/v	0.27	U	0.32		0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,1,2-Trichloroethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,1-Dichloroethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,1-Dichloroethene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2-Dibromoethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2-Dichlorobenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2-Dichloroethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2-Dichloropropane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2-Dichlorotetrafluoroethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,3-Butadiene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,3-Dichlorobenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,4-Dichlorobenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,4-Dioxane	ppb v/v	6.7	U	5	U	5	U	5	U
2,2,4-Trimethylpentane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
2-Chlorotoluene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
3-Chloropropene	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
4-Ethyltoluene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
4-Isopropyltoluene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Acetone	ppb v/v	7.8		8		6		5.8	
Benzene	ppb v/v	0.27	U	0.23		0.2	U	0.2	U
Benzyl chloride	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Bromodichloromethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Bromoethene(Vinyl Bromide)	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Bromoform	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Bromomethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Carbon disulfide	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Chlorobenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Chloroethane	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
Chloroform	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Chloromethane	ppb v/v	0.87		0.86		0.77		0.84	
cis-1,2-Dichloroethene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
cis-1,3-Dichloropropene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Cumene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Cyclohexane	ppb v/v	0.65		0.37		0.2	U	0.2	U
Dibromochloromethane	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Dichlorodifluoromethane	ppb v/v	0.77		0.79		0.78		0.83	
Ethylbenzene	ppb v/v	0.27	U	0.22		0.2	U	0.2	U
Freon 22	ppb v/v	0.67	U	0.6		0.5	U	0.5	U
Freon TF	ppb v/v	0.27	U	0.24		0.2	U	0.2	U
Hexachlorobutadiene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Isopropyl alcohol	ppb v/v	6.7	U	5	U	5	U	5	U
m,p-Xylene	ppb v/v	0.67	U	0.6		0.5	U	0.5	U
Methyl Butyl Ketone (2-Hexanone)	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
Methyl Ethyl Ketone	ppb v/v	0.89		0.98		0.66		0.5	U
methyl isobutyl ketone	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
Methyl methacrylate	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
Methyl tert-butyl ether	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Methylene Chloride	ppb v/v	2.4		2.8		0.76		0.5	U
Naphthalene	ppb v/v	0.67	U	0.5	U	0.5	U	0.5	U
n-Butane	ppb v/v	0.67	U	0.51		0.5	U	0.5	U
n-Butylbenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
n-Heptane	ppb v/v	0.27	U	0.39		0.2	U	0.2	U
n-Hexane	ppb v/v	0.27	U	0.27		0.2	U	0.2	U
n-Propylbenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
sec-Butylbenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Styrene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
tert-Butyl alcohol	ppb v/v	6.7	U	5	U	5	U	5	U
tert-Butylbenzene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Tetrachloroethene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Tetrahydrofuran	ppb v/v	6.7	U	5	U	5	U	5	U
Toluene	ppb v/v	3.7		3.4		0.6		0.25	
trans-1,2-Dichloroethene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
trans-1,3-Dichloropropene	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Trichloroethene	ppb v/v	0.27	U	0.64		0.2	U	0.2	U
Trichlorofluoromethane	ppb v/v	0.3		0.31		0.3		0.31	
Vinyl chloride	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Xylene, o-	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
1,2-Dichloroethene, Total	ppb v/v	0.27	U	0.2	U	0.2	U	0.2	U
Xylene (total)	ppb v/v	0.58		0.77		0.2	U	0.2	U

1.) Samples collected by Prime Engineering, Inc. personnel on June 26, 2012, and were analyzed for TO-15 (with additional analytes) by
2.) ND - Not detected at a concentration greater than the analytical reporting limit (refer to laboratory report).

Data Entered by RSR (7/6/2012)
Data QA by VMH (7/6/2012)

TABLE 4

CONTAMINANTS OF CONCERN
AT THE
GENERAL CHEMICAL FACILITY

Preliminary Compound of Concern	CAS Number	Action Level (µg/m3)	Action level Basis
1,1,1,-trichloroethane	71-55-6	5148	IH Risk Calc.
acetone	67-64-1	792	IH Risk Calc.
Benzene	71-43-2	16	IH Risk Calc.
2,3-dimethylbutane	79-29-8	200	IH Risk Calc.[1]
Chloromethane	74-87-3	90.0	EPA RfC
cis-1,2-Dichloroethene	156-59-2	10	EPA RfC
Cyclohexane	110-82-7	6000	EPA RfC
Dichlorodifluoromethane	75-71-8	200	EPA RfD
Ethylbenzene	100414	1000	IH Risk Calc.
Freon 22	75-45-6	50000	EPA RfC
Freon TF	76-13-1	5358000	EPA RfC
m,p-Xylene	1330-20-7	100	IH Risk Calc.
Methyl ethyl ketone	78-93-3	10	IH Risk Calc.
methylene chloride	75-09-2	300	ASTDR MRL
n-Butane	106-97-8	200	IH Risk Calc.[1]
n-Heptane	142-82-5	200	IH Risk Calc.[1]
n-Hexane	110-54-3	700	EPA RfC
2-methylpentane	73513-43-6	200	IH Risk Calc.[1]
3-methylpentane	96-14-0	200	IH Risk Calc.[1]
Propane	80-05-7	200	IH Risk Calc.[1]
tetrachloroethylene	127-18-4	13	IH Risk Calc.
toluene	108-88-3	4950	IH Risk Calc.
Trichloroethylene	79-01-6	74	IH Risk Calc.
trichlorofluoromethane	75-69-4	130	EPA RSL
xylene	1330-20-7	297	IH Risk Calc.

MADEP, IH Risk Calc. - Massachusetts Department of Environmental Protection (MADEP) imminent hazard calculation using MADEP shortforms is the preferred screening level. The IH level is protective of daily human inhalation exposure for up to 5 years, including sensitive individuals such as children, the elderly, and those with pre-existing illnesses.

ATSDR Int. MRL - If no Intermediate MADEP, IH Risk Calc. is available, the screening level is the Agency for Toxic Substances and Disease Registry Intermediate Minimal Risk Level (MRL). The MRL is protective of daily human inhalation exposure for up to a year, including sensitive individuals such as children, the elderly, and those with pre-existing illnesses.

ATSDR Chronic MRL or EPA RfC - If no Intermediate MRL is available, the screening level is the ATSDR Chronic MRL or the EPA Reference Concentration (RfC). The chronic MRL and the RfC are protective of daily human inhalation exposure over a lifetime, including sensitive individuals.

IRIS RfD - If none of the above are available, the EPA Integrated Risk Information System (IRIS) Reference Dose is the screening level. The RfD are protective of daily exposure human exposure over a lifetime, including sensitive individuals.

1 - RfC's were not available for several of the COC. Several of the COC are compounds typically present in gasoline. For these compounds, RfCs were established using collective concentrations of specified ranges of aliphatic and/or aromatic hydrocarbons. This method is disccussed in great detail in the MADEP document entitled, Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MADEP VPH/EPH Approach"

Table 5
Summa Cannister Clarification Summary
June 26, 2012

General Chemical Corp.
133 Leland Street
Framingham, Massachusetts

Air Sample Identification (Field ID)	Laboratory Sample Identification (Lab ID)	Sample Date	Time Start	Time End	Flow Controller ID (field)	Flow Controller ID (lab)	Canister Serial No. (field)	Canister Serial No. (lab)	Canister Pressure (start) (lab)	Canister Pressure (start) (field)	Canister Pressure (End) (Field)	Canister Pressure (End) (Lab)
Bldg. No. 1, Upwind	200-11505-A-1	6/26/2012	8:29	9:49	3170	3170	6047	3279	NR	-30+	-12	-12.3
Bldg. No. 1, Interior	200-11505-A-3	6/26/2012	8:22	9:46	3051	3051	2522	2522	-28.9	-30+	-2	0.0
Bldg. No. 1, Downwind 1	200-11505-A-2	6/26/2012	8:24	9:47	3364	3364	3464	3464	-28.9	-30	-20	-16.8
Building No. 1 Downwind 2	200-11505-A-4	6/26/2012	8:24	9:48	2581	2581	4781	4781	NR	-30+	-0.1	0.0
Tank No. 5, Upwind	200-11505-A-6	6/26/2012	10:45	12:01	4043	4043	5279	3559	-28.9	-30	-11	-11.3
Tank No. 5, Adjacent	200-11505-A-5	6/26/2012	10:45	12:00	3298	3298	5384	3554	NR	-30	-11	-8.5
Tank No. 5, Downwind No. 1	200-11505-A-7	6/26/2012	10:38	12:05	5980	3980	5066	5066	-28.9	-22	-7	0.0
Tank No. 5, Downwind No. 2	200-11505-A-8	6/26/2012	10:41	12:03	3507	3301	6703	4373	-28.9	-30	-10	-7.9

APPENDIX A

Laboratory Analytical Results

(Ambient Air Sampling – VOCs)

CERTIFICATE OF ANALYSIS

Bob Rego
PRIME Engineering, Inc.
350 Bedford Street
Lakeville, MA 02347

RE: General Chemical (N/A)
ESS Laboratory Work Order Number: 1206443

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:39 pm, Jul 03, 2012

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Westfield, MA	Air TO-15

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical

ESS Laboratory Work Order: 1206443

SAMPLE RECEIPT

The following samples were received on June 27, 2012 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

For EPH soil samples, the aromatic range results have been corrected for identified cartridge contaminant in accordance with the CAM protocol.

Lab Number	SampleName	Matrix	Analysis
1206443-01	Bldg No 1 Upwind	Air	§
1206443-02	Bldg No 1 Downwind 1	Air	§
1206443-03	Bldg No 1 Interior	Air	§
1206443-04	Bldg No 1 Downwind 2	Air	§
1206443-05	Tank No 5 Adjacent	Air	§
1206443-06	Tank No 5 Upwind	Air	§
1206443-07	Tank No 5 Downwind No 1	Air	§
1206443-08	Tank No 5 Downwind No 2	Air	§

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical

ESS Laboratory Work Order: 1206443

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

MassDEP Analytical Protocol Certification Form

Laboratory Name: TestAmerica Laboratories Inc. – Burlington, VT Project #: 200-11505-1

Project Location: Framingham, MA RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
200-11505-1 through 200-11505-8

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☒ Air ☐ Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☒
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☒ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☒ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No[1]

***Data User Note*: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☒ Yes ☐ No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ **Position:** Project Manager

Printed Name: Ryan Hammond **Date:** July 3, 2012

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Bldg No 1 Upwind
Date Sampled: 06/26/12 09:49

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-01
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
TO-15	**See Attached** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Bldg No 1 Downwind 1
Date Sampled: 06/26/12 09:47

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-02
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	F/V	Batch
TO-15	**See Attached** (N/A)								

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Bldg No 1 Interior
Date Sampled: 06/26/12 09:46

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-03
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	F/V	Batch
TO-15	**See Attached** (N/A)								

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Bldg No 1 Downwind 2
Date Sampled: 06/26/12 09:48

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-04
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
TO-15	**See Attached** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Tank No 5 Adjacent
Date Sampled: 06/26/12 12:00

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-05
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
TO-15	**See Attached** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Tank No 5 Upwind
Date Sampled: 06/26/12 12:01

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-06
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
TO-15	**See Attached** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Tank No 5 Downwind No 1
Date Sampled: 06/26/12 12:05

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-07
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
TO-15	**See Attached** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical
Client Sample ID: Tank No 5 Downwind No 2
Date Sampled: 06/26/12 12:03

ESS Laboratory Work Order: 1206443
ESS Laboratory Sample ID: 1206443-08
Sample Matrix: Air
Units: %

Subcontracted Analysis

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
TO-15	**See Attached** (N/A)							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical

ESS Laboratory Work Order: 1206443

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical

ESS Laboratory Work Order: 1206443

Notes and Definitions

Z-08	See Attached
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical

ESS Laboratory Work Order: 1206443

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-11505-1
TestAmerica Sample Delivery Group: 200-11505-1
Client Project/Site: General Chemical

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk

Authorized for release by:
7/3/2012 12:15:47 PM

Ryan Hammond
Project Manager I
ryan.hammond@testamericainc.com

LINKS

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

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

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

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Air - GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Glossary

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

Job ID: 200-11505-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: ESS Laboratory

Project: General Chemical

Report Number: 200-11505-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/28/2012; the samples arrived in good condition.

The Chain-of-Custody (COC) was not properly filled out. The COC lists improper asset IDs for the following samples.

	Asset ID on COC	Correct Asset ID
BLDG. NO. 1, UPWIND:	6047 (can)	3279
TANK NO. 5, ADJACENT:	5384 (can)	3554
TANK NO. 5, UPWIND:	5279 (can)	3559
TANK NO. 5, DOWNWIND NO. 1:	5980 (f/c)	3980
TANK NO. 5, DOWNWIND NO. 2:	3507 (f/c)	3301
TANK NO. 5, DOWNWIND NO. 2 :	6703(can)	4373

During the canister pressure check performed upon receipt it was observed that samples BLDG. NO. 1, UPWIND, BLDG. NO. 1, DOWNWIND 1 and TANK NO. 5, UPWIND were received at an elevated residual vacuum level. The analysis of this sample continued.

During the canister pressure check performed upon receipt, samples BLDG. NO. 1, INTERIOR, BLDG. NO. 1, DOWNWIND 2 and TANK NO. 5, DOWNWIND NO. 1 were found to be received at ambient pressure. The analysis of this sample continued.

During the flow controller flow rate check performed upon receipt, the flow controller associated with sample BLDG. NO. 1, UPWIND yielded a relative percent difference that was outside of the acceptance criteria.

VOLATILE ORGANIC COMPOUNDS

Samples BLDG. NO. 1, UPWIND, BLDG. NO. 1, DOWNWIND 1, BLDG. NO. 1, INTERIOR, BLDG. NO. 1, DOWNWIND 2, TANK NO. 5, ADJACENT, TANK NO. 5, UPWIND, TANK NO. 5, DOWNWIND NO. 1 and TANK NO. 5, DOWNWIND NO. 2 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 06/29/2012.

The continuing calibration verification (CCV) for 1,4-Dichlorobenzene associated with batch 41163 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Samples BLDG. NO. 1, DOWNWIND 1[2X], BLDG. NO. 1, INTERIOR[352X] and BLDG. NO. 1, INTERIOR[53X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analyses.

Job ID: 200-11505-1 (Continued)

Laboratory: TestAmerica Burlington (Continued)

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, UPWIND — Lab Sample ID: 200-11505-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.75		0.71	0.71	ppb v/v	1.41		TO-15	Total/NA
Chloromethane	0.78		0.71	0.71	ppb v/v	1.41		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.28	0.28	ppb v/v	1.41		TO-15	Total/NA
Methylene Chloride	1.2		0.71	0.71	ppb v/v	1.41		TO-15	Total/NA
Methyl Ethyl Ketone	0.85		0.71	0.71	ppb v/v	1.41		TO-15	Total/NA
Toluene	2.3		0.28	0.28	ppb v/v	1.41		TO-15	Total/NA
Xylene (total)	0.40		0.28	0.28	ppb v/v	1.41		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.7		3.5	3.5	ug/m3	1.41		TO-15	Total/NA
Chloromethane	1.6		1.5	1.5	ug/m3	1.41		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.6	1.6	ug/m3	1.41		TO-15	Total/NA
Methylene Chloride	4.3		2.4	2.4	ug/m3	1.41		TO-15	Total/NA
Methyl Ethyl Ketone	2.5		2.1	2.1	ug/m3	1.41		TO-15	Total/NA
Toluene	8.8		1.1	1.1	ug/m3	1.41		TO-15	Total/NA
Xylene (total)	1.7		1.2	1.2	ug/m3	1.41		TO-15	Total/NA

Client Sample ID: BLDG. NO. 1, DOWNWIND 1 — Lab Sample ID: 200-11505-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.46		0.38	0.38	ppb v/v	1.88		TO-15	Total/NA
Toluene	0.76		0.38	0.38	ppb v/v	1.88		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	1.6		1.3	1.3	ug/m3	1.88		TO-15	Total/NA
Toluene	2.9		1.4	1.4	ug/m3	1.88		TO-15	Total/NA

Client Sample ID: BLDG. NO. 1, INTERIOR — Lab Sample ID: 200-11505-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	32		26	26	ppb v/v	52.8		TO-15	Total/NA
Freon TF	47		11	11	ppb v/v	52.8		TO-15	Total/NA
n-Hexane	55		11	11	ppb v/v	52.8		TO-15	Total/NA
cis-1,2-Dichloroethene	44		11	11	ppb v/v	52.8		TO-15	Total/NA
1,2-Dichloroethene, Total	44		11	11	ppb v/v	52.8		TO-15	Total/NA
1,1,1-Trichloroethane	11		11	11	ppb v/v	52.8		TO-15	Total/NA
Toluene	18		11	11	ppb v/v	52.8		TO-15	Total/NA
Tetrachloroethene	23		11	11	ppb v/v	52.8		TO-15	Total/NA
Acetone - DL	5000	D	1800	1800	ppb v/v	352		TO-15	Total/NA
Cyclohexane - DL	3600	D	70	70	ppb v/v	352		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	77		63	63	ug/m3	52.8		TO-15	Total/NA
Freon TF	360		81	81	ug/m3	52.8		TO-15	Total/NA
n-Hexane	190		37	37	ug/m3	52.8		TO-15	Total/NA
cis-1,2-Dichloroethene	170		42	42	ug/m3	52.8		TO-15	Total/NA
1,2-Dichloroethene, Total	170		42	42	ug/m3	52.8		TO-15	Total/NA
1,1,1-Trichloroethane	62		58	58	ug/m3	52.8		TO-15	Total/NA
Toluene	66		40	40	ug/m3	52.8		TO-15	Total/NA
Tetrachloroethene	150		72	72	ug/m3	52.8		TO-15	Total/NA
Acetone - DL	12000	D	4200	4200	ug/m3	352		TO-15	Total/NA
Cyclohexane - DL	12000	D	240	240	ug/m3	352		TO-15	Total/NA

Client Sample ID: BLDG. NO. 1, DOWNWIND 2 — Lab Sample ID: 200-11505-4

Client Sample ID: BLDG. NO. 1, DOWNWIND 2 (Continued) — Lab Sample ID: 200-11505-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.74		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.76		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.28		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	6.1		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.1		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.50		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.33		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.67		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.48		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.33		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.7		2.5	2.5	ug/m3	1		TO-15	Total/NA
Chloromethane	1.6		1.0	1.0	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	1.1	ug/m3	1		TO-15	Total/NA
Acetone	15		12	12	ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.7		1.7	1.7	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.5		1.5	1.5	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.2		0.69	0.69	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.6		1.1	1.1	ug/m3	1		TO-15	Total/NA
Toluene	4.0		0.75	0.75	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.3		1.4	1.4	ug/m3	1		TO-15	Total/NA
Xylene (total)	1.4		0.87	0.87	ug/m3	1		TO-15	Total/NA

Client Sample ID: TANK NO. 5, ADJACENT — Lab Sample ID: 200-11505-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.79		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Freon 22	0.60		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.86		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Butane	0.51		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Freon TF	0.24		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	8.0		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	2.8		0.50	0.50	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.27		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.98		0.50	0.50	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.32		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.37		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.20	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.39		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.64		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Toluene	3.4		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.22		0.20	0.20	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.60		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.77		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.9		2.5	2.5	ug/m3	1		TO-15	Total/NA
Freon 22	2.1		1.8	1.8	ug/m3	1		TO-15	Total/NA
Chloromethane	1.8		1.0	1.0	ug/m3	1		TO-15	Total/NA
n-Butane	1.2		1.2	1.2	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	1.1	ug/m3	1		TO-15	Total/NA
Freon TF	1.9		1.5	1.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: TANK NO. 5, ADJACENT (Continued) — Lab Sample ID: 200-11505-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19		12	12	ug/m3	1		TO-15	Total/NA
Methylene Chloride	9.8		1.7	1.7	ug/m3	1		TO-15	Total/NA
n-Hexane	0.95		0.70	0.70	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.9		1.5	1.5	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	1.7		1.1	1.1	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.3		0.69	0.69	ug/m3	1		TO-15	Total/NA
Benzene	0.75		0.64	0.64	ug/m3	1		TO-15	Total/NA
n-Heptane	1.6		0.82	0.82	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.4		1.1	1.1	ug/m3	1		TO-15	Total/NA
Toluene	13		0.75	0.75	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.97		0.87	0.87	ug/m3	1		TO-15	Total/NA
m,p-Xylene	2.6		2.2	2.2	ug/m3	1		TO-15	Total/NA
Xylene (total)	3.3		0.87	0.87	ug/m3	1		TO-15	Total/NA

Client Sample ID: TANK NO. 5, UPWIND — Lab Sample ID: 200-11505-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.77		0.67	0.67	ppb v/v	1.33		TO-15	Total/NA
Chloromethane	0.87		0.67	0.67	ppb v/v	1.33		TO-15	Total/NA
Trichlorofluoromethane	0.30		0.27	0.27	ppb v/v	1.33		TO-15	Total/NA
Acetone	7.8		6.7	6.7	ppb v/v	1.33		TO-15	Total/NA
Methylene Chloride	2.4		0.67	0.67	ppb v/v	1.33		TO-15	Total/NA
Methyl Ethyl Ketone	0.89		0.67	0.67	ppb v/v	1.33		TO-15	Total/NA
Cyclohexane	0.65		0.27	0.27	ppb v/v	1.33		TO-15	Total/NA
Toluene	3.7		0.27	0.27	ppb v/v	1.33		TO-15	Total/NA
Xylene (total)	0.58		0.27	0.27	ppb v/v	1.33		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.8		3.3	3.3	ug/m3	1.33		TO-15	Total/NA
Chloromethane	1.8		1.4	1.4	ug/m3	1.33		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.5	1.5	ug/m3	1.33		TO-15	Total/NA
Acetone	19		16	16	ug/m3	1.33		TO-15	Total/NA
Methylene Chloride	8.3		2.3	2.3	ug/m3	1.33		TO-15	Total/NA
Methyl Ethyl Ketone	2.6		2.0	2.0	ug/m3	1.33		TO-15	Total/NA
Cyclohexane	2.2		0.92	0.92	ug/m3	1.33		TO-15	Total/NA
Toluene	14		1.0	1.0	ug/m3	1.33		TO-15	Total/NA
Xylene (total)	2.5		1.2	1.2	ug/m3	1.33		TO-15	Total/NA

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1 — Lab Sample ID: 200-11505-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.78		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.77		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.30		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	6.0		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.76		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.66		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Toluene	0.60		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.8		2.5	2.5	ug/m3	1		TO-15	Total/NA
Chloromethane	1.6		1.0	1.0	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		1.1	1.1	ug/m3	1		TO-15	Total/NA
Acetone	14		12	12	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.6		1.7	1.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1 (Continued) — Lab Sample ID: 200-11505-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Methyl Ethyl Ketone	1.9		1.5	1.5	ug/m3	1		TO-15	Total/NA
Toluene	2.3		0.75	0.75	ug/m3	1		TO-15	Total/NA

Client Sample ID: TANK NO. 5, DOWNWIND NO. 2 — Lab Sample ID: 200-11505-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.83		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.84		0.50	0.50	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.31		0.20	0.20	ppb v/v	1		TO-15	Total/NA
Acetone	5.8		5.0	5.0	ppb v/v	1		TO-15	Total/NA
Toluene	0.25		0.20	0.20	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.1		2.5	2.5	ug/m3	1		TO-15	Total/NA
Chloromethane	1.7		1.0	1.0	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		1.1	1.1	ug/m3	1		TO-15	Total/NA
Acetone	14		12	12	ug/m3	1		TO-15	Total/NA
Toluene	0.95		0.75	0.75	ug/m3	1		TO-15	Total/NA

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, UPWIND

Lab Sample ID: 200-11505-1

Date Collected: 06/26/12 09:49
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.75**		0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Freon 22	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
1,2-Dichlorotetrafluoroethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Chloromethane	**0.78**		0.71	0.71	ppb v/v			06/29/12 04:10	1.41
n-Butane	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Vinyl chloride	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,3-Butadiene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Bromomethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Chloroethane	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Bromoethene(Vinyl Bromide)	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Trichlorofluoromethane	**0.29**		0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Freon TF	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,1-Dichloroethene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Acetone	7.1	U	7.1	7.1	ppb v/v			06/29/12 04:10	1.41
Isopropyl alcohol	7.1	U	7.1	7.1	ppb v/v			06/29/12 04:10	1.41
Carbon disulfide	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
3-Chloropropene	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Methylene Chloride	**1.2**		0.71	0.71	ppb v/v			06/29/12 04:10	1.41
tert-Butyl alcohol	7.1	U	7.1	7.1	ppb v/v			06/29/12 04:10	1.41
Methyl tert-butyl ether	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
trans-1,2-Dichloroethene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
n-Hexane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,1-Dichloroethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Methyl Ethyl Ketone	**0.85**		0.71	0.71	ppb v/v			06/29/12 04:10	1.41
cis-1,2-Dichloroethene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,2-Dichloroethene, Total	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Chloroform	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Tetrahydrofuran	7.1	U	7.1	7.1	ppb v/v			06/29/12 04:10	1.41
1,1,1-Trichloroethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Cyclohexane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Carbon tetrachloride	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
2,2,4-Trimethylpentane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Benzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,2-Dichloroethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
n-Heptane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Trichloroethene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Methyl methacrylate	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
1,2-Dichloropropane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,4-Dioxane	7.1	U	7.1	7.1	ppb v/v			06/29/12 04:10	1.41
Bromodichloromethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
cis-1,3-Dichloropropene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
methyl isobutyl ketone	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Toluene	**2.3**		0.28	0.28	ppb v/v			06/29/12 04:10	1.41
trans-1,3-Dichloropropene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,1,2-Trichloroethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Tetrachloroethene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Methyl Butyl Ketone (2-Hexanone)	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Dibromochloromethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,2-Dibromoethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Chlorobenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, UPWIND

Lab Sample ID: 200-11505-1

Date Collected: 06/26/12 09:49
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
m,p-Xylene	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Xylene, o-	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Xylene (total)	**0.40**		0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Styrene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Bromoform	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Cumene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,1,2,2-Tetrachloroethane	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
n-Propylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
4-Ethyltoluene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,3,5-Trimethylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
2-Chlorotoluene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
tert-Butylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,2,4-Trimethylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
sec-Butylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
4-Isopropyltoluene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,3-Dichlorobenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,4-Dichlorobenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Benzyl chloride	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
n-Butylbenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,2-Dichlorobenzene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
1,2,4-Trichlorobenzene	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41
Hexachlorobutadiene	0.28	U	0.28	0.28	ppb v/v			06/29/12 04:10	1.41
Naphthalene	0.71	U	0.71	0.71	ppb v/v			06/29/12 04:10	1.41

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**3.7**		3.5	3.5	ug/m3			06/29/12 04:10	1.41
Freon 22	2.5	U	2.5	2.5	ug/m3			06/29/12 04:10	1.41
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	2.0	ug/m3			06/29/12 04:10	1.41
Chloromethane	**1.6**		1.5	1.5	ug/m3			06/29/12 04:10	1.41
n-Butane	1.7	U	1.7	1.7	ug/m3			06/29/12 04:10	1.41
Vinyl chloride	0.72	U	0.72	0.72	ug/m3			06/29/12 04:10	1.41
1,3-Butadiene	0.62	U	0.62	0.62	ug/m3			06/29/12 04:10	1.41
Bromomethane	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41
Chloroethane	1.9	U	1.9	1.9	ug/m3			06/29/12 04:10	1.41
Bromoethene(Vinyl Bromide)	1.2	U	1.2	1.2	ug/m3			06/29/12 04:10	1.41
Trichlorofluoromethane	**1.6**		1.6	1.6	ug/m3			06/29/12 04:10	1.41
Freon TF	2.2	U	2.2	2.2	ug/m3			06/29/12 04:10	1.41
1,1-Dichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41
Acetone	17	U	17	17	ug/m3			06/29/12 04:10	1.41
Isopropyl alcohol	17	U	17	17	ug/m3			06/29/12 04:10	1.41
Carbon disulfide	2.2	U	2.2	2.2	ug/m3			06/29/12 04:10	1.41
3-Chloropropene	2.2	U	2.2	2.2	ug/m3			06/29/12 04:10	1.41
Methylene Chloride	**4.3**		2.4	2.4	ug/m3			06/29/12 04:10	1.41
tert-Butyl alcohol	21	U	21	21	ug/m3			06/29/12 04:10	1.41
Methyl tert-butyl ether	1.0	U	1.0	1.0	ug/m3			06/29/12 04:10	1.41
trans-1,2-Dichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41
n-Hexane	0.99	U	0.99	0.99	ug/m3			06/29/12 04:10	1.41
1,1-Dichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41
Methyl Ethyl Ketone	**2.5**		2.1	2.1	ug/m3			06/29/12 04:10	1.41
cis-1,2-Dichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, UPWIND

Lab Sample ID: 200-11505-1

Date Collected: 06/26/12 09:49
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41
Chloroform	1.4	U	1.4	1.4	ug/m3			06/29/12 04:10	1.41
Tetrahydrofuran	21	U	21	21	ug/m3			06/29/12 04:10	1.41
1,1,1-Trichloroethane	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
Cyclohexane	0.97	U	0.97	0.97	ug/m3			06/29/12 04:10	1.41
Carbon tetrachloride	1.8	U	1.8	1.8	ug/m3			06/29/12 04:10	1.41
2,2,4-Trimethylpentane	1.3	U	1.3	1.3	ug/m3			06/29/12 04:10	1.41
Benzene	0.90	U	0.90	0.90	ug/m3			06/29/12 04:10	1.41
1,2-Dichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 04:10	1.41
n-Heptane	1.2	U	1.2	1.2	ug/m3			06/29/12 04:10	1.41
Trichloroethene	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
Methyl methacrylate	2.9	U	2.9	2.9	ug/m3			06/29/12 04:10	1.41
1,2-Dichloropropane	1.3	U	1.3	1.3	ug/m3			06/29/12 04:10	1.41
1,4-Dioxane	25	U	25	25	ug/m3			06/29/12 04:10	1.41
Bromodichloromethane	1.9	U	1.9	1.9	ug/m3			06/29/12 04:10	1.41
cis-1,3-Dichloropropene	1.3	U	1.3	1.3	ug/m3			06/29/12 04:10	1.41
methyl isobutyl ketone	2.9	U	2.9	2.9	ug/m3			06/29/12 04:10	1.41
Toluene	**8.8**		1.1	1.1	ug/m3			06/29/12 04:10	1.41
trans-1,3-Dichloropropene	1.3	U	1.3	1.3	ug/m3			06/29/12 04:10	1.41
1,1,2-Trichloroethane	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
Tetrachloroethene	1.9	U	1.9	1.9	ug/m3			06/29/12 04:10	1.41
Methyl Butyl Ketone (2-Hexanone)	2.9	U	2.9	2.9	ug/m3			06/29/12 04:10	1.41
Dibromochloromethane	2.4	U	2.4	2.4	ug/m3			06/29/12 04:10	1.41
1,2-Dibromoethane	2.2	U	2.2	2.2	ug/m3			06/29/12 04:10	1.41
Chlorobenzene	1.3	U	1.3	1.3	ug/m3			06/29/12 04:10	1.41
Ethylbenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 04:10	1.41
m,p-Xylene	3.1	U	3.1	3.1	ug/m3			06/29/12 04:10	1.41
Xylene, o-	1.2	U	1.2	1.2	ug/m3			06/29/12 04:10	1.41
Xylene (total)	**1.7**		1.2	1.2	ug/m3			06/29/12 04:10	1.41
Styrene	1.2	U	1.2	1.2	ug/m3			06/29/12 04:10	1.41
Bromoform	2.9	U	2.9	2.9	ug/m3			06/29/12 04:10	1.41
Cumene	1.4	U	1.4	1.4	ug/m3			06/29/12 04:10	1.41
1,1,2,2-Tetrachloroethane	1.9	U	1.9	1.9	ug/m3			06/29/12 04:10	1.41
n-Propylbenzene	1.4	U	1.4	1.4	ug/m3			06/29/12 04:10	1.41
4-Ethyltoluene	1.4	U	1.4	1.4	ug/m3			06/29/12 04:10	1.41
1,3,5-Trimethylbenzene	1.4	U	1.4	1.4	ug/m3			06/29/12 04:10	1.41
2-Chlorotoluene	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
tert-Butylbenzene	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
1,2,4-Trimethylbenzene	1.4	U	1.4	1.4	ug/m3			06/29/12 04:10	1.41
sec-Butylbenzene	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
4-Isopropyltoluene	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
1,3-Dichlorobenzene	1.7	U	1.7	1.7	ug/m3			06/29/12 04:10	1.41
1,4-Dichlorobenzene	1.7	U	1.7	1.7	ug/m3			06/29/12 04:10	1.41
Benzyl chloride	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
n-Butylbenzene	1.5	U	1.5	1.5	ug/m3			06/29/12 04:10	1.41
1,2-Dichlorobenzene	1.7	U	1.7	1.7	ug/m3			06/29/12 04:10	1.41
1,2,4-Trichlorobenzene	5.2	U	5.2	5.2	ug/m3			06/29/12 04:10	1.41
Hexachlorobutadiene	3.0	U	3.0	3.0	ug/m3			06/29/12 04:10	1.41
Naphthalene	3.7	U	3.7	3.7	ug/m3			06/29/12 04:10	1.41

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, UPWIND

Lab Sample ID: 200-11505-1

Date Collected: 06/26/12 09:49
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ppb v/v					06/29/12 04:10	1.41

Client Sample ID: BLDG. NO. 1, DOWNWIND 1

Lab Sample ID: 200-11505-2

Date Collected: 06/26/12 09:47
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Freon 22	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
1,2-Dichlorotetrafluoroethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Chloromethane	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
n-Butane	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Vinyl chloride	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,3-Butadiene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Bromomethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Chloroethane	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Bromoethene(Vinyl Bromide)	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Trichlorofluoromethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Freon TF	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,1-Dichloroethene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Acetone	9.4	U	9.4	9.4	ppb v/v			06/29/12 05:02	1.88
Isopropyl alcohol	9.4	U	9.4	9.4	ppb v/v			06/29/12 05:02	1.88
Carbon disulfide	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
3-Chloropropene	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Methylene Chloride	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
tert-Butyl alcohol	9.4	U	9.4	9.4	ppb v/v			06/29/12 05:02	1.88
Methyl tert-butyl ether	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
trans-1,2-Dichloroethene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
n-Hexane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,1-Dichloroethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Methyl Ethyl Ketone	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
cis-1,2-Dichloroethene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,2-Dichloroethene, Total	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Chloroform	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Tetrahydrofuran	9.4	U	9.4	9.4	ppb v/v			06/29/12 05:02	1.88
1,1,1-Trichloroethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Cyclohexane	**0.46**		0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Carbon tetrachloride	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
2,2,4-Trimethylpentane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Benzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,2-Dichloroethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
n-Heptane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Trichloroethene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Methyl methacrylate	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
1,2-Dichloropropane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,4-Dioxane	9.4	U	9.4	9.4	ppb v/v			06/29/12 05:02	1.88
Bromodichloromethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
cis-1,3-Dichloropropene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
methyl isobutyl ketone	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, DOWNWIND 1

Lab Sample ID: 200-11505-2

Date Collected: 06/26/12 09:47
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.76**		0.38	0.38	ppb v/v			06/29/12 05:02	1.88
trans-1,3-Dichloropropene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,1,2-Trichloroethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Tetrachloroethene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Methyl Butyl Ketone (2-Hexanone)	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Dibromochloromethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,2-Dibromoethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Chlorobenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Ethylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
m,p-Xylene	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Xylene, o-	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Xylene (total)	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Styrene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Bromoform	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Cumene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,1,2,2-Tetrachloroethane	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
n-Propylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
4-Ethyltoluene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,3,5-Trimethylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
2-Chlorotoluene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
tert-Butylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,2,4-Trimethylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
sec-Butylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
4-Isopropyltoluene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,3-Dichlorobenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,4-Dichlorobenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Benzyl chloride	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
n-Butylbenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,2-Dichlorobenzene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
1,2,4-Trichlorobenzene	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88
Hexachlorobutadiene	0.38	U	0.38	0.38	ppb v/v			06/29/12 05:02	1.88
Naphthalene	0.94	U	0.94	0.94	ppb v/v			06/29/12 05:02	1.88

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	4.6	U	4.6	4.6	ug/m3			06/29/12 05:02	1.88
Freon 22	3.3	U	3.3	3.3	ug/m3			06/29/12 05:02	1.88
1,2-Dichlorotetrafluoroethane	2.6	U	2.6	2.6	ug/m3			06/29/12 05:02	1.88
Chloromethane	1.9	U	1.9	1.9	ug/m3			06/29/12 05:02	1.88
n-Butane	2.2	U	2.2	2.2	ug/m3			06/29/12 05:02	1.88
Vinyl chloride	0.96	U	0.96	0.96	ug/m3			06/29/12 05:02	1.88
1,3-Butadiene	0.83	U	0.83	0.83	ug/m3			06/29/12 05:02	1.88
Bromomethane	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
Chloroethane	2.5	U	2.5	2.5	ug/m3			06/29/12 05:02	1.88
Bromoethene(Vinyl Bromide)	1.6	U	1.6	1.6	ug/m3			06/29/12 05:02	1.88
Trichlorofluoromethane	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
Freon TF	2.9	U	2.9	2.9	ug/m3			06/29/12 05:02	1.88
1,1-Dichloroethene	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
Acetone	22	U	22	22	ug/m3			06/29/12 05:02	1.88
Isopropyl alcohol	23	U	23	23	ug/m3			06/29/12 05:02	1.88
Carbon disulfide	2.9	U	2.9	2.9	ug/m3			06/29/12 05:02	1.88
3-Chloropropene	2.9	U	2.9	2.9	ug/m3			06/29/12 05:02	1.88

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, DOWNWIND 1

Lab Sample ID: 200-11505-2

Date Collected: 06/26/12 09:47
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	3.3	U	3.3	3.3	ug/m3			06/29/12 05:02	1.88
tert-Butyl alcohol	28	U	28	28	ug/m3			06/29/12 05:02	1.88
Methyl tert-butyl ether	1.4	U	1.4	1.4	ug/m3			06/29/12 05:02	1.88
trans-1,2-Dichloroethene	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
n-Hexane	1.3	U	1.3	1.3	ug/m3			06/29/12 05:02	1.88
1,1-Dichloroethane	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
Methyl Ethyl Ketone	2.8	U	2.8	2.8	ug/m3			06/29/12 05:02	1.88
cis-1,2-Dichloroethene	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
1,2-Dichloroethene, Total	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
Chloroform	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
Tetrahydrofuran	28	U	28	28	ug/m3			06/29/12 05:02	1.88
1,1,1-Trichloroethane	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
Cyclohexane	**1.6**		1.3	1.3	ug/m3			06/29/12 05:02	1.88
Carbon tetrachloride	2.4	U	2.4	2.4	ug/m3			06/29/12 05:02	1.88
2,2,4-Trimethylpentane	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
Benzene	1.2	U	1.2	1.2	ug/m3			06/29/12 05:02	1.88
1,2-Dichloroethane	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
n-Heptane	1.5	U	1.5	1.5	ug/m3			06/29/12 05:02	1.88
Trichloroethene	2.0	U	2.0	2.0	ug/m3			06/29/12 05:02	1.88
Methyl methacrylate	3.8	U	3.8	3.8	ug/m3			06/29/12 05:02	1.88
1,2-Dichloropropane	1.7	U	1.7	1.7	ug/m3			06/29/12 05:02	1.88
1,4-Dioxane	34	U	34	34	ug/m3			06/29/12 05:02	1.88
Bromodichloromethane	2.5	U	2.5	2.5	ug/m3			06/29/12 05:02	1.88
cis-1,3-Dichloropropene	1.7	U	1.7	1.7	ug/m3			06/29/12 05:02	1.88
methyl isobutyl ketone	3.9	U	3.9	3.9	ug/m3			06/29/12 05:02	1.88
Toluene	**2.9**		1.4	1.4	ug/m3			06/29/12 05:02	1.88
trans-1,3-Dichloropropene	1.7	U	1.7	1.7	ug/m3			06/29/12 05:02	1.88
1,1,2-Trichloroethane	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
Tetrachloroethene	2.6	U	2.6	2.6	ug/m3			06/29/12 05:02	1.88
Methyl Butyl Ketone (2-Hexanone)	3.9	U	3.9	3.9	ug/m3			06/29/12 05:02	1.88
Dibromochloromethane	3.2	U	3.2	3.2	ug/m3			06/29/12 05:02	1.88
1,2-Dibromoethane	2.9	U	2.9	2.9	ug/m3			06/29/12 05:02	1.88
Chlorobenzene	1.7	U	1.7	1.7	ug/m3			06/29/12 05:02	1.88
Ethylbenzene	1.6	U	1.6	1.6	ug/m3			06/29/12 05:02	1.88
m,p-Xylene	4.1	U	4.1	4.1	ug/m3			06/29/12 05:02	1.88
Xylene, o-	1.6	U	1.6	1.6	ug/m3			06/29/12 05:02	1.88
Xylene (total)	1.6	U	1.6	1.6	ug/m3			06/29/12 05:02	1.88
Styrene	1.6	U	1.6	1.6	ug/m3			06/29/12 05:02	1.88
Bromoform	3.9	U	3.9	3.9	ug/m3			06/29/12 05:02	1.88
Cumene	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
1,1,2,2-Tetrachloroethane	2.6	U	2.6	2.6	ug/m3			06/29/12 05:02	1.88
n-Propylbenzene	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
4-Ethyltoluene	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
1,3,5-Trimethylbenzene	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
2-Chlorotoluene	1.9	U	1.9	1.9	ug/m3			06/29/12 05:02	1.88
tert-Butylbenzene	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
1,2,4-Trimethylbenzene	1.8	U	1.8	1.8	ug/m3			06/29/12 05:02	1.88
sec-Butylbenzene	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
4-Isopropyltoluene	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
1,3-Dichlorobenzene	2.3	U	2.3	2.3	ug/m3			06/29/12 05:02	1.88

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, DOWNWIND 1

Lab Sample ID: 200-11505-2

Date Collected: 06/26/12 09:47
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	2.3	U	2.3	2.3	ug/m3			06/29/12 05:02	1.88
Benzyl chloride	1.9	U	1.9	1.9	ug/m3			06/29/12 05:02	1.88
n-Butylbenzene	2.1	U	2.1	2.1	ug/m3			06/29/12 05:02	1.88
1,2-Dichlorobenzene	2.3	U	2.3	2.3	ug/m3			06/29/12 05:02	1.88
1,2,4-Trichlorobenzene	7.0	U	7.0	7.0	ug/m3			06/29/12 05:02	1.88
Hexachlorobutadiene	4.0	U	4.0	4.0	ug/m3			06/29/12 05:02	1.88
Naphthalene	4.9	U	4.9	4.9	ug/m3			06/29/12 05:02	1.88

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/29/12 05:02*	*1.88*

Client Sample ID: BLDG. NO. 1, INTERIOR

Lab Sample ID: 200-11505-3

Date Collected: 06/26/12 09:46
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Freon 22	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
1,2-Dichlorotetrafluoroethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Chloromethane	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
n-Butane	**32**		26	26	ppb v/v			06/29/12 11:34	52.8
Vinyl chloride	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,3-Butadiene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Bromomethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Chloroethane	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Bromoethene(Vinyl Bromide)	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Trichlorofluoromethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Freon TF	**47**		11	11	ppb v/v			06/29/12 11:34	52.8
1,1-Dichloroethene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Isopropyl alcohol	260	U	260	260	ppb v/v			06/29/12 11:34	52.8
Carbon disulfide	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
3-Chloropropene	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Methylene Chloride	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
tert-Butyl alcohol	260	U	260	260	ppb v/v			06/29/12 11:34	52.8
Methyl tert-butyl ether	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
trans-1,2-Dichloroethene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
n-Hexane	**55**		11	11	ppb v/v			06/29/12 11:34	52.8
1,1-Dichloroethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Methyl Ethyl Ketone	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
cis-1,2-Dichloroethene	**44**		11	11	ppb v/v			06/29/12 11:34	52.8
1,2-Dichloroethene, Total	**44**		11	11	ppb v/v			06/29/12 11:34	52.8
Chloroform	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Tetrahydrofuran	260	U	260	260	ppb v/v			06/29/12 11:34	52.8
1,1,1-Trichloroethane	**11**		11	11	ppb v/v			06/29/12 11:34	52.8
Carbon tetrachloride	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
2,2,4-Trimethylpentane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Benzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,2-Dichloroethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, INTERIOR

Lab Sample ID: 200-11505-3

Date Collected: 06/26/12 09:46
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Trichloroethene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Methyl methacrylate	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
1,2-Dichloropropane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,4-Dioxane	260	U	260	260	ppb v/v			06/29/12 11:34	52.8
Bromodichloromethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
cis-1,3-Dichloropropene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
methyl isobutyl ketone	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Toluene	**18**		11	11	ppb v/v			06/29/12 11:34	52.8
trans-1,3-Dichloropropene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,1,2-Trichloroethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Tetrachloroethene	**23**		11	11	ppb v/v			06/29/12 11:34	52.8
Methyl Butyl Ketone (2-Hexanone)	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Dibromochloromethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,2-Dibromoethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Chlorobenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Ethylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
m,p-Xylene	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Xylene, o-	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Xylene (total)	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Styrene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Bromoform	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Cumene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,1,2,2-Tetrachloroethane	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
n-Propylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
4-Ethyltoluene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,3,5-Trimethylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
2-Chlorotoluene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
tert-Butylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,2,4-Trimethylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
sec-Butylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
4-Isopropyltoluene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,3-Dichlorobenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,4-Dichlorobenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Benzyl chloride	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
n-Butylbenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,2-Dichlorobenzene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
1,2,4-Trichlorobenzene	26	U	26	26	ppb v/v			06/29/12 11:34	52.8
Hexachlorobutadiene	11	U	11	11	ppb v/v			06/29/12 11:34	52.8
Naphthalene	26	U	26	26	ppb v/v			06/29/12 11:34	52.8

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	130	U	130	130	ug/m3			06/29/12 11:34	52.8
Freon 22	93	U	93	93	ug/m3			06/29/12 11:34	52.8
1,2-Dichlorotetrafluoroethane	74	U	74	74	ug/m3			06/29/12 11:34	52.8
Chloromethane	55	U	55	55	ug/m3			06/29/12 11:34	52.8
n-Butane	**77**		63	63	ug/m3			06/29/12 11:34	52.8
Vinyl chloride	27	U	27	27	ug/m3			06/29/12 11:34	52.8
1,3-Butadiene	23	U	23	23	ug/m3			06/29/12 11:34	52.8
Bromomethane	41	U	41	41	ug/m3			06/29/12 11:34	52.8
Chloroethane	70	U	70	70	ug/m3			06/29/12 11:34	52.8

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, INTERIOR

Lab Sample ID: 200-11505-3

Date Collected: 06/26/12 09:46
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	46	U	46	46	ug/m3			06/29/12 11:34	52.8
Trichlorofluoromethane	59	U	59	59	ug/m3			06/29/12 11:34	52.8
Freon TF	**360**		81	81	ug/m3			06/29/12 11:34	52.8
1,1-Dichloroethene	42	U	42	42	ug/m3			06/29/12 11:34	52.8
Isopropyl alcohol	650	U	650	650	ug/m3			06/29/12 11:34	52.8
Carbon disulfide	82	U	82	82	ug/m3			06/29/12 11:34	52.8
3-Chloropropene	83	U	83	83	ug/m3			06/29/12 11:34	52.8
Methylene Chloride	92	U	92	92	ug/m3			06/29/12 11:34	52.8
tert-Butyl alcohol	800	U	800	800	ug/m3			06/29/12 11:34	52.8
Methyl tert-butyl ether	38	U	38	38	ug/m3			06/29/12 11:34	52.8
trans-1,2-Dichloroethene	42	U	42	42	ug/m3			06/29/12 11:34	52.8
n-Hexane	**190**		37	37	ug/m3			06/29/12 11:34	52.8
1,1-Dichloroethane	43	U	43	43	ug/m3			06/29/12 11:34	52.8
Methyl Ethyl Ketone	78	U	78	78	ug/m3			06/29/12 11:34	52.8
cis-1,2-Dichloroethene	**170**		42	42	ug/m3			06/29/12 11:34	52.8
1,2-Dichloroethene, Total	**170**		42	42	ug/m3			06/29/12 11:34	52.8
Chloroform	52	U	52	52	ug/m3			06/29/12 11:34	52.8
Tetrahydrofuran	780	U	780	780	ug/m3			06/29/12 11:34	52.8
1,1,1-Trichloroethane	**62**		58	58	ug/m3			06/29/12 11:34	52.8
Carbon tetrachloride	66	U	66	66	ug/m3			06/29/12 11:34	52.8
2,2,4-Trimethylpentane	49	U	49	49	ug/m3			06/29/12 11:34	52.8
Benzene	34	U	34	34	ug/m3			06/29/12 11:34	52.8
1,2-Dichloroethane	43	U	43	43	ug/m3			06/29/12 11:34	52.8
n-Heptane	43	U	43	43	ug/m3			06/29/12 11:34	52.8
Trichloroethene	57	U	57	57	ug/m3			06/29/12 11:34	52.8
Methyl methacrylate	110	U	110	110	ug/m3			06/29/12 11:34	52.8
1,2-Dichloropropane	49	U	49	49	ug/m3			06/29/12 11:34	52.8
1,4-Dioxane	950	U	950	950	ug/m3			06/29/12 11:34	52.8
Bromodichloromethane	71	U	71	71	ug/m3			06/29/12 11:34	52.8
cis-1,3-Dichloropropene	48	U	48	48	ug/m3			06/29/12 11:34	52.8
methyl isobutyl ketone	110	U	110	110	ug/m3			06/29/12 11:34	52.8
Toluene	**66**		40	40	ug/m3			06/29/12 11:34	52.8
trans-1,3-Dichloropropene	48	U	48	48	ug/m3			06/29/12 11:34	52.8
1,1,2-Trichloroethane	58	U	58	58	ug/m3			06/29/12 11:34	52.8
Tetrachloroethene	**150**		72	72	ug/m3			06/29/12 11:34	52.8
Methyl Butyl Ketone (2-Hexanone)	110	U	110	110	ug/m3			06/29/12 11:34	52.8
Dibromochloromethane	90	U	90	90	ug/m3			06/29/12 11:34	52.8
1,2-Dibromoethane	81	U	81	81	ug/m3			06/29/12 11:34	52.8
Chlorobenzene	49	U	49	49	ug/m3			06/29/12 11:34	52.8
Ethylbenzene	46	U	46	46	ug/m3			06/29/12 11:34	52.8
m,p-Xylene	110	U	110	110	ug/m3			06/29/12 11:34	52.8
Xylene, o-	46	U	46	46	ug/m3			06/29/12 11:34	52.8
Xylene (total)	46	U	46	46	ug/m3			06/29/12 11:34	52.8
Styrene	45	U	45	45	ug/m3			06/29/12 11:34	52.8
Bromoform	110	U	110	110	ug/m3			06/29/12 11:34	52.8
Cumene	52	U	52	52	ug/m3			06/29/12 11:34	52.8
1,1,2,2-Tetrachloroethane	72	U	72	72	ug/m3			06/29/12 11:34	52.8
n-Propylbenzene	52	U	52	52	ug/m3			06/29/12 11:34	52.8
4-Ethyltoluene	52	U	52	52	ug/m3			06/29/12 11:34	52.8
1,3,5-Trimethylbenzene	52	U	52	52	ug/m3			06/29/12 11:34	52.8

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, INTERIOR

Lab Sample ID: 200-11505-3

Date Collected: 06/26/12 09:46
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	55	U	55	55	ug/m3			06/29/12 11:34	52.8
tert-Butylbenzene	58	U	58	58	ug/m3			06/29/12 11:34	52.8
1,2,4-Trimethylbenzene	52	U	52	52	ug/m3			06/29/12 11:34	52.8
sec-Butylbenzene	58	U	58	58	ug/m3			06/29/12 11:34	52.8
4-Isopropyltoluene	58	U	58	58	ug/m3			06/29/12 11:34	52.8
1,3-Dichlorobenzene	63	U	63	63	ug/m3			06/29/12 11:34	52.8
1,4-Dichlorobenzene	63	U	63	63	ug/m3			06/29/12 11:34	52.8
Benzyl chloride	55	U	55	55	ug/m3			06/29/12 11:34	52.8
n-Butylbenzene	58	U	58	58	ug/m3			06/29/12 11:34	52.8
1,2-Dichlorobenzene	63	U	63	63	ug/m3			06/29/12 11:34	52.8
1,2,4-Trichlorobenzene	200	U	200	200	ug/m3			06/29/12 11:34	52.8
Hexachlorobutadiene	110	U	110	110	ug/m3			06/29/12 11:34	52.8
Naphthalene	140	U	140	140	ug/m3			06/29/12 11:34	52.8

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Propane	*1100*	*J N*	*ppb v/v*		*3.53*	*74-98-6*		*06/29/12 11:34*	*52.8*
Unknown	*55*	*J*	*ppb v/v*		*3.98*			*06/29/12 11:34*	*52.8*
Butane, 2,3-dimethyl-	*250*	*J N*	*ppb v/v*		*7.76*	*79-29-8*		*06/29/12 11:34*	*52.8*
Pentane, 2-methyl-	*1500*	*J N*	*ppb v/v*		*7.83*	*107-83-5*		*06/29/12 11:34*	*52.8*
Pentane, 3-methyl-	*500*	*J N*	*ppb v/v*		*8.23*	*96-14-0*		*06/29/12 11:34*	*52.8*

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5000**	**D**	1800	1800	ppb v/v			06/29/12 12:23	352
Cyclohexane	**3600**	**D**	70	70	ppb v/v			06/29/12 12:23	352

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**12000**	**D**	4200	4200	ug/m3			06/29/12 12:23	352
Cyclohexane	**12000**	**D**	240	240	ug/m3			06/29/12 12:23	352

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Propane	*1600*	*D J N*	*ppb v/v*		*3.54*	*74-98-6*		*06/29/12 12:23*	*352*
Pentane, 2-methyl-	*2000*	*D J N*	*ppb v/v*		*7.82*	*107-83-5*		*06/29/12 12:23*	*352*
Pentane, 3-methyl-	*630*	*D J N*	*ppb v/v*		*8.23*	*96-14-0*		*06/29/12 12:23*	*352*

Client Sample ID: BLDG. NO. 1, DOWNWIND 2

Lab Sample ID: 200-11505-4

Date Collected: 06/26/12 09:48
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.74**		0.50	0.50	ppb v/v			06/29/12 05:54	1
Freon 22	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Chloromethane	**0.76**		0.50	0.50	ppb v/v			06/29/12 05:54	1
n-Butane	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, DOWNWIND 2

Lab Sample ID: 200-11505-4

Date Collected: 06/26/12 09:48
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**0.28**		0.20	0.20	ppb v/v			06/29/12 05:54	1
Freon TF	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Acetone	**6.1**		5.0	5.0	ppb v/v			06/29/12 05:54	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 05:54	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Methylene Chloride	**1.1**		0.50	0.50	ppb v/v			06/29/12 05:54	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 05:54	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
n-Hexane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Methyl Ethyl Ketone	**0.50**		0.50	0.50	ppb v/v			06/29/12 05:54	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			06/29/12 05:54	1
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Cyclohexane	**0.33**		0.20	0.20	ppb v/v			06/29/12 05:54	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Benzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
n-Heptane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Trichloroethene	**0.67**		0.20	0.20	ppb v/v			06/29/12 05:54	1
Methyl methacrylate	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			06/29/12 05:54	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Toluene	**1.1**		0.20	0.20	ppb v/v			06/29/12 05:54	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Tetrachloroethene	**0.48**		0.20	0.20	ppb v/v			06/29/12 05:54	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Ethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
m,p-Xylene	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Xylene (total)	**0.33**		0.20	0.20	ppb v/v			06/29/12 05:54	1
Styrene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Cumene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
n-Propylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, DOWNWIND 2

Lab Sample ID: 200-11505-4

Date Collected: 06/26/12 09:48
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
tert-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
sec-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
4-Isopropyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Benzyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
n-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 05:54	1
Naphthalene	0.50	U	0.50	0.50	ppb v/v			06/29/12 05:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**3.7**		2.5	2.5	ug/m3			06/29/12 05:54	1
Freon 22	1.8	U	1.8	1.8	ug/m3			06/29/12 05:54	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 05:54	1
Chloromethane	**1.6**		1.0	1.0	ug/m3			06/29/12 05:54	1
n-Butane	1.2	U	1.2	1.2	ug/m3			06/29/12 05:54	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			06/29/12 05:54	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			06/29/12 05:54	1
Bromomethane	0.78	U	0.78	0.78	ug/m3			06/29/12 05:54	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			06/29/12 05:54	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			06/29/12 05:54	1
Trichlorofluoromethane	**1.6**		1.1	1.1	ug/m3			06/29/12 05:54	1
Freon TF	1.5	U	1.5	1.5	ug/m3			06/29/12 05:54	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 05:54	1
Acetone	**15**		12	12	ug/m3			06/29/12 05:54	1
Isopropyl alcohol	12	U	12	12	ug/m3			06/29/12 05:54	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			06/29/12 05:54	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			06/29/12 05:54	1
Methylene Chloride	**3.7**		1.7	1.7	ug/m3			06/29/12 05:54	1
tert-Butyl alcohol	15	U	15	15	ug/m3			06/29/12 05:54	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			06/29/12 05:54	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 05:54	1
n-Hexane	0.70	U	0.70	0.70	ug/m3			06/29/12 05:54	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 05:54	1
Methyl Ethyl Ketone	**1.5**		1.5	1.5	ug/m3			06/29/12 05:54	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 05:54	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.79	ug/m3			06/29/12 05:54	1
Chloroform	0.98	U	0.98	0.98	ug/m3			06/29/12 05:54	1
Tetrahydrofuran	15	U	15	15	ug/m3			06/29/12 05:54	1
1,1,1-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 05:54	1
Cyclohexane	**1.2**		0.69	0.69	ug/m3			06/29/12 05:54	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			06/29/12 05:54	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			06/29/12 05:54	1
Benzene	0.64	U	0.64	0.64	ug/m3			06/29/12 05:54	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 05:54	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			06/29/12 05:54	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, DOWNWIND 2

Lab Sample ID: 200-11505-4

Date Collected: 06/26/12 09:48
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**3.6**		1.1	1.1	ug/m3			06/29/12 05:54	1
Methyl methacrylate	2.0	U	2.0	2.0	ug/m3			06/29/12 05:54	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			06/29/12 05:54	1
1,4-Dioxane	18	U	18	18	ug/m3			06/29/12 05:54	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			06/29/12 05:54	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 05:54	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			06/29/12 05:54	1
Toluene	**4.0**		0.75	0.75	ug/m3			06/29/12 05:54	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 05:54	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 05:54	1
Tetrachloroethene	**3.3**		1.4	1.4	ug/m3			06/29/12 05:54	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			06/29/12 05:54	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			06/29/12 05:54	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			06/29/12 05:54	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			06/29/12 05:54	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			06/29/12 05:54	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			06/29/12 05:54	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			06/29/12 05:54	1
Xylene (total)	**1.4**		0.87	0.87	ug/m3			06/29/12 05:54	1
Styrene	0.85	U	0.85	0.85	ug/m3			06/29/12 05:54	1
Bromoform	2.1	U	2.1	2.1	ug/m3			06/29/12 05:54	1
Cumene	0.98	U	0.98	0.98	ug/m3			06/29/12 05:54	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 05:54	1
n-Propylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 05:54	1
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			06/29/12 05:54	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 05:54	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			06/29/12 05:54	1
tert-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 05:54	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 05:54	1
sec-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 05:54	1
4-Isopropyltoluene	1.1	U	1.1	1.1	ug/m3			06/29/12 05:54	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 05:54	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 05:54	1
Benzyl chloride	1.0	U	1.0	1.0	ug/m3			06/29/12 05:54	1
n-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 05:54	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 05:54	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			06/29/12 05:54	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			06/29/12 05:54	1
Naphthalene	2.6	U	2.6	2.6	ug/m3			06/29/12 05:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/29/12 05:54*	*1*

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, ADJACENT

Lab Sample ID: 200-11505-5

Date Collected: 06/26/12 12:00
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.79**		0.50	0.50	ppb v/v			06/29/12 06:47	1
Freon 22	**0.60**		0.50	0.50	ppb v/v			06/29/12 06:47	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Chloromethane	**0.86**		0.50	0.50	ppb v/v			06/29/12 06:47	1
n-Butane	**0.51**		0.50	0.50	ppb v/v			06/29/12 06:47	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Trichlorofluoromethane	**0.31**		0.20	0.20	ppb v/v			06/29/12 06:47	1
Freon TF	**0.24**		0.20	0.20	ppb v/v			06/29/12 06:47	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Acetone	**8.0**		5.0	5.0	ppb v/v			06/29/12 06:47	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 06:47	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
Methylene Chloride	**2.8**		0.50	0.50	ppb v/v			06/29/12 06:47	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 06:47	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
n-Hexane	**0.27**		0.20	0.20	ppb v/v			06/29/12 06:47	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Methyl Ethyl Ketone	**0.98**		0.50	0.50	ppb v/v			06/29/12 06:47	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			06/29/12 06:47	1
1,1,1-Trichloroethane	**0.32**		0.20	0.20	ppb v/v			06/29/12 06:47	1
Cyclohexane	**0.37**		0.20	0.20	ppb v/v			06/29/12 06:47	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Benzene	**0.23**		0.20	0.20	ppb v/v			06/29/12 06:47	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
n-Heptane	**0.39**		0.20	0.20	ppb v/v			06/29/12 06:47	1
Trichloroethene	**0.64**		0.20	0.20	ppb v/v			06/29/12 06:47	1
Methyl methacrylate	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			06/29/12 06:47	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
Toluene	**3.4**		0.20	0.20	ppb v/v			06/29/12 06:47	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, ADJACENT

Lab Sample ID: 200-11505-5

Date Collected: 06/26/12 12:00
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.22**		0.20	0.20	ppb v/v			06/29/12 06:47	1
m,p-Xylene	**0.60**		0.50	0.50	ppb v/v			06/29/12 06:47	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Xylene (total)	**0.77**		0.20	0.20	ppb v/v			06/29/12 06:47	1
Styrene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Cumene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
n-Propylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
tert-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
sec-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
4-Isopropyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Benzyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
n-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 06:47	1
Naphthalene	0.50	U	0.50	0.50	ppb v/v			06/29/12 06:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**3.9**		2.5	2.5	ug/m3			06/29/12 06:47	1
Freon 22	**2.1**		1.8	1.8	ug/m3			06/29/12 06:47	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 06:47	1
Chloromethane	**1.8**		1.0	1.0	ug/m3			06/29/12 06:47	1
n-Butane	**1.2**		1.2	1.2	ug/m3			06/29/12 06:47	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			06/29/12 06:47	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			06/29/12 06:47	1
Bromomethane	0.78	U	0.78	0.78	ug/m3			06/29/12 06:47	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			06/29/12 06:47	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			06/29/12 06:47	1
Trichlorofluoromethane	**1.7**		1.1	1.1	ug/m3			06/29/12 06:47	1
Freon TF	**1.9**		1.5	1.5	ug/m3			06/29/12 06:47	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 06:47	1
Acetone	**19**		12	12	ug/m3			06/29/12 06:47	1
Isopropyl alcohol	12	U	12	12	ug/m3			06/29/12 06:47	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			06/29/12 06:47	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			06/29/12 06:47	1
Methylene Chloride	**9.8**		1.7	1.7	ug/m3			06/29/12 06:47	1
tert-Butyl alcohol	15	U	15	15	ug/m3			06/29/12 06:47	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			06/29/12 06:47	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 06:47	1
n-Hexane	**0.95**		0.70	0.70	ug/m3			06/29/12 06:47	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 06:47	1
Methyl Ethyl Ketone	**2.9**		1.5	1.5	ug/m3			06/29/12 06:47	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 06:47	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, ADJACENT

Lab Sample ID: 200-11505-5

Date Collected: 06/26/12 12:00
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	0.79	U	0.79	0.79	ug/m3			06/29/12 06:47	1
Chloroform	0.98	U	0.98	0.98	ug/m3			06/29/12 06:47	1
Tetrahydrofuran	15	U	15	15	ug/m3			06/29/12 06:47	1
1,1,1-Trichloroethane	**1.7**		1.1	1.1	ug/m3			06/29/12 06:47	1
Cyclohexane	**1.3**		0.69	0.69	ug/m3			06/29/12 06:47	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			06/29/12 06:47	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			06/29/12 06:47	1
Benzene	**0.75**		0.64	0.64	ug/m3			06/29/12 06:47	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 06:47	1
n-Heptane	**1.6**		0.82	0.82	ug/m3			06/29/12 06:47	1
Trichloroethene	**3.4**		1.1	1.1	ug/m3			06/29/12 06:47	1
Methyl methacrylate	2.0	U	2.0	2.0	ug/m3			06/29/12 06:47	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			06/29/12 06:47	1
1,4-Dioxane	18	U	18	18	ug/m3			06/29/12 06:47	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			06/29/12 06:47	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 06:47	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			06/29/12 06:47	1
Toluene	**13**		0.75	0.75	ug/m3			06/29/12 06:47	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 06:47	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 06:47	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			06/29/12 06:47	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			06/29/12 06:47	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			06/29/12 06:47	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			06/29/12 06:47	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			06/29/12 06:47	1
Ethylbenzene	**0.97**		0.87	0.87	ug/m3			06/29/12 06:47	1
m,p-Xylene	**2.6**		2.2	2.2	ug/m3			06/29/12 06:47	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			06/29/12 06:47	1
Xylene (total)	**3.3**		0.87	0.87	ug/m3			06/29/12 06:47	1
Styrene	0.85	U	0.85	0.85	ug/m3			06/29/12 06:47	1
Bromoform	2.1	U	2.1	2.1	ug/m3			06/29/12 06:47	1
Cumene	0.98	U	0.98	0.98	ug/m3			06/29/12 06:47	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 06:47	1
n-Propylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 06:47	1
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			06/29/12 06:47	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 06:47	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			06/29/12 06:47	1
tert-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 06:47	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 06:47	1
sec-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 06:47	1
4-Isopropyltoluene	1.1	U	1.1	1.1	ug/m3			06/29/12 06:47	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 06:47	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 06:47	1
Benzyl chloride	1.0	U	1.0	1.0	ug/m3			06/29/12 06:47	1
n-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 06:47	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 06:47	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			06/29/12 06:47	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			06/29/12 06:47	1
Naphthalene	2.6	U	2.6	2.6	ug/m3			06/29/12 06:47	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, ADJACENT

Lab Sample ID: 200-11505-5

Date Collected: 06/26/12 12:00
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ppb v/v					06/29/12 06:47	1

Client Sample ID: TANK NO. 5, UPWIND

Lab Sample ID: 200-11505-6

Date Collected: 06/26/12 12:01
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.77**		0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Freon 22	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
1,2-Dichlorotetrafluoroethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Chloromethane	**0.87**		0.67	0.67	ppb v/v			06/29/12 07:39	1.33
n-Butane	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Vinyl chloride	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,3-Butadiene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Bromomethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Chloroethane	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Bromoethene(Vinyl Bromide)	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Trichlorofluoromethane	**0.30**		0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Freon TF	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,1-Dichloroethene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Acetone	**7.8**		6.7	6.7	ppb v/v			06/29/12 07:39	1.33
Isopropyl alcohol	6.7	U	6.7	6.7	ppb v/v			06/29/12 07:39	1.33
Carbon disulfide	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
3-Chloropropene	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Methylene Chloride	**2.4**		0.67	0.67	ppb v/v			06/29/12 07:39	1.33
tert-Butyl alcohol	6.7	U	6.7	6.7	ppb v/v			06/29/12 07:39	1.33
Methyl tert-butyl ether	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
trans-1,2-Dichloroethene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
n-Hexane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,1-Dichloroethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Methyl Ethyl Ketone	**0.89**		0.67	0.67	ppb v/v			06/29/12 07:39	1.33
cis-1,2-Dichloroethene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,2-Dichloroethene, Total	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Chloroform	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Tetrahydrofuran	6.7	U	6.7	6.7	ppb v/v			06/29/12 07:39	1.33
1,1,1-Trichloroethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Cyclohexane	**0.65**		0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Carbon tetrachloride	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
2,2,4-Trimethylpentane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Benzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,2-Dichloroethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
n-Heptane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Trichloroethene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Methyl methacrylate	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
1,2-Dichloropropane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,4-Dioxane	6.7	U	6.7	6.7	ppb v/v			06/29/12 07:39	1.33
Bromodichloromethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
cis-1,3-Dichloropropene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
methyl isobutyl ketone	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, UPWIND
Date Collected: 06/26/12 12:01
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

Lab Sample ID: 200-11505-6
Matrix: Air

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**3.7**		0.27	0.27	ppb v/v			06/29/12 07:39	1.33
trans-1,3-Dichloropropene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,1,2-Trichloroethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Tetrachloroethene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Methyl Butyl Ketone (2-Hexanone)	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Dibromochloromethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,2-Dibromoethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Chlorobenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Ethylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
m,p-Xylene	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Xylene, o-	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Xylene (total)	**0.58**		0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Styrene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Bromoform	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Cumene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
n-Propylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
4-Ethyltoluene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,3,5-Trimethylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
2-Chlorotoluene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
tert-Butylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,2,4-Trimethylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
sec-Butylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
4-Isopropyltoluene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,3-Dichlorobenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,4-Dichlorobenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Benzyl chloride	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
n-Butylbenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,2-Dichlorobenzene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
1,2,4-Trichlorobenzene	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33
Hexachlorobutadiene	0.27	U	0.27	0.27	ppb v/v			06/29/12 07:39	1.33
Naphthalene	0.67	U	0.67	0.67	ppb v/v			06/29/12 07:39	1.33

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**3.8**		3.3	3.3	ug/m3			06/29/12 07:39	1.33
Freon 22	2.4	U	2.4	2.4	ug/m3			06/29/12 07:39	1.33
1,2-Dichlorotetrafluoroethane	1.9	U	1.9	1.9	ug/m3			06/29/12 07:39	1.33
Chloromethane	**1.8**		1.4	1.4	ug/m3			06/29/12 07:39	1.33
n-Butane	1.6	U	1.6	1.6	ug/m3			06/29/12 07:39	1.33
Vinyl chloride	0.68	U	0.68	0.68	ug/m3			06/29/12 07:39	1.33
1,3-Butadiene	0.59	U	0.59	0.59	ug/m3			06/29/12 07:39	1.33
Bromomethane	1.0	U	1.0	1.0	ug/m3			06/29/12 07:39	1.33
Chloroethane	1.8	U	1.8	1.8	ug/m3			06/29/12 07:39	1.33
Bromoethene(Vinyl Bromide)	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
Trichlorofluoromethane	**1.7**		1.5	1.5	ug/m3			06/29/12 07:39	1.33
Freon TF	2.0	U	2.0	2.0	ug/m3			06/29/12 07:39	1.33
1,1-Dichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
Acetone	**19**		16	16	ug/m3			06/29/12 07:39	1.33
Isopropyl alcohol	16	U	16	16	ug/m3			06/29/12 07:39	1.33
Carbon disulfide	2.1	U	2.1	2.1	ug/m3			06/29/12 07:39	1.33
3-Chloropropene	2.1	U	2.1	2.1	ug/m3			06/29/12 07:39	1.33

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, UPWIND

Lab Sample ID: 200-11505-6

Date Collected: 06/26/12 12:01
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**8.3**		2.3	2.3	ug/m3			06/29/12 07:39	1.33
tert-Butyl alcohol	20	U	20	20	ug/m3			06/29/12 07:39	1.33
Methyl tert-butyl ether	0.96	U	0.96	0.96	ug/m3			06/29/12 07:39	1.33
trans-1,2-Dichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
n-Hexane	0.94	U	0.94	0.94	ug/m3			06/29/12 07:39	1.33
1,1-Dichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
Methyl Ethyl Ketone	**2.6**		2.0	2.0	ug/m3			06/29/12 07:39	1.33
cis-1,2-Dichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
1,2-Dichloroethene, Total	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
Chloroform	1.3	U	1.3	1.3	ug/m3			06/29/12 07:39	1.33
Tetrahydrofuran	20	U	20	20	ug/m3			06/29/12 07:39	1.33
1,1,1-Trichloroethane	1.5	U	1.5	1.5	ug/m3			06/29/12 07:39	1.33
Cyclohexane	**2.2**		0.92	0.92	ug/m3			06/29/12 07:39	1.33
Carbon tetrachloride	1.7	U	1.7	1.7	ug/m3			06/29/12 07:39	1.33
2,2,4-Trimethylpentane	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
Benzene	0.85	U	0.85	0.85	ug/m3			06/29/12 07:39	1.33
1,2-Dichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
n-Heptane	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
Trichloroethene	1.4	U	1.4	1.4	ug/m3			06/29/12 07:39	1.33
Methyl methacrylate	2.7	U	2.7	2.7	ug/m3			06/29/12 07:39	1.33
1,2-Dichloropropane	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
1,4-Dioxane	24	U	24	24	ug/m3			06/29/12 07:39	1.33
Bromodichloromethane	1.8	U	1.8	1.8	ug/m3			06/29/12 07:39	1.33
cis-1,3-Dichloropropene	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
methyl isobutyl ketone	2.7	U	2.7	2.7	ug/m3			06/29/12 07:39	1.33
Toluene	**14**		1.0	1.0	ug/m3			06/29/12 07:39	1.33
trans-1,3-Dichloropropene	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
1,1,2-Trichloroethane	1.5	U	1.5	1.5	ug/m3			06/29/12 07:39	1.33
Tetrachloroethene	1.8	U	1.8	1.8	ug/m3			06/29/12 07:39	1.33
Methyl Butyl Ketone (2-Hexanone)	2.7	U	2.7	2.7	ug/m3			06/29/12 07:39	1.33
Dibromochloromethane	2.3	U	2.3	2.3	ug/m3			06/29/12 07:39	1.33
1,2-Dibromoethane	2.0	U	2.0	2.0	ug/m3			06/29/12 07:39	1.33
Chlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
Ethylbenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
m,p-Xylene	2.9	U	2.9	2.9	ug/m3			06/29/12 07:39	1.33
Xylene, o-	1.2	U	1.2	1.2	ug/m3			06/29/12 07:39	1.33
Xylene (total)	**2.5**		1.2	1.2	ug/m3			06/29/12 07:39	1.33
Styrene	1.1	U	1.1	1.1	ug/m3			06/29/12 07:39	1.33
Bromoform	2.7	U	2.7	2.7	ug/m3			06/29/12 07:39	1.33
Cumene	1.3	U	1.3	1.3	ug/m3			06/29/12 07:39	1.33
1,1,2,2-Tetrachloroethane	1.8	U	1.8	1.8	ug/m3			06/29/12 07:39	1.33
n-Propylbenzene	1.3	U	1.3	1.3	ug/m3			06/29/12 07:39	1.33
4-Ethyltoluene	1.3	U	1.3	1.3	ug/m3			06/29/12 07:39	1.33
1,3,5-Trimethylbenzene	1.3	U	1.3	1.3	ug/m3			06/29/12 07:39	1.33
2-Chlorotoluene	1.4	U	1.4	1.4	ug/m3			06/29/12 07:39	1.33
tert-Butylbenzene	1.5	U	1.5	1.5	ug/m3			06/29/12 07:39	1.33
1,2,4-Trimethylbenzene	1.3	U	1.3	1.3	ug/m3			06/29/12 07:39	1.33
sec-Butylbenzene	1.5	U	1.5	1.5	ug/m3			06/29/12 07:39	1.33
4-Isopropyltoluene	1.5	U	1.5	1.5	ug/m3			06/29/12 07:39	1.33
1,3-Dichlorobenzene	1.6	U	1.6	1.6	ug/m3			06/29/12 07:39	1.33

Client Sample ID: TANK NO. 5, UPWIND

Lab Sample ID: 200-11505-6

Date Collected: 06/26/12 12:01
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.6	U	1.6	1.6	ug/m3			06/29/12 07:39	1.33
Benzyl chloride	1.4	U	1.4	1.4	ug/m3			06/29/12 07:39	1.33
n-Butylbenzene	1.5	U	1.5	1.5	ug/m3			06/29/12 07:39	1.33
1,2-Dichlorobenzene	1.6	U	1.6	1.6	ug/m3			06/29/12 07:39	1.33
1,2,4-Trichlorobenzene	4.9	U	4.9	4.9	ug/m3			06/29/12 07:39	1.33
Hexachlorobutadiene	2.8	U	2.8	2.8	ug/m3			06/29/12 07:39	1.33
Naphthalene	3.5	U	3.5	3.5	ug/m3			06/29/12 07:39	1.33

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/29/12 07:39*	*1.33*

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1

Lab Sample ID: 200-11505-7

Date Collected: 06/26/12 12:05
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.78**		0.50	0.50	ppb v/v			06/29/12 08:32	1
Freon 22	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Chloromethane	**0.77**		0.50	0.50	ppb v/v			06/29/12 08:32	1
n-Butane	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Trichlorofluoromethane	**0.30**		0.20	0.20	ppb v/v			06/29/12 08:32	1
Freon TF	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Acetone	**6.0**		5.0	5.0	ppb v/v			06/29/12 08:32	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 08:32	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Methylene Chloride	**0.76**		0.50	0.50	ppb v/v			06/29/12 08:32	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 08:32	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
n-Hexane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Methyl Ethyl Ketone	**0.66**		0.50	0.50	ppb v/v			06/29/12 08:32	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			06/29/12 08:32	1
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Cyclohexane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1

Lab Sample ID: 200-11505-7

Date Collected: 06/26/12 12:05
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
n-Heptane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Trichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Methyl methacrylate	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			06/29/12 08:32	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Toluene	**0.60**		0.20	0.20	ppb v/v			06/29/12 08:32	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Ethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
m,p-Xylene	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Xylene (total)	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Styrene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Cumene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
n-Propylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
tert-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
sec-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
4-Isopropyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Benzyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
n-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 08:32	1
Naphthalene	0.50	U	0.50	0.50	ppb v/v			06/29/12 08:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**3.8**		2.5	2.5	ug/m3			06/29/12 08:32	1
Freon 22	1.8	U	1.8	1.8	ug/m3			06/29/12 08:32	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 08:32	1
Chloromethane	**1.6**		1.0	1.0	ug/m3			06/29/12 08:32	1
n-Butane	1.2	U	1.2	1.2	ug/m3			06/29/12 08:32	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			06/29/12 08:32	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			06/29/12 08:32	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1

Lab Sample ID: 200-11505-7

Date Collected: 06/26/12 12:05
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.78	U	0.78	0.78	ug/m3			06/29/12 08:32	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			06/29/12 08:32	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			06/29/12 08:32	1
Trichlorofluoromethane	**1.7**		1.1	1.1	ug/m3			06/29/12 08:32	1
Freon TF	1.5	U	1.5	1.5	ug/m3			06/29/12 08:32	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 08:32	1
Acetone	**14**		12	12	ug/m3			06/29/12 08:32	1
Isopropyl alcohol	12	U	12	12	ug/m3			06/29/12 08:32	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			06/29/12 08:32	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			06/29/12 08:32	1
Methylene Chloride	**2.6**		1.7	1.7	ug/m3			06/29/12 08:32	1
tert-Butyl alcohol	15	U	15	15	ug/m3			06/29/12 08:32	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			06/29/12 08:32	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 08:32	1
n-Hexane	0.70	U	0.70	0.70	ug/m3			06/29/12 08:32	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 08:32	1
Methyl Ethyl Ketone	**1.9**		1.5	1.5	ug/m3			06/29/12 08:32	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 08:32	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.79	ug/m3			06/29/12 08:32	1
Chloroform	0.98	U	0.98	0.98	ug/m3			06/29/12 08:32	1
Tetrahydrofuran	15	U	15	15	ug/m3			06/29/12 08:32	1
1,1,1-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			06/29/12 08:32	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			06/29/12 08:32	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			06/29/12 08:32	1
Benzene	0.64	U	0.64	0.64	ug/m3			06/29/12 08:32	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 08:32	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			06/29/12 08:32	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
Methyl methacrylate	2.0	U	2.0	2.0	ug/m3			06/29/12 08:32	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			06/29/12 08:32	1
1,4-Dioxane	18	U	18	18	ug/m3			06/29/12 08:32	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			06/29/12 08:32	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 08:32	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			06/29/12 08:32	1
Toluene	**2.3**		0.75	0.75	ug/m3			06/29/12 08:32	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 08:32	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			06/29/12 08:32	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			06/29/12 08:32	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			06/29/12 08:32	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			06/29/12 08:32	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			06/29/12 08:32	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			06/29/12 08:32	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			06/29/12 08:32	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			06/29/12 08:32	1
Xylene (total)	0.87	U	0.87	0.87	ug/m3			06/29/12 08:32	1
Styrene	0.85	U	0.85	0.85	ug/m3			06/29/12 08:32	1
Bromoform	2.1	U	2.1	2.1	ug/m3			06/29/12 08:32	1
Cumene	0.98	U	0.98	0.98	ug/m3			06/29/12 08:32	1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1

Lab Sample ID: 200-11505-7

Date Collected: 06/26/12 12:05
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 08:32	1
n-Propylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 08:32	1
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			06/29/12 08:32	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 08:32	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			06/29/12 08:32	1
tert-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 08:32	1
sec-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
4-Isopropyltoluene	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 08:32	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 08:32	1
Benzyl chloride	1.0	U	1.0	1.0	ug/m3			06/29/12 08:32	1
n-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 08:32	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 08:32	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			06/29/12 08:32	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			06/29/12 08:32	1
Naphthalene	2.6	U	2.6	2.6	ug/m3			06/29/12 08:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/29/12 08:32*	*1*

Client Sample ID: TANK NO. 5, DOWNWIND NO. 2

Lab Sample ID: 200-11505-8

Date Collected: 06/26/12 12:03
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.83**		0.50	0.50	ppb v/v			06/29/12 09:24	1
Freon 22	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Chloromethane	**0.84**		0.50	0.50	ppb v/v			06/29/12 09:24	1
n-Butane	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Trichlorofluoromethane	**0.31**		0.20	0.20	ppb v/v			06/29/12 09:24	1
Freon TF	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Acetone	**5.8**		5.0	5.0	ppb v/v			06/29/12 09:24	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 09:24	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
Methylene Chloride	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/29/12 09:24	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
n-Hexane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 2

Lab Sample ID: 200-11505-8

Date Collected: 06/26/12 12:03
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Methyl Ethyl Ketone	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			06/29/12 09:24	1
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Cyclohexane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Benzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
n-Heptane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Trichloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Methyl methacrylate	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			06/29/12 09:24	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
Toluene	**0.25**		0.20	0.20	ppb v/v			06/29/12 09:24	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Ethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
m,p-Xylene	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Xylene (total)	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Styrene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Cumene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
n-Propylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
tert-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
sec-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
4-Isopropyltoluene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Benzyl chloride	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
n-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 2
Lab Sample ID: 200-11505-8
Date Collected: 06/26/12 12:03
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			06/29/12 09:24	1
Naphthalene	0.50	U	0.50	0.50	ppb v/v			06/29/12 09:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**4.1**		2.5	2.5	ug/m3			06/29/12 09:24	1
Freon 22	1.8	U	1.8	1.8	ug/m3			06/29/12 09:24	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 09:24	1
Chloromethane	**1.7**		1.0	1.0	ug/m3			06/29/12 09:24	1
n-Butane	1.2	U	1.2	1.2	ug/m3			06/29/12 09:24	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			06/29/12 09:24	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			06/29/12 09:24	1
Bromomethane	0.78	U	0.78	0.78	ug/m3			06/29/12 09:24	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			06/29/12 09:24	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			06/29/12 09:24	1
Trichlorofluoromethane	**1.8**		1.1	1.1	ug/m3			06/29/12 09:24	1
Freon TF	1.5	U	1.5	1.5	ug/m3			06/29/12 09:24	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 09:24	1
Acetone	**14**		12	12	ug/m3			06/29/12 09:24	1
Isopropyl alcohol	12	U	12	12	ug/m3			06/29/12 09:24	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			06/29/12 09:24	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			06/29/12 09:24	1
Methylene Chloride	1.7	U	1.7	1.7	ug/m3			06/29/12 09:24	1
tert-Butyl alcohol	15	U	15	15	ug/m3			06/29/12 09:24	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			06/29/12 09:24	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 09:24	1
n-Hexane	0.70	U	0.70	0.70	ug/m3			06/29/12 09:24	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 09:24	1
Methyl Ethyl Ketone	1.5	U	1.5	1.5	ug/m3			06/29/12 09:24	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/29/12 09:24	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.79	ug/m3			06/29/12 09:24	1
Chloroform	0.98	U	0.98	0.98	ug/m3			06/29/12 09:24	1
Tetrahydrofuran	15	U	15	15	ug/m3			06/29/12 09:24	1
1,1,1-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			06/29/12 09:24	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			06/29/12 09:24	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			06/29/12 09:24	1
Benzene	0.64	U	0.64	0.64	ug/m3			06/29/12 09:24	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/29/12 09:24	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			06/29/12 09:24	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
Methyl methacrylate	2.0	U	2.0	2.0	ug/m3			06/29/12 09:24	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			06/29/12 09:24	1
1,4-Dioxane	18	U	18	18	ug/m3			06/29/12 09:24	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			06/29/12 09:24	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 09:24	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			06/29/12 09:24	1
Toluene	**0.95**		0.75	0.75	ug/m3			06/29/12 09:24	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/29/12 09:24	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			06/29/12 09:24	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			06/29/12 09:24	1

Client Sample Results

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 2

Lab Sample ID: 200-11505-8

Date Collected: 06/26/12 12:03
Matrix: Air
Date Received: 06/28/12 11:18
Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			06/29/12 09:24	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			06/29/12 09:24	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			06/29/12 09:24	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			06/29/12 09:24	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			06/29/12 09:24	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			06/29/12 09:24	1
Xylene (total)	0.87	U	0.87	0.87	ug/m3			06/29/12 09:24	1
Styrene	0.85	U	0.85	0.85	ug/m3			06/29/12 09:24	1
Bromoform	2.1	U	2.1	2.1	ug/m3			06/29/12 09:24	1
Cumene	0.98	U	0.98	0.98	ug/m3			06/29/12 09:24	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			06/29/12 09:24	1
n-Propylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 09:24	1
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			06/29/12 09:24	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 09:24	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			06/29/12 09:24	1
tert-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/29/12 09:24	1
sec-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
4-Isopropyltoluene	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 09:24	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 09:24	1
Benzyl chloride	1.0	U	1.0	1.0	ug/m3			06/29/12 09:24	1
n-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/29/12 09:24	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/29/12 09:24	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			06/29/12 09:24	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			06/29/12 09:24	1
Naphthalene	2.6	U	2.6	2.6	ug/m3			06/29/12 09:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/29/12 09:24*	*1*

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-11505-1

SDG No.: 200-11505-1

Sample No.: ICIS 200-39475/7 Date Analyzed: 05/29/2012 21:02

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bkp007.d Heated Purge: (Y/N) N

Calibration ID: 15740

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		577718	9.14	2815908	10.55	2541070	14.68
UPPER LIMIT		808805	9.47	3942271	10.88	3557498	15.01
LOWER LIMIT		346631	8.81	1689545	10.22	1524642	14.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-39475/13		613456	9.14	2975141	10.55	2642092	14.68

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-11505-1

SDG No.: 200-11505-1

Sample No.: CCVIS 200-41164/3 Date Analyzed: 06/28/2012 12:18

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bkpj003.d Heated Purge: (Y/N) N

Calibration ID: 15740

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		492843	9.13	2484273	10.55	2200710	14.67
UPPER LIMIT		689980	9.46	3477982	10.88	3080994	15.00
LOWER LIMIT		295706	8.80	1490564	10.22	1320426	14.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-41164/4		475205	9.13	2393739	10.54	2106594	14.67
MB 200-41164/5		482857	9.13	2468280	10.54	2137457	14.67
200-11505-1	BLDG. NO. 1, UPWIND	392296	9.13	1977562	10.54	1704094	14.67
200-11505-2	BLDG. NO. 1, DOWNWIND 1	381279	9.13	1922930	10.54	1660789	14.67
200-11505-4	BLDG. NO. 1, DOWNWIND 2	385457	9.13	1952884	10.54	1703758	14.67
200-11505-5	TANK NO. 5, ADJACENT	356404	9.13	1773256	10.54	1525455	14.67
200-11505-6	TANK NO. 5, UPWIND	363830	9.13	1853259	10.54	1616445	14.67
200-11505-7	TANK NO. 5, DOWNWIND NO. 1	367247	9.13	1848129	10.54	1627952	14.67
200-11505-8	TANK NO. 5, DOWNWIND NO. 2	343006	9.13	1717430	10.54	1476231	14.67

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Sample ID: MB 200-41163/4
Matrix: Air
Analysis Batch: 41163

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Freon 22	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Chloromethane	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
n-Butane	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Trichlorofluoromethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Freon TF	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Acetone	5.0	U	5.0	5.0	ppb v/v			06/28/12 16:35	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/28/12 16:35	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Methylene Chloride	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/28/12 16:35	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
n-Hexane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Methyl Ethyl Ketone	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			06/28/12 16:35	1
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Cyclohexane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Benzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
n-Heptane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Trichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Methyl methacrylate	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			06/28/12 16:35	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Toluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1

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

Lab Sample ID: MB 200-41163/4
Matrix: Air
Analysis Batch: 41163

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Ethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
m,p-Xylene	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Xylene (total)	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Styrene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Cumene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
n-Propylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
tert-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
sec-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
4-Isopropyltoluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Benzyl chloride	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
n-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			06/28/12 16:35	1
Naphthalene	0.50	U	0.50	0.50	ppb v/v			06/28/12 16:35	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	2.5	ug/m3			06/28/12 16:35	1
Freon 22	1.8	U	1.8	1.8	ug/m3			06/28/12 16:35	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			06/28/12 16:35	1
Chloromethane	1.0	U	1.0	1.0	ug/m3			06/28/12 16:35	1
n-Butane	1.2	U	1.2	1.2	ug/m3			06/28/12 16:35	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			06/28/12 16:35	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			06/28/12 16:35	1
Bromomethane	0.78	U	0.78	0.78	ug/m3			06/28/12 16:35	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			06/28/12 16:35	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			06/28/12 16:35	1
Trichlorofluoromethane	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
Freon TF	1.5	U	1.5	1.5	ug/m3			06/28/12 16:35	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/28/12 16:35	1
Acetone	12	U	12	12	ug/m3			06/28/12 16:35	1
Isopropyl alcohol	12	U	12	12	ug/m3			06/28/12 16:35	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			06/28/12 16:35	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			06/28/12 16:35	1
Methylene Chloride	1.7	U	1.7	1.7	ug/m3			06/28/12 16:35	1
tert-Butyl alcohol	15	U	15	15	ug/m3			06/28/12 16:35	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			06/28/12 16:35	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/28/12 16:35	1
n-Hexane	0.70	U	0.70	0.70	ug/m3			06/28/12 16:35	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/28/12 16:35	1

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

Lab Sample ID: MB 200-41163/4
Matrix: Air
Analysis Batch: 41163

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	1.5	U	1.5	1.5	ug/m3			06/28/12 16:35	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/28/12 16:35	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.79	ug/m3			06/28/12 16:35	1
Chloroform	0.98	U	0.98	0.98	ug/m3			06/28/12 16:35	1
Tetrahydrofuran	15	U	15	15	ug/m3			06/28/12 16:35	1
1,1,1-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			06/28/12 16:35	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			06/28/12 16:35	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			06/28/12 16:35	1
Benzene	0.64	U	0.64	0.64	ug/m3			06/28/12 16:35	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/28/12 16:35	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			06/28/12 16:35	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
Methyl methacrylate	2.0	U	2.0	2.0	ug/m3			06/28/12 16:35	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			06/28/12 16:35	1
1,4-Dioxane	18	U	18	18	ug/m3			06/28/12 16:35	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			06/28/12 16:35	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/28/12 16:35	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			06/28/12 16:35	1
Toluene	0.75	U	0.75	0.75	ug/m3			06/28/12 16:35	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/28/12 16:35	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			06/28/12 16:35	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			06/28/12 16:35	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			06/28/12 16:35	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			06/28/12 16:35	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			06/28/12 16:35	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			06/28/12 16:35	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			06/28/12 16:35	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			06/28/12 16:35	1
Xylene (total)	0.87	U	0.87	0.87	ug/m3			06/28/12 16:35	1
Styrene	0.85	U	0.85	0.85	ug/m3			06/28/12 16:35	1
Bromoform	2.1	U	2.1	2.1	ug/m3			06/28/12 16:35	1
Cumene	0.98	U	0.98	0.98	ug/m3			06/28/12 16:35	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			06/28/12 16:35	1
n-Propylbenzene	0.98	U	0.98	0.98	ug/m3			06/28/12 16:35	1
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			06/28/12 16:35	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/28/12 16:35	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			06/28/12 16:35	1
tert-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/28/12 16:35	1
sec-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
4-Isopropyltoluene	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/28/12 16:35	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/28/12 16:35	1
Benzyl chloride	1.0	U	1.0	1.0	ug/m3			06/28/12 16:35	1
n-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/28/12 16:35	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/28/12 16:35	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			06/28/12 16:35	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			06/28/12 16:35	1

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

Lab Sample ID: MB 200-41163/4
Matrix: Air
Analysis Batch: 41163

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2.6	U	2.6	2.6	ug/m3			06/28/12 16:35	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/28/12 16:35*	*1*

Lab Sample ID: LCS 200-41163/3
Matrix: Air
Analysis Batch: 41163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	10.3		ppb v/v		103	70 - 130
Freon 22	10.0	9.38		ppb v/v		94	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.2		ppb v/v		102	70 - 130
Chloromethane	10.0	8.81		ppb v/v		88	70 - 130
n-Butane	10.0	8.78		ppb v/v		88	70 - 130
Vinyl chloride	10.0	9.17		ppb v/v		92	70 - 130
1,3-Butadiene	10.0	9.49		ppb v/v		95	70 - 130
Bromomethane	10.0	9.71		ppb v/v		97	70 - 130
Chloroethane	10.0	10.2		ppb v/v		102	70 - 130
Bromoethene(Vinyl Bromide)	10.0	10.4		ppb v/v		104	70 - 130
Trichlorofluoromethane	10.0	10.3		ppb v/v		103	70 - 130
Freon TF	10.0	11.0		ppb v/v		110	70 - 130
1,1-Dichloroethene	10.0	11.0		ppb v/v		110	70 - 130
Acetone	10.0	9.01		ppb v/v		90	70 - 130
Isopropyl alcohol	10.0	9.28		ppb v/v		93	70 - 130
Carbon disulfide	10.0	10.5		ppb v/v		105	70 - 130
3-Chloropropene	10.0	9.93		ppb v/v		99	70 - 130
Methylene Chloride	10.0	9.60		ppb v/v		96	70 - 130
tert-Butyl alcohol	10.0	9.87		ppb v/v		99	70 - 130
Methyl tert-butyl ether	10.0	10.1		ppb v/v		101	70 - 130
trans-1,2-Dichloroethene	10.0	9.61		ppb v/v		96	70 - 130
n-Hexane	10.0	9.48		ppb v/v		95	70 - 130
1,1-Dichloroethane	10.0	9.94		ppb v/v		99	70 - 130
Methyl Ethyl Ketone	10.0	9.78		ppb v/v		98	70 - 130
cis-1,2-Dichloroethene	10.0	10.2		ppb v/v		102	70 - 130
Chloroform	10.0	9.90		ppb v/v		99	70 - 130
Tetrahydrofuran	10.0	9.26		ppb v/v		93	70 - 130
1,1,1-Trichloroethane	10.0	10.7		ppb v/v		107	70 - 130
Cyclohexane	10.0	10.2		ppb v/v		102	70 - 130
Carbon tetrachloride	10.0	10.9		ppb v/v		109	70 - 130
2,2,4-Trimethylpentane	10.0	9.90		ppb v/v		99	70 - 130
Benzene	10.0	10.3		ppb v/v		103	70 - 130
1,2-Dichloroethane	10.0	11.1		ppb v/v		111	70 - 130
n-Heptane	10.0	9.69		ppb v/v		97	70 - 130
Trichloroethene	10.0	9.90		ppb v/v		99	70 - 130
Methyl methacrylate	10.0	9.56		ppb v/v		96	70 - 130
1,2-Dichloropropane	10.0	9.14		ppb v/v		91	70 - 130
1,4-Dioxane	10.0	8.93		ppb v/v		89	70 - 130
Bromodichloromethane	10.0	11.0		ppb v/v		111	70 - 130

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

Lab Sample ID: LCS 200-41163/3
Matrix: Air
Analysis Batch: 41163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	9.95		ppb v/v		100	70 - 130
methyl isobutyl ketone	10.0	9.68		ppb v/v		97	70 - 130
Toluene	10.0	9.42		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	10.0	9.92		ppb v/v		99	70 - 130
1,1,2-Trichloroethane	10.0	8.73		ppb v/v		87	70 - 130
Tetrachloroethene	10.0	10.4		ppb v/v		104	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	9.04		ppb v/v		90	70 - 130
Dibromochloromethane	10.0	11.2		ppb v/v		112	70 - 130
1,2-Dibromoethane	10.0	10.1		ppb v/v		101	70 - 130
Chlorobenzene	10.0	9.34		ppb v/v		93	70 - 130
Ethylbenzene	10.0	9.35		ppb v/v		94	70 - 130
m,p-Xylene	20.0	18.9		ppb v/v		94	70 - 130
Xylene, o-	10.0	9.93		ppb v/v		99	70 - 130
Styrene	10.0	10.5		ppb v/v		105	70 - 130
Bromoform	10.0	12.3		ppb v/v		123	70 - 130
Cumene	10.0	10.4		ppb v/v		104	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.48		ppb v/v		95	70 - 130
n-Propylbenzene	10.0	10.4		ppb v/v		104	70 - 130
4-Ethyltoluene	10.0	10.7		ppb v/v		107	70 - 130
1,3,5-Trimethylbenzene	10.0	9.98		ppb v/v		100	70 - 130
2-Chlorotoluene	10.0	10.1		ppb v/v		101	70 - 130
tert-Butylbenzene	10.0	10.6		ppb v/v		106	70 - 130
1,2,4-Trimethylbenzene	10.0	9.93		ppb v/v		99	70 - 130
sec-Butylbenzene	10.0	9.92		ppb v/v		99	70 - 130
4-Isopropyltoluene	10.0	10.5		ppb v/v		105	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ppb v/v		103	70 - 130
1,4-Dichlorobenzene	10.0	10.1		ppb v/v		101	70 - 130
Benzyl chloride	10.0	9.87		ppb v/v		99	70 - 130
n-Butylbenzene	10.0	9.90		ppb v/v		99	70 - 130
1,2-Dichlorobenzene	10.0	9.67		ppb v/v		97	70 - 130
1,2,4-Trichlorobenzene	10.0	9.66		ppb v/v		97	70 - 130
Hexachlorobutadiene	10.0	10.7		ppb v/v		107	70 - 130
Naphthalene	10.0	9.34		ppb v/v		93	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	51.0		ug/m3		103	70 - 130
Freon 22	35	33.2		ug/m3		94	70 - 130
1,2-Dichlorotetrafluoroethane	70	71.0		ug/m3		102	70 - 130
Chloromethane	21	18.2		ug/m3		88	70 - 130
n-Butane	24	20.9		ug/m3		88	70 - 130
Vinyl chloride	26	23.4		ug/m3		92	70 - 130
1,3-Butadiene	22	21.0		ug/m3		95	70 - 130
Bromomethane	39	37.7		ug/m3		97	70 - 130
Chloroethane	26	27.0		ug/m3		102	70 - 130
Bromoethene(Vinyl Bromide)	44	45.4		ug/m3		104	70 - 130
Trichlorofluoromethane	56	57.8		ug/m3		103	70 - 130
Freon TF	77	84.1		ug/m3		110	70 - 130
1,1-Dichloroethene	40	43.8		ug/m3		110	70 - 130
Acetone	24	21.4		ug/m3		90	70 - 130

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

Lab Sample ID: LCS 200-41163/3
Matrix: Air
Analysis Batch: 41163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl alcohol	25	22.8		ug/m3		93	70 - 130
Carbon disulfide	31	32.7		ug/m3		105	70 - 130
3-Chloropropene	31	31.1		ug/m3		99	70 - 130
Methylene Chloride	35	33.3		ug/m3		96	70 - 130
tert-Butyl alcohol	30	29.9		ug/m3		99	70 - 130
Methyl tert-butyl ether	36	36.3		ug/m3		101	70 - 130
trans-1,2-Dichloroethene	40	38.1		ug/m3		96	70 - 130
n-Hexane	35	33.4		ug/m3		95	70 - 130
1,1-Dichloroethane	40	40.2		ug/m3		99	70 - 130
Methyl Ethyl Ketone	29	28.8		ug/m3		98	70 - 130
cis-1,2-Dichloroethene	40	40.3		ug/m3		102	70 - 130
Chloroform	49	48.3		ug/m3		99	70 - 130
Tetrahydrofuran	29	27.3		ug/m3		93	70 - 130
1,1,1-Trichloroethane	55	58.3		ug/m3		107	70 - 130
Cyclohexane	34	35.0		ug/m3		102	70 - 130
Carbon tetrachloride	63	68.8		ug/m3		109	70 - 130
2,2,4-Trimethylpentane	47	46.3		ug/m3		99	70 - 130
Benzene	32	32.8		ug/m3		103	70 - 130
1,2-Dichloroethane	40	45.1		ug/m3		111	70 - 130
n-Heptane	41	39.7		ug/m3		97	70 - 130
Trichloroethene	54	53.2		ug/m3		99	70 - 130
Methyl methacrylate	41	39.1		ug/m3		96	70 - 130
1,2-Dichloropropane	46	42.3		ug/m3		91	70 - 130
1,4-Dioxane	36	32.2		ug/m3		89	70 - 130
Bromodichloromethane	67	74.0		ug/m3		111	70 - 130
cis-1,3-Dichloropropene	45	45.2		ug/m3		100	70 - 130
methyl isobutyl ketone	41	39.7		ug/m3		97	70 - 130
Toluene	38	35.5		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	45	45.0		ug/m3		99	70 - 130
1,1,2-Trichloroethane	55	47.6		ug/m3		87	70 - 130
Tetrachloroethene	68	70.5		ug/m3		104	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	37.1		ug/m3		90	70 - 130
Dibromochloromethane	85	95.1		ug/m3		112	70 - 130
1,2-Dibromoethane	77	77.4		ug/m3		101	70 - 130
Chlorobenzene	46	42.9		ug/m3		93	70 - 130
Ethylbenzene	43	40.6		ug/m3		94	70 - 130
m,p-Xylene	87	82.0		ug/m3		94	70 - 130
Xylene, o-	43	43.1		ug/m3		99	70 - 130
Styrene	43	44.7		ug/m3		105	70 - 130
Bromoform	100	128		ug/m3		123	70 - 130
Cumene	49	51.3		ug/m3		104	70 - 130
1,1,2,2-Tetrachloroethane	69	65.1		ug/m3		95	70 - 130
n-Propylbenzene	49	51.3		ug/m3		104	70 - 130
4-Ethyltoluene	49	52.6		ug/m3		107	70 - 130
1,3,5-Trimethylbenzene	49	49.1		ug/m3		100	70 - 130
2-Chlorotoluene	52	52.2		ug/m3		101	70 - 130
tert-Butylbenzene	55	58.3		ug/m3		106	70 - 130
1,2,4-Trimethylbenzene	49	48.8		ug/m3		99	70 - 130
sec-Butylbenzene	55	54.5		ug/m3		99	70 - 130

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

Lab Sample ID: LCS 200-41163/3
Matrix: Air
Analysis Batch: 41163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Isopropyltoluene	55	57.8		ug/m3		105	70 - 130
1,3-Dichlorobenzene	60	61.8		ug/m3		103	70 - 130
1,4-Dichlorobenzene	60	61.0		ug/m3		101	70 - 130
Benzyl chloride	52	51.1		ug/m3		99	70 - 130
n-Butylbenzene	55	54.3		ug/m3		99	70 - 130
1,2-Dichlorobenzene	60	58.2		ug/m3		97	70 - 130
1,2,4-Trichlorobenzene	74	71.7		ug/m3		97	70 - 130
Hexachlorobutadiene	110	114		ug/m3		107	70 - 130
Naphthalene	52	49.0		ug/m3		93	70 - 130

Lab Sample ID: MB 200-41164/5
Matrix: Air
Analysis Batch: 41164

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Freon 22	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Chloromethane	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
n-Butane	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Vinyl chloride	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,3-Butadiene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Bromomethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Chloroethane	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Trichlorofluoromethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Freon TF	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,1-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Acetone	5.0	U	5.0	5.0	ppb v/v			06/28/12 14:08	1
Isopropyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/28/12 14:08	1
Carbon disulfide	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
3-Chloropropene	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Methylene Chloride	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
tert-Butyl alcohol	5.0	U	5.0	5.0	ppb v/v			06/28/12 14:08	1
Methyl tert-butyl ether	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
n-Hexane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,1-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Methyl Ethyl Ketone	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Chloroform	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Tetrahydrofuran	5.0	U	5.0	5.0	ppb v/v			06/28/12 14:08	1
1,1,1-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Cyclohexane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Carbon tetrachloride	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Benzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,2-Dichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
n-Heptane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1

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

Lab Sample ID: MB 200-41164/5
Matrix: Air
Analysis Batch: 41164

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Methyl methacrylate	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
1,2-Dichloropropane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,4-Dioxane	5.0	U	5.0	5.0	ppb v/v			06/28/12 14:08	1
Bromodichloromethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
methyl isobutyl ketone	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Toluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,1,2-Trichloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Tetrachloroethene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Dibromochloromethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,2-Dibromoethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Chlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Ethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
m,p-Xylene	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Xylene, o-	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Xylene (total)	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Styrene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Bromoform	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Cumene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
n-Propylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
4-Ethyltoluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
2-Chlorotoluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
tert-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
sec-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
4-Isopropyltoluene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,3-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,4-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Benzyl chloride	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
n-Butylbenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,2-Dichlorobenzene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1
Hexachlorobutadiene	0.20	U	0.20	0.20	ppb v/v			06/28/12 14:08	1
Naphthalene	0.50	U	0.50	0.50	ppb v/v			06/28/12 14:08	1

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	2.5	ug/m3			06/28/12 14:08	1
Freon 22	1.8	U	1.8	1.8	ug/m3			06/28/12 14:08	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4	ug/m3			06/28/12 14:08	1
Chloromethane	1.0	U	1.0	1.0	ug/m3			06/28/12 14:08	1
n-Butane	1.2	U	1.2	1.2	ug/m3			06/28/12 14:08	1
Vinyl chloride	0.51	U	0.51	0.51	ug/m3			06/28/12 14:08	1
1,3-Butadiene	0.44	U	0.44	0.44	ug/m3			06/28/12 14:08	1
Bromomethane	0.78	U	0.78	0.78	ug/m3			06/28/12 14:08	1
Chloroethane	1.3	U	1.3	1.3	ug/m3			06/28/12 14:08	1

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

Lab Sample ID: MB 200-41164/5
Matrix: Air
Analysis Batch: 41164

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.87	ug/m3			06/28/12 14:08	1
Trichlorofluoromethane	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
Freon TF	1.5	U	1.5	1.5	ug/m3			06/28/12 14:08	1
1,1-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/28/12 14:08	1
Acetone	12	U	12	12	ug/m3			06/28/12 14:08	1
Isopropyl alcohol	12	U	12	12	ug/m3			06/28/12 14:08	1
Carbon disulfide	1.6	U	1.6	1.6	ug/m3			06/28/12 14:08	1
3-Chloropropene	1.6	U	1.6	1.6	ug/m3			06/28/12 14:08	1
Methylene Chloride	1.7	U	1.7	1.7	ug/m3			06/28/12 14:08	1
tert-Butyl alcohol	15	U	15	15	ug/m3			06/28/12 14:08	1
Methyl tert-butyl ether	0.72	U	0.72	0.72	ug/m3			06/28/12 14:08	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/28/12 14:08	1
n-Hexane	0.70	U	0.70	0.70	ug/m3			06/28/12 14:08	1
1,1-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/28/12 14:08	1
Methyl Ethyl Ketone	1.5	U	1.5	1.5	ug/m3			06/28/12 14:08	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.79	ug/m3			06/28/12 14:08	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.79	ug/m3			06/28/12 14:08	1
Chloroform	0.98	U	0.98	0.98	ug/m3			06/28/12 14:08	1
Tetrahydrofuran	15	U	15	15	ug/m3			06/28/12 14:08	1
1,1,1-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
Cyclohexane	0.69	U	0.69	0.69	ug/m3			06/28/12 14:08	1
Carbon tetrachloride	1.3	U	1.3	1.3	ug/m3			06/28/12 14:08	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.93	ug/m3			06/28/12 14:08	1
Benzene	0.64	U	0.64	0.64	ug/m3			06/28/12 14:08	1
1,2-Dichloroethane	0.81	U	0.81	0.81	ug/m3			06/28/12 14:08	1
n-Heptane	0.82	U	0.82	0.82	ug/m3			06/28/12 14:08	1
Trichloroethene	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
Methyl methacrylate	2.0	U	2.0	2.0	ug/m3			06/28/12 14:08	1
1,2-Dichloropropane	0.92	U	0.92	0.92	ug/m3			06/28/12 14:08	1
1,4-Dioxane	18	U	18	18	ug/m3			06/28/12 14:08	1
Bromodichloromethane	1.3	U	1.3	1.3	ug/m3			06/28/12 14:08	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/28/12 14:08	1
methyl isobutyl ketone	2.0	U	2.0	2.0	ug/m3			06/28/12 14:08	1
Toluene	0.75	U	0.75	0.75	ug/m3			06/28/12 14:08	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.91	ug/m3			06/28/12 14:08	1
1,1,2-Trichloroethane	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
Tetrachloroethene	1.4	U	1.4	1.4	ug/m3			06/28/12 14:08	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	2.0	ug/m3			06/28/12 14:08	1
Dibromochloromethane	1.7	U	1.7	1.7	ug/m3			06/28/12 14:08	1
1,2-Dibromoethane	1.5	U	1.5	1.5	ug/m3			06/28/12 14:08	1
Chlorobenzene	0.92	U	0.92	0.92	ug/m3			06/28/12 14:08	1
Ethylbenzene	0.87	U	0.87	0.87	ug/m3			06/28/12 14:08	1
m,p-Xylene	2.2	U	2.2	2.2	ug/m3			06/28/12 14:08	1
Xylene, o-	0.87	U	0.87	0.87	ug/m3			06/28/12 14:08	1
Xylene (total)	0.87	U	0.87	0.87	ug/m3			06/28/12 14:08	1
Styrene	0.85	U	0.85	0.85	ug/m3			06/28/12 14:08	1
Bromoform	2.1	U	2.1	2.1	ug/m3			06/28/12 14:08	1
Cumene	0.98	U	0.98	0.98	ug/m3			06/28/12 14:08	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4	ug/m3			06/28/12 14:08	1
n-Propylbenzene	0.98	U	0.98	0.98	ug/m3			06/28/12 14:08	1

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

Lab Sample ID: MB 200-41164/5
Matrix: Air
Analysis Batch: 41164

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	0.98	U	0.98	0.98	ug/m3			06/28/12 14:08	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/28/12 14:08	1
2-Chlorotoluene	1.0	U	1.0	1.0	ug/m3			06/28/12 14:08	1
tert-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.98	ug/m3			06/28/12 14:08	1
sec-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
4-Isopropyltoluene	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
1,3-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/28/12 14:08	1
1,4-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/28/12 14:08	1
Benzyl chloride	1.0	U	1.0	1.0	ug/m3			06/28/12 14:08	1
n-Butylbenzene	1.1	U	1.1	1.1	ug/m3			06/28/12 14:08	1
1,2-Dichlorobenzene	1.2	U	1.2	1.2	ug/m3			06/28/12 14:08	1
1,2,4-Trichlorobenzene	3.7	U	3.7	3.7	ug/m3			06/28/12 14:08	1
Hexachlorobutadiene	2.1	U	2.1	2.1	ug/m3			06/28/12 14:08	1
Naphthalene	2.6	U	2.6	2.6	ug/m3			06/28/12 14:08	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ppb v/v*					*06/28/12 14:08*	*1*

Lab Sample ID: LCS 200-41164/4
Matrix: Air
Analysis Batch: 41164

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	11.5		ppb v/v		115	70 - 130
Freon 22	10.0	11.9		ppb v/v		119	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	11.0		ppb v/v		110	70 - 130
Chloromethane	10.0	11.4		ppb v/v		114	70 - 130
n-Butane	10.0	11.9		ppb v/v		119	70 - 130
Vinyl chloride	10.0	10.8		ppb v/v		108	70 - 130
1,3-Butadiene	10.0	12.1		ppb v/v		121	70 - 130
Bromomethane	10.0	9.33		ppb v/v		93	70 - 130
Chloroethane	10.0	9.77		ppb v/v		98	70 - 130
Bromoethene(Vinyl Bromide)	10.0	9.59		ppb v/v		96	70 - 130
Trichlorofluoromethane	10.0	10.7		ppb v/v		107	70 - 130
Freon TF	10.0	11.4		ppb v/v		114	70 - 130
1,1-Dichloroethene	10.0	11.6		ppb v/v		116	70 - 130
Acetone	10.0	11.0		ppb v/v		110	70 - 130
Isopropyl alcohol	10.0	9.71		ppb v/v		97	70 - 130
Carbon disulfide	10.0	10.5		ppb v/v		105	70 - 130
3-Chloropropene	10.0	9.12		ppb v/v		91	70 - 130
Methylene Chloride	10.0	9.77		ppb v/v		98	70 - 130
tert-Butyl alcohol	10.0	10.7		ppb v/v		107	70 - 130
Methyl tert-butyl ether	10.0	11.4		ppb v/v		114	70 - 130
trans-1,2-Dichloroethene	10.0	10.3		ppb v/v		103	70 - 130
n-Hexane	10.0	9.75		ppb v/v		98	70 - 130
1,1-Dichloroethane	10.0	10.3		ppb v/v		103	70 - 130
Methyl Ethyl Ketone	10.0	10.5		ppb v/v		105	70 - 130
cis-1,2-Dichloroethene	10.0	10.9		ppb v/v		109	70 - 130

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

Lab Sample ID: LCS 200-41164/4
Matrix: Air
Analysis Batch: 41164

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	10.0	11.1		ppb v/v		111	70 - 130
Tetrahydrofuran	10.0	9.16		ppb v/v		92	70 - 130
1,1,1-Trichloroethane	10.0	11.3		ppb v/v		113	70 - 130
Cyclohexane	10.0	10.2		ppb v/v		102	70 - 130
Carbon tetrachloride	10.0	10.7		ppb v/v		107	70 - 130
2,2,4-Trimethylpentane	10.0	9.63		ppb v/v		96	70 - 130
Benzene	10.0	9.91		ppb v/v		99	70 - 130
1,2-Dichloroethane	10.0	11.0		ppb v/v		110	70 - 130
n-Heptane	10.0	8.99		ppb v/v		90	70 - 130
Trichloroethene	10.0	10.0		ppb v/v		100	70 - 130
Methyl methacrylate	10.0	10.4		ppb v/v		104	70 - 130
1,2-Dichloropropane	10.0	9.18		ppb v/v		92	70 - 130
1,4-Dioxane	10.0	9.29		ppb v/v		93	70 - 130
Bromodichloromethane	10.0	11.3		ppb v/v		113	70 - 130
cis-1,3-Dichloropropene	10.0	10.5		ppb v/v		105	70 - 130
methyl isobutyl ketone	10.0	9.88		ppb v/v		99	70 - 130
Toluene	10.0	10.2		ppb v/v		102	70 - 130
trans-1,3-Dichloropropene	10.0	10.7		ppb v/v		107	70 - 130
1,1,2-Trichloroethane	10.0	9.68		ppb v/v		97	70 - 130
Tetrachloroethene	10.0	9.80		ppb v/v		98	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	9.95		ppb v/v		100	70 - 130
Dibromochloromethane	10.0	11.1		ppb v/v		111	70 - 130
1,2-Dibromoethane	10.0	10.2		ppb v/v		102	70 - 130
Chlorobenzene	10.0	9.58		ppb v/v		96	70 - 130
Ethylbenzene	10.0	10.4		ppb v/v		104	70 - 130
m,p-Xylene	20.0	20.1		ppb v/v		101	70 - 130
Xylene, o-	10.0	10.2		ppb v/v		102	70 - 130
Styrene	10.0	10.7		ppb v/v		107	70 - 130
Bromoform	10.0	10.8		ppb v/v		108	70 - 130
Cumene	10.0	10.8		ppb v/v		108	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.57		ppb v/v		96	70 - 130
n-Propylbenzene	10.0	10.7		ppb v/v		107	70 - 130
4-Ethyltoluene	10.0	10.9		ppb v/v		109	70 - 130
1,3,5-Trimethylbenzene	10.0	10.5		ppb v/v		105	70 - 130
2-Chlorotoluene	10.0	10.6		ppb v/v		106	70 - 130
tert-Butylbenzene	10.0	10.6		ppb v/v		106	70 - 130
1,2,4-Trimethylbenzene	10.0	10.4		ppb v/v		104	70 - 130
sec-Butylbenzene	10.0	10.6		ppb v/v		106	70 - 130
4-Isopropyltoluene	10.0	10.6		ppb v/v		106	70 - 130
1,3-Dichlorobenzene	10.0	9.56		ppb v/v		96	70 - 130
1,4-Dichlorobenzene	10.0	9.52		ppb v/v		95	70 - 130
Benzyl chloride	10.0	11.0		ppb v/v		110	70 - 130
n-Butylbenzene	10.0	10.5		ppb v/v		105	70 - 130
1,2-Dichlorobenzene	10.0	9.37		ppb v/v		94	70 - 130
1,2,4-Trichlorobenzene	10.0	9.26		ppb v/v		93	70 - 130
Hexachlorobutadiene	10.0	10.0		ppb v/v		100	70 - 130
Naphthalene	10.0	9.63		ppb v/v		96	70 - 130

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

Lab Sample ID: LCS 200-41164/4
Matrix: Air
Analysis Batch: 41164

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	56.8		ug/m3		115	70 - 130
Freon 22	35	42.0		ug/m3		119	70 - 130
1,2-Dichlorotetrafluoroethane	70	76.6		ug/m3		110	70 - 130
Chloromethane	21	23.6		ug/m3		114	70 - 130
n-Butane	24	28.2		ug/m3		119	70 - 130
Vinyl chloride	26	27.7		ug/m3		108	70 - 130
1,3-Butadiene	22	26.8		ug/m3		121	70 - 130
Bromomethane	39	36.2		ug/m3		93	70 - 130
Chloroethane	26	25.8		ug/m3		98	70 - 130
Bromoethene(Vinyl Bromide)	44	41.9		ug/m3		96	70 - 130
Trichlorofluoromethane	56	60.2		ug/m3		107	70 - 130
Freon TF	77	87.2		ug/m3		114	70 - 130
1,1-Dichloroethene	40	46.0		ug/m3		116	70 - 130
Acetone	24	26.1		ug/m3		110	70 - 130
Isopropyl alcohol	25	23.9		ug/m3		97	70 - 130
Carbon disulfide	31	32.6		ug/m3		105	70 - 130
3-Chloropropene	31	28.6		ug/m3		91	70 - 130
Methylene Chloride	35	33.9		ug/m3		98	70 - 130
tert-Butyl alcohol	30	32.4		ug/m3		107	70 - 130
Methyl tert-butyl ether	36	41.1		ug/m3		114	70 - 130
trans-1,2-Dichloroethene	40	40.9		ug/m3		103	70 - 130
n-Hexane	35	34.4		ug/m3		98	70 - 130
1,1-Dichloroethane	40	41.8		ug/m3		103	70 - 130
Methyl Ethyl Ketone	29	31.0		ug/m3		105	70 - 130
cis-1,2-Dichloroethene	40	43.0		ug/m3		109	70 - 130
Chloroform	49	54.0		ug/m3		111	70 - 130
Tetrahydrofuran	29	27.0		ug/m3		92	70 - 130
1,1,1-Trichloroethane	55	61.7		ug/m3		113	70 - 130
Cyclohexane	34	35.0		ug/m3		102	70 - 130
Carbon tetrachloride	63	67.2		ug/m3		107	70 - 130
2,2,4-Trimethylpentane	47	45.0		ug/m3		96	70 - 130
Benzene	32	31.7		ug/m3		99	70 - 130
1,2-Dichloroethane	40	44.6		ug/m3		110	70 - 130
n-Heptane	41	36.8		ug/m3		90	70 - 130
Trichloroethene	54	53.8		ug/m3		100	70 - 130
Methyl methacrylate	41	42.6		ug/m3		104	70 - 130
1,2-Dichloropropane	46	42.4		ug/m3		92	70 - 130
1,4-Dioxane	36	33.5		ug/m3		93	70 - 130
Bromodichloromethane	67	75.8		ug/m3		113	70 - 130
cis-1,3-Dichloropropene	45	47.4		ug/m3		105	70 - 130
methyl isobutyl ketone	41	40.5		ug/m3		99	70 - 130
Toluene	38	38.3		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	45	48.6		ug/m3		107	70 - 130
1,1,2-Trichloroethane	55	52.8		ug/m3		97	70 - 130
Tetrachloroethene	68	66.4		ug/m3		98	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	40.8		ug/m3		100	70 - 130
Dibromochloromethane	85	94.3		ug/m3		111	70 - 130
1,2-Dibromoethane	77	78.0		ug/m3		102	70 - 130
Chlorobenzene	46	44.0		ug/m3		96	70 - 130

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

Lab Sample ID: LCS 200-41164/4
Matrix: Air
Analysis Batch: 41164

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	43	45.0		ug/m3		104	70 - 130
m,p-Xylene	87	87.3		ug/m3		101	70 - 130
Xylene, o-	43	44.3		ug/m3		102	70 - 130
Styrene	43	45.5		ug/m3		107	70 - 130
Bromoform	100	111		ug/m3		108	70 - 130
Cumene	49	52.9		ug/m3		108	70 - 130
1,1,2,2-Tetrachloroethane	69	65.7		ug/m3		96	70 - 130
n-Propylbenzene	49	52.4		ug/m3		107	70 - 130
4-Ethyltoluene	49	53.5		ug/m3		109	70 - 130
1,3,5-Trimethylbenzene	49	51.5		ug/m3		105	70 - 130
2-Chlorotoluene	52	54.8		ug/m3		106	70 - 130
tert-Butylbenzene	55	58.0		ug/m3		106	70 - 130
1,2,4-Trimethylbenzene	49	51.1		ug/m3		104	70 - 130
sec-Butylbenzene	55	58.0		ug/m3		106	70 - 130
4-Isopropyltoluene	55	58.2		ug/m3		106	70 - 130
1,3-Dichlorobenzene	60	57.5		ug/m3		96	70 - 130
1,4-Dichlorobenzene	60	57.2		ug/m3		95	70 - 130
Benzyl chloride	52	57.1		ug/m3		110	70 - 130
n-Butylbenzene	55	57.8		ug/m3		105	70 - 130
1,2-Dichlorobenzene	60	56.3		ug/m3		94	70 - 130
1,2,4-Trichlorobenzene	74	68.7		ug/m3		93	70 - 130
Hexachlorobutadiene	110	107		ug/m3		100	70 - 130
Naphthalene	52	50.5		ug/m3		96	70 - 130

QC Association Summary

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Air - GC/MS VOA

Analysis Batch: 41163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-11505-3	BLDG. NO. 1, INTERIOR	Total/NA	Air	TO-15	
200-11505-3 - DL	BLDG. NO. 1, INTERIOR	Total/NA	Air	TO-15	
LCS 200-41163/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-41163/4	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 41164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-11505-1	BLDG. NO. 1, UPWIND	Total/NA	Air	TO-15	
200-11505-2	BLDG. NO. 1, DOWNWIND 1	Total/NA	Air	TO-15	
200-11505-4	BLDG. NO. 1, DOWNWIND 2	Total/NA	Air	TO-15	
200-11505-5	TANK NO. 5, ADJACENT	Total/NA	Air	TO-15	
200-11505-6	TANK NO. 5, UPWIND	Total/NA	Air	TO-15	
200-11505-7	TANK NO. 5, DOWNWIND NO. 1	Total/NA	Air	TO-15	
200-11505-8	TANK NO. 5, DOWNWIND NO. 2	Total/NA	Air	TO-15	
LCS 200-41164/4	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-41164/5	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: BLDG. NO. 1, UPWIND — Lab Sample ID: 200-11505-1

Date Collected: 06/26/12 09:49 — **Matrix: Air**
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.41	41164	06/29/12 04:10	WRD	TAL BUR

Client Sample ID: BLDG. NO. 1, DOWNWIND 1 — Lab Sample ID: 200-11505-2

Date Collected: 06/26/12 09:47 — **Matrix: Air**
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.88	41164	06/29/12 05:02	WRD	TAL BUR

Client Sample ID: BLDG. NO. 1, INTERIOR — Lab Sample ID: 200-11505-3

Date Collected: 06/26/12 09:46 — **Matrix: Air**
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		52.8	41163	06/29/12 11:34	AHK	TAL BUR
Total/NA	Analysis	TO-15	DL	352	41163	06/29/12 12:23	AHK	TAL BUR

Client Sample ID: BLDG. NO. 1, DOWNWIND 2 — Lab Sample ID: 200-11505-4

Date Collected: 06/26/12 09:48 — **Matrix: Air**
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	41164	06/29/12 05:54	WRD	TAL BUR

Client Sample ID: TANK NO. 5, ADJACENT — Lab Sample ID: 200-11505-5

Date Collected: 06/26/12 12:00 — **Matrix: Air**
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	41164	06/29/12 06:47	WRD	TAL BUR

Client Sample ID: TANK NO. 5, UPWIND — Lab Sample ID: 200-11505-6

Date Collected: 06/26/12 12:01 — **Matrix: Air**
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.33	41164	06/29/12 07:39	WRD	TAL BUR

Lab Chronicle

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Client Sample ID: TANK NO. 5, DOWNWIND NO. 1

Lab Sample ID: 200-11505-7

Date Collected: 06/26/12 12:05
Matrix: Air
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	41164	06/29/12 08:32	WRD	TAL BUR

Client Sample ID: TANK NO. 5, DOWNWIND NO. 2

Lab Sample ID: 200-11505-8

Date Collected: 06/26/12 12:03
Matrix: Air
Date Received: 06/28/12 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	41164	06/29/12 09:24	WRD	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

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

Method Summary

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ESS Laboratory
Project/Site: General Chemical

TestAmerica Job ID: 200-11505-1
SDG: 200-11505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-11505-1	BLDG. NO. 1, UPWIND	Air	06/26/12 09:49	06/28/12 11:18
200-11505-2	BLDG. NO. 1, DOWNWIND 1	Air	06/26/12 09:47	06/28/12 11:18
200-11505-3	BLDG. NO. 1, INTERIOR	Air	06/26/12 09:46	06/28/12 11:18
200-11505-4	BLDG. NO. 1, DOWNWIND 2	Air	06/26/12 09:48	06/28/12 11:18
200-11505-5	TANK NO. 5, ADJACENT	Air	06/26/12 12:00	06/28/12 11:18
200-11505-6	TANK NO. 5, UPWIND	Air	06/26/12 12:01	06/28/12 11:18
200-11505-7	TANK NO. 5, DOWNWIND NO. 1	Air	06/26/12 12:05	06/28/12 11:18
200-11505-8	TANK NO. 5, DOWNWIND NO. 2	Air	06/26/12 12:03	06/28/12 11:18

Flow Controller (FC) Set Flow Rate and Pressure Gauge Leak Check Record

Pre-Shipment Check							Post-Sampling Check (PSC)						
Date Performed			Analyst	Temp (°C)	BP ("Hg)	FM ID	PSC is performed when pressure of a canister is not within criteria and the FC used for sampling was returned with the canister (in same shipment)						
6/21/12			JMW	22	29.2	09J40115							
FC ID	Sampling Time	Flow Rate	Control Gauge Initial ("Hg)	Control Gauge Final ("Hg)	FC Gauge Initial ("Hg)	FC Gauge Final ("Hg)	Flow Rate	Control Gauge Initial ("Hg)	Control Gauge Final ("Hg)	FC Gauge Initial ("Hg)	FC Gauge Final ("Hg)	PSC Code	Shipping Order
3778	1hr	20.8	25	25	22	22							
4741	4hr	20.5	25	25	24	24							
4203	↓	20.0	25	25	24	24							
3301	8hr	39.6	25	25	25	25	40.0	25	25	20	20	1	
3980	↓	38.8	25	25	20	20	38.9	25	25	14	14	1	
4043	↓	39.5	25	25	25	25	39.8	25	25	20	20	1	
3298	↓	41.3	25	25	26	26	40.4	25	25	22	22	1	
3170	↓	39.6	25	25	25	25	30.8	25	25	22	22	1	
3364	↓	38.9	25	25	24	24	39.6	25	25	22	22	1	
3051	↓	41.4	25	25	26	26	~~41~~ 40.0	25	25	22	22	1	
2551	↓	39.8	25	25	26	26	39.9	25	25	19	19	1	
2367	40min/4hr	19.8	25	25	24	24							
3118	↓	20.2	25	25	24	24							
4674	↓	19.7	25	25	22	22							
4212	↓	19.6	25	25	24	24							
4767	↓	19.5	25	25	22	22							
3125	24hr	3.3	25	25	28	28							
3449	↓	3.3	25	25	26	26							
2808	↓	3.3	25	25	25	25							

PAD 6/28/12

Pre-Shipment Criteria:

The pre-shipment flow rate must be within the range specified in the set flow rate table for the sampling time requested.

The difference between initial and final pressure readings for the control gauge and the FC gauge must be zero.

Set Flow Rates for Various Sampling Times (mL/min)

Size	30 min	1 hour	2 hour	4 hour	6 hour	8 hour	12 hour	16 hour	24 hour	24 hour (W)
6 Liter	150-195	79-81	38.0-41.5	19.5-20.5	13.3-13.7	9.8-10.2	6.5-6.9	4.9-5.1	3.2-3.4	2.7-2.9
1 Liter	NA	13.3-13.7	6.5-6.9	3.2-3.4	NA	NA	NA	NA	NA	NA

NA = Sampling Time is not applicable to canister size W=Winter Setting

Post Sampling Check Supporting Information:

Code	Date	Analyst	Temp (°C)	BP ("Hg)	FM ID	Code	Date	Analyst	Temp (°C)	BP ("Hg)	FM ID
1	6/28/12	PAD	21	29.1	09J40115	5					
2						6					
3						7					
4						8					

Flow Controller Calibration Check Worksheet
(Pre-Sampling vs. Post- Sampling Flow Rate Check)

Date:	6/28/2012
Analyst:	PAD
Job:	11505

Lab ID	FC ID	Flow Rates (mL/min)		RPD	Comments
		Pre-Sampling	Post Sampling	(%)	
200-11505-A-1	3170	39.6	30.8	25	
200-11505-A-2	3364	38.9	39.6	-2	
200-11505-A-3	3051	41.4	40.0	3	
200-11505-A-4	2581	39.8	39.9	0	
200-11505-A-5	3298	41.3	40.4	2	
200-11505-A-6	4043	39.5	39.8	-1	
200-11505-A-7	3980	38.6	38.9	-1	
200-11505-A-8	3301	39.6	40.0	-1	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	

RPD Criteria: RPD less than or equal to 20

*RPD Equation =((Pre-Samplng - Post Sampling) / (\|Pre-Sampling + Post-Sampling / 2\|))*100*

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gague ID	Analyst
ESS	11505	6/28/12	1250	29.1	21	G5	PAD

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		
(3) MA MCP: Check return flow rate for flow controllers	✓		
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	

If damage observed, list equipment IDs and describe condition:

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Return (Y/N)	Can Cert Batch ID	Comments
1	3279	-12.3	Y	3170	Y	2745 GGOT	
2	3464	-16.8	Y	3364	Y	↓	
3	2522	0.0	Y	3051	Y	↓	
4	4781	0.0	Y	2581	Y	5056 GGOR	
5	3554	-8.5	N	3298	Y	2745 GGOT	
6	3559	-11.3	Y	4043	Y	3043 CKVB	
7	5066	0.0	Y	3980	Y	2745 GGOT	
8	4373	-7.9	N	3301	Y	↓	

PAD 6/28/12

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # 50/ pg. 25

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Bob Rego	Samples Collected By: Bob Rego	1 of 2 COCs
Company: PRIME Engineering, Inc.	Phone: 508-947-0050		
Address: P.O. Box 10018	Email: rego@primeengineering.org		
City/State/Zip Bellingham, MA 02347			
Phone: 508-947-0050	Site Contact:		
FAX: 508-947-2004	TA Contact:		
Project Name: General Chemical	**Analysis Turnaround Time**		
Site: Lehigh St. TSDF	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	PSI Canister Vacuum in Field, "Hg (Start)	PSI Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Bldg. No. 1, Upwind	6/26/12	8:29	9:49	-30+	-12	3170	6047	X											
Bldg. No. 1, Downwind 1	6/26/12	8:24	9:47	-30	-20	3364	3404	X											
Bldg. No. 1, Interior	6/26/12	8:22	9:46	-30+	-2	3051	2522	X											
Bldg. No. 1, Downwind 2	6/26/12	8:24	9:48	-30+	-0.1	2581	~~2522~~ 4781	X											

Temperature (Fahrenheit)	Interior	Ambient
Start	✓	67° F
Stop	✓	66° F

Pressure (inches of Hg)	Interior	Ambient
Start	✓	29.51
Stop	✓	29.52

Special Instructions/QC Requirements & Comments:

72-hr. TAT

- MCP-CAM REQUESTED
- please report 10 TICs (including 2 butoxyethanol)

Samples Shipped by:	Date/Time:	Samples Received by:	6/28/12 1000
Samples Relinquished by:	Date/Time: 6/27/12 1:32	Received by:	6/27/12 1:32 pm
Relinquished by:	Date/Time: 6/27/12 2:58 pm	Received by:	6/27/12 1458
	6/27/12 1630		

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Bob Rego	Samples Collected By: Bob Rego	2 of 2 COCs
Company: PRIME Engineering, Inc.		Phone: 508-947-0050		
Address: P.O. Box 1688		Email: rrego@primeengineering.org		
City/State/Zip Lakeville, MA 02347				
Phone: 508-947-0050		Site Contact:		
FAX: 508-947-7004		TA Contact:		
Project Name: General Chemical		**Analysis Turnaround Time**		
Site: Leland St. TSDF		Standard (Specify)		
PO #		Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	*Sample Type*	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Tank No. 5, Adjacent	6/26/12	10:45	12:01	-30	-11	3298	5381	X											
Tank No. 5, Upwind	6/26/12	10:45	12:01	-30	-11	4043	5279	X											
Tank No. 5, Downwind No. 1	6/26/12	10:38	12:05	-22	-7	5980	5066	X											
Tank No. 5, Downwind No. 2	6/26/12	10:41	12:03	-30	-10	3507	6703	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start		65°F	
Stop		64°F	

Pressure (inches of Hg)	Interior	Ambient	
Start		29.52	
Stop		29.52	

Special Instructions/QC Requirements & Comments:
- 72 hr. TAT
- MCP CAM requested
- Report 10 TICs (including 2-Butoxyethanol)

Samples Shipped by:	Date/Time:	Samples Received by:	6/28/12 1000
Samples Relinquished by:	Date/Time: 6/27/12 1:32	Received by:	6/27/12 1:32pm
Relinquished by:	Date/Time: 6/27/12 2:55pm	Received by:	6/27/12 1458

Lab Use Only **Shipper Name:** 6/27/12 1630 **Opened by:** **Condition:**

ORIGIN ID: BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 27JUN12
ACTWGT: 34.7 LB
CAD: 590687/CAFE2511

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
INV:
PO:
REF:
DEPT:

FedEx Express

2 of 2
MPS# 0263 4258 8385 8640
Mstr# 4258 8385 8630
0201

THU - 28 JUN A4
STANDARD OVERNIGHT

02 BTVA

05403
VT-US BTV

ORIGIN ID: BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 27JUN12
ACTWGT: 35.9 LB
CAD: 590687/CAFE2511

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
INV:
PO:
REF:
DEPT:

FedEx Express

1 of 2
TRK# 0201 4258 8385 8630
MASTER

THU - 28 JUN A4
STANDARD OVERNIGHT

02 BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-11505-1
SDG Number: 200-11505-1

Login Number: 11505
List Number: 1
Creator: Kirchner, Benjamin

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	SAMPLE 4 & 5 - NO TIMES ON CONT. LABELS; REMAINDER LISTED START TIME ON LABEL
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Pre-Shipment Clean Canister Certification Report

Certification Type: ☑ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test				
System ID	# Cycles	Cleaning Date	Technician	Canister Size
BOTTOM	13	6/11/12	CLG	6L 1L 3L

Leak Test

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	4906	29.2	-29.0	-29.0	0.0
2	4919				
3	4331				
4	3020				
5	3758				
6	3206				
7	4293				
8	4303				
9	4073				
10	3002				
11	4303				
12	3209				

Initial Reading		Final Reading	
Gauge ID: G1		Gauge ID: G1	
Date: 6/12/12		Date: 6/21/12	
Time: 0832		Time: 1030	
Tech: WRD		Tech: SMK	
BP: 29.4	("Hg)	BP: 29.2	("Hg)
Temp 22	(°C)	Temp: 22	(°C)

[3]Acceptance Criteria:

(1) The difference must be less than or equal to + 0.5

(2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister:

PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
4919	6/11/12	GC02	AHK		✓				06/13/12	KLP

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

Pre-Shipment Clean Canister Certification Report

Certification Type: ☑ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test				
System ID	# Cycles	Cleaning Date	Technician	Canister Size
Orion	15	6/12/12	AUG	(6L) 1L 3L

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	3043	-29.1	-28.9	-28.9	0.0
2	2365				
3	4336				
4	4378				
5	4465				
6	4874				
7	3262				
8	4036				
9	3339				
10	4342				
11	4336				
12	4948				

Initial Reading		Final Reading	
Gauge ID: G1		Gauge ID: G1	
Date: 6/13/12		Date: 6/22/12	
Time: 1200		Time: 1013	
Tech: AUG		Tech: AUG	
BP: 29.3	("Hg)	BP: 29.1	("Hg)
Temp 22	(°C)	Temp: 22	(°C)

[3]Acceptance Criteria:

(1) The difference must be less than or equal to + 0.5

(2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister:

PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
3043	6/14/12	CKVB	PAD		✓				06/17/12	JPD

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

BR-FAI023.10.19.09.7
TestAmerica

200-11238-A-1
3043
Location: Air-Storage
Bottle: Summa Canister
Sampled: 6/12/2012 12:00 AM 200-349981

Loc: 200
11238
#1
A

Pre-Shipment Clean Canister Certification Report

Certification Type: ☑ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test				
System ID	# Cycles	Cleaning Date	Technician	Canister Size
TOPBACK	10	6/13/12	AHC	(6L) 1L 3L

Leak Test

Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]
1	2745	-29.4	-28.9	-28.9	0.0
2	4353				
3	3279				
4	3533				
5	4313				
6	3128				
7	~~3078~~ AHC 6/22/12				
8	2525		-28.9	-28.9	0.0
9	3066				
10	4335				
11	3464				
12	3019				

Initial Reading		Final Reading	
Gauge ID: G1		Gauge ID: G1	
Date: 6/14/12		Date: 6/22/12	
Time: 0830		Time: 11:15	
Tech: WRD		Tech: AHC	
BP: 29.6	("Hg)	BP: 29.1	("Hg)
Temp 22	(°C)	Temp: 20	(°C)

[3]Acceptance Criteria:

(1) The difference must be less than or equal to + 0.5

(2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister:

PM Authorization:

Signature Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☑ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
2745	6/14/12	GGOT	AHC		✓				06/18/12	KLP

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

BR-FAI023:10.19.09:7
TestAmerica

200-11239-A-1
2745
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 6/13/2012 12:00 AM 200-350127

Loc: 200
11239
#1
A

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-11222-1

SDG No.:

Client Sample ID: 5056 | Lab Sample ID: 200-11222-8

Matrix: Air | Lab File ID: ggor025.d

Analysis Method: TO-15 | Date Collected: 06/11/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/12/2012 10:09

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 40227 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-11222-1

SDG No.:

Client Sample ID: 5056 | Lab Sample ID: 200-11222-8

Matrix: Air | Lab File ID: ggor025.d

Analysis Method: TO-15 | Date Collected: 06/11/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/12/2012 10:09

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 40227 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-11222-1

SDG No.:

Client Sample ID: 5056 Lab Sample ID: 200-11222-8

Matrix: Air Lab File ID: ggor025.d

Analysis Method: TO-15 Date Collected: 06/11/2012 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 06/12/2012 10:09

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 40227 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-11222-8
Client Smp ID: 5056
Inj Date : 12-JUN-2012 10:09
Operator : ahk Inst ID: G.i
Smp Info : 200-11222-A-8
Misc Info : 1000,0.2,all74+mn
Comment :
Method : /chem/G.i/Gsvr.p/ggorto15.b/to15v5.m
Meth Date : 13-Jun-2012 08:19 klp Quant Type: ISTD
Cal Date : 15-MAY-2012 15:53 Cal File: ggo010.d
Als bottle: 16
Dil Factor: 0.20000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	0.20000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	1000.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

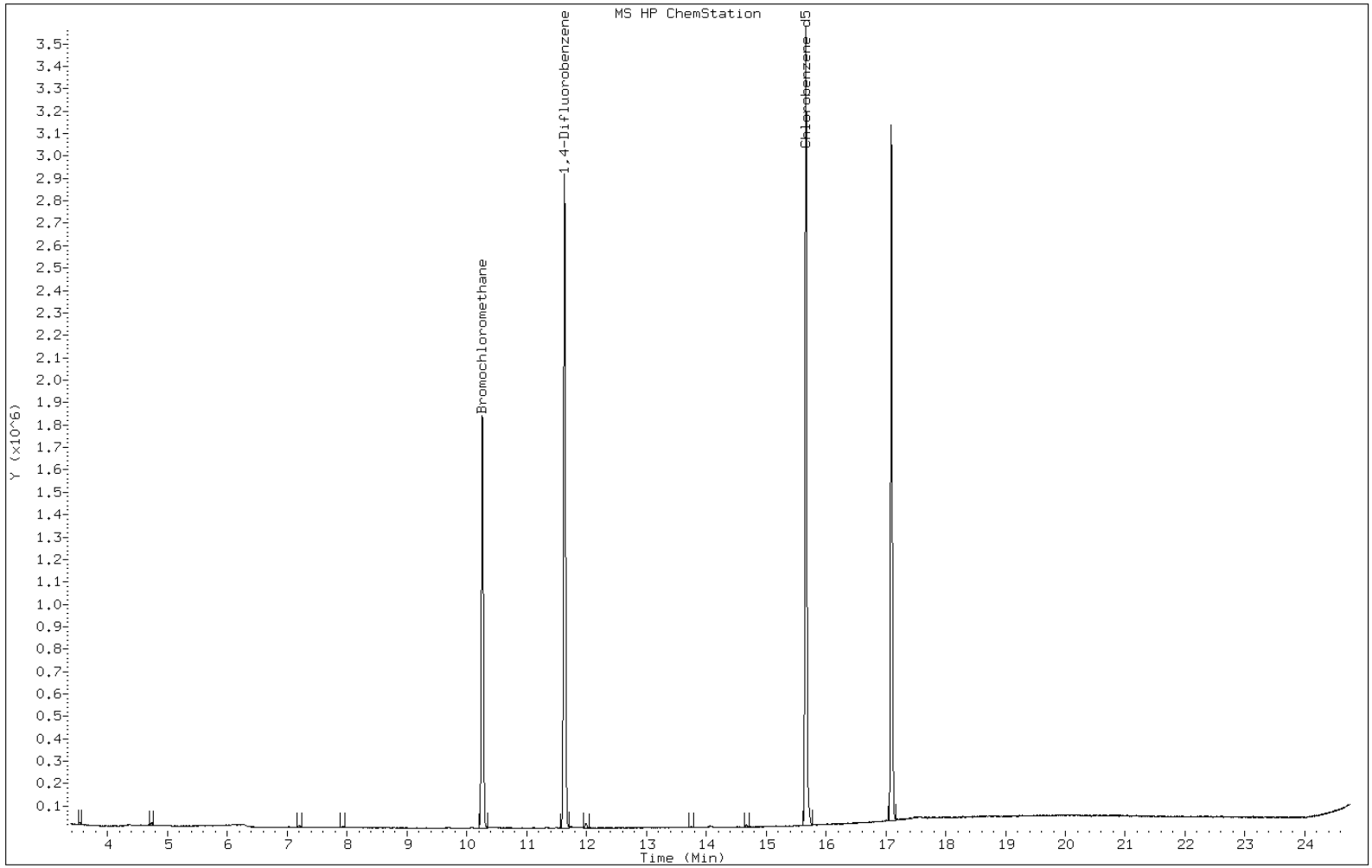
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	7.201	7.196	(0.702)	15441	0.21665	0.043(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	7.934	7.961	(0.773)	4372	0.07424	0.015(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	8.678	8.694	(0.846)	2378	0.03068	0.0061(aQ)
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	10.261	10.288	(1.000)	686483	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	11.336	11.358	(0.974)	1909	0.02022	0.0040(a)
*	47 1,4-Difluorobenzene	114	11.636	11.663	(1.000)	3138626	10.0000	
	49 Trichloroethene	95	11.994	12.021	(1.031)	8320	0.08275	0.017(a)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	15.664	15.691	(1.000)	2707190	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	ggor025.d	Date:	12-JUN-2012 10:09
Client ID:	5056	Instrument:	G.i
Operator:	ahk	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-11222-A-8		
Lab Sample ID:	200-11222-8		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-11238-1

SDG No.:

Client Sample ID: 3043 | Lab Sample ID: 200-11238-1

Matrix: Air | Lab File ID: ckvb025.d

Analysis Method: TO-15 | Date Collected: 06/12/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/14/2012 07:05

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 40349 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-11238-1

SDG No.:

Client Sample ID: 3043 | Lab Sample ID: 200-11238-1

Matrix: Air | Lab File ID: ckvb025.d

Analysis Method: TO-15 | Date Collected: 06/12/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/14/2012 07:05

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 40349 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-11238-1

SDG No.:

Client Sample ID: 3043 Lab Sample ID: 200-11238-1

Matrix: Air Lab File ID: ckvb025.d

Analysis Method: TO-15 Date Collected: 06/12/2012 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 06/14/2012 07:05

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 40349 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-11238-1
Client Smp ID: 3043
Inj Date : 14-JUN-2012 07:05
Operator : pad Inst ID: C.i
Smp Info : 200-11238-A-1
Misc Info : 1000,0.2, all74+MN
Comment :
Method : /chem/C.i/Csvr.p/ckvbto15.b/to15v5.m
Meth Date : 17-Jun-2012 09:36 jd1 Quant Type: ISTD
Cal Date : 07-JUN-2012 08:51 Cal File: ckv011.d
Als bottle: 13
Dil Factor: 0.20000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	0.20000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	1000.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

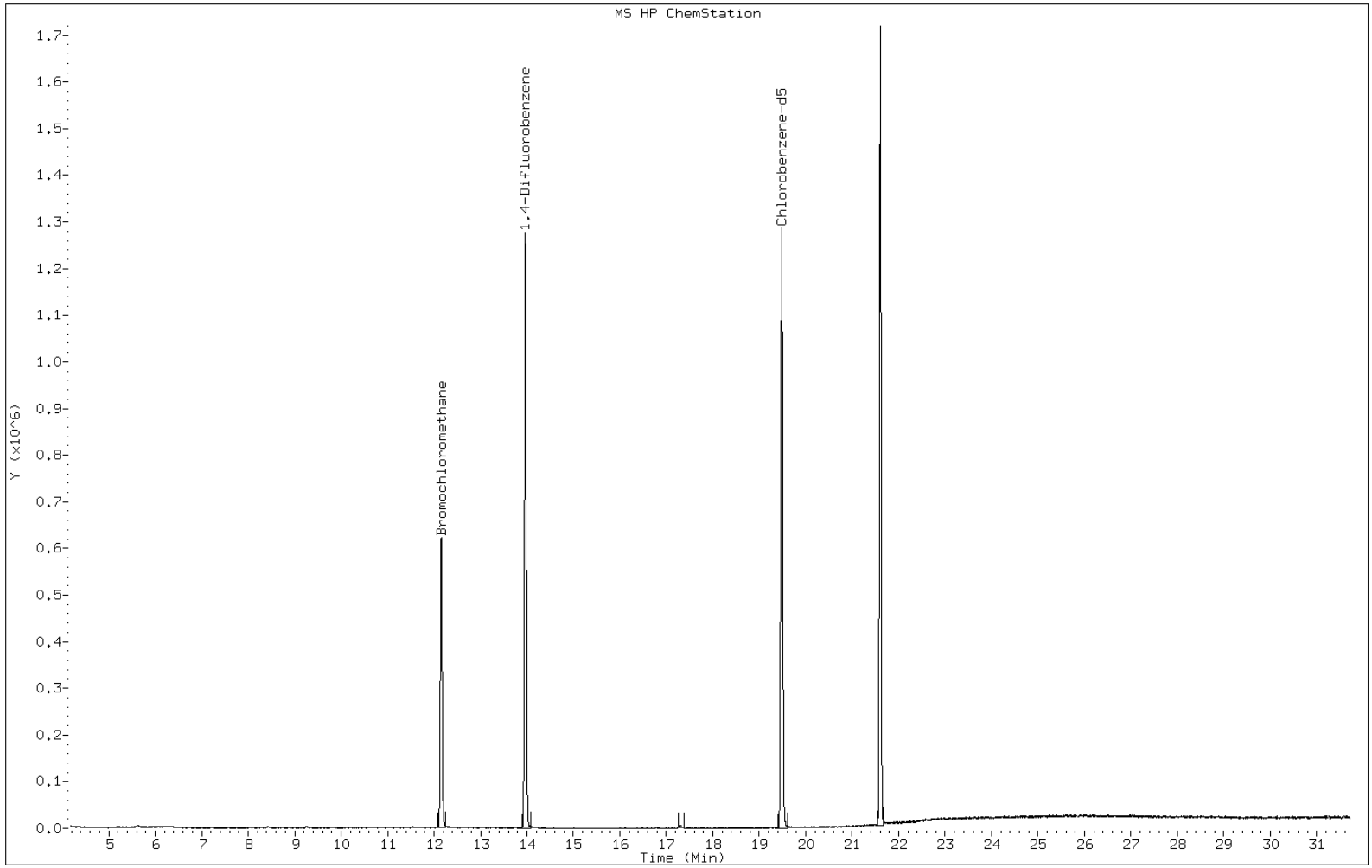
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	12.158	12.158	(1.000)	220460	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	13.967	13.973	(1.000)	1330979	10.0000	
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	19.486	19.486	(1.000)	1056069	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

Data File:	ckvb025.d	Date:	14-JUN-2012 07:05
Client ID:	3043	Instrument:	C.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-11238-A-1		
Lab Sample ID:	200-11238-1		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-11239-1

SDG No.:

Client Sample ID: 2745 | Lab Sample ID: 200-11239-1

Matrix: Air | Lab File ID: ggot006.d

Analysis Method: TO-15 | Date Collected: 06/13/2012 00:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/14/2012 13:26

Soil Aliquot Vol: | Dilution Factor: 0.2

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 40386 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 200-11239-1
SDG No.:
Client Sample ID: 2745
Lab Sample ID: 200-11239-1
Matrix: Air
Lab File ID: ggot006.d
Analysis Method: TO-15
Date Collected: 06/13/2012 00:00
Sample wt/vol: 1000(mL)
Date Analyzed: 06/14/2012 13:26
Soil Aliquot Vol:
Dilution Factor: 0.2
Soil Extract Vol.:
GC Column: RTX-624 ID: 0.32(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 40386
Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-11239-1

SDG No.:

Client Sample ID: 2745 Lab Sample ID: 200-11239-1

Matrix: Air Lab File ID: ggot006.d

Analysis Method: TO-15 Date Collected: 06/13/2012 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 06/14/2012 13:26

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 40386 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-11239-1
Client Smp ID: 2745
Inj Date : 14-JUN-2012 13:26
Operator : wrd Inst ID: G.i
Smp Info : 200-11239-A-1
Misc Info : 1000,0.2,all74+mn
Comment :
Method : /chem/G.i/Gsvr.p/ggotto15.b/to15v5.m
Meth Date : 15-Jun-2012 08:36 wrd Quant Type: ISTD
Cal Date : 15-MAY-2012 15:53 Cal File: ggo010.d
Als bottle: 5
Dil Factor: 0.20000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	0.20000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	1000.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

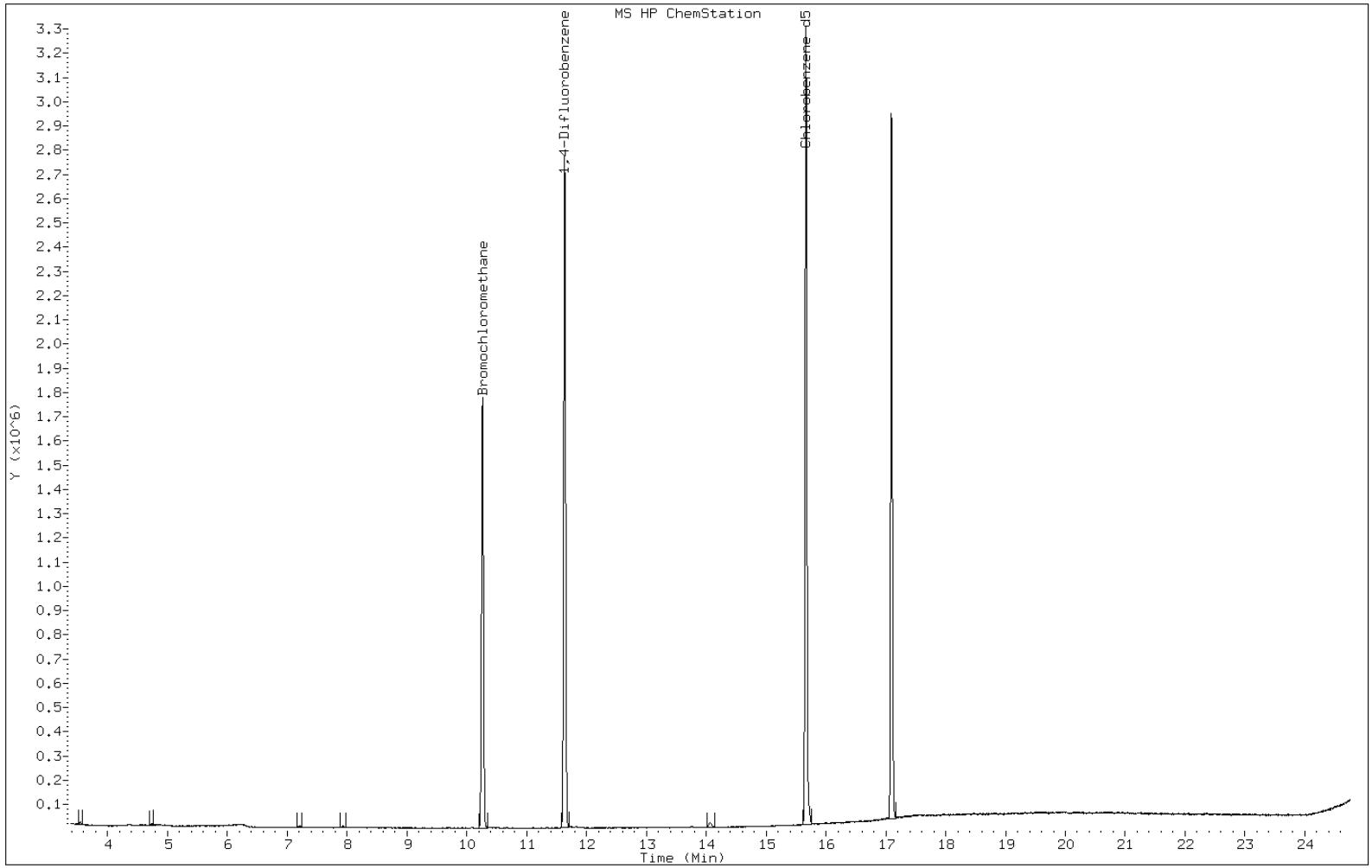
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	7.207	7.196	(0.702)	11002	0.15870	0.032(a)
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	7.939	7.961	(0.774)	4785	0.08354	0.017(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	10.261	10.288	(1.000)	667730	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	11.636	11.663	(1.000)	2997555	10.0000	
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	15.670	15.691	(1.000)	2556380	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	ggot006.d	Date:	14-JUN-2012 13:26
Client ID:	2745	Instrument:	G.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-11239-A-1		
Lab Sample ID:	200-11239-1		



Sample and Cooler Receipt Checklist

Client: Prime Engineering, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 12060443
Date Project Due: 7/5/12
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp:
   Iced With: **Icepacks**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? *** Yes**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Samples went right to test America

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	Other	1	NP
2	Yes	Other	1	NP
3	Yes	Other	1	NP
4	Yes	Other	1	NP
5	Yes	Other	1	NP
6	Yes	Other	1	NP
7	Yes	Other	1	NP
8	Yes	Other	1	NP

Completed By: JK Date/Time: 6/28/12 1530
Reviewed By: KM Date/Time: 6/28/12

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

120643

1 of 2 COCs

Client Contact Information
Company: PRIME Engineering, Inc.
Address: P.O. Box 1088
City/State/Zip Lakeville, MA 02347
Phone: 508-947-0050
FAX: 508-947-2004
Project Name: General Chemical
Site: Leland St. TSDF
PO #

Project Manager: Bob Rego
Phone: 508-947-0050
Email: rego@primeengineering.org
Site Contact:
TA Contact:

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Samples Collected By: Bob Rego

	Sample Identification	Sample Date(s)	Time Start	Time Stop	PSI Canister Vacuum in Field, "Hg (Start)	PSI Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1	Bldg. No. 1, Upwind	6/26/12	8:29	9:49	-30+	-12	3770	6047	X											
2	Bldg. No. 1, Downwind 1	6/26/12	8:24	9:47	-30	-20	3364	3404	X											
3	Bldg. No. 1, Interior	6/26/12	8:22	9:46	-30+	-2	3051	2522	X											
4	Bldg. No. 1, Downwind 2	6/26/12	8:24	9:48	-30+	-0.1	2581	~~2579~~ 1781	X											

Temperature (Fahrenheit)	Interior	Ambient
Start	✓	67° F
Stop	✓	66° F

Pressure (inches of Hg)	Interior	Ambient
Start	✓	29.51
Stop	✓	29.52

Special Instructions/QC Requirements & Comments:
72-hr. TAT
• MCP-CAM REQUESTED
• please report to TIC's (including 2 butoxyethanol)

Samples Shipped by:	Date/Time:	Samples Received by:	
Samples Relinquished by:	Date/Time: 6/27/12 1:32	Received by:	6/27/12 1:32pm
Relinquished by:	Date/Time: 6/27/12 2:58pm	Received by:	6/27/12 1458

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

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information
Company: PRIME Engineering, Inc.
Address: P.O. Box 1086
City/State/Zip Lakeville, MA 02347
Phone: 508-947-0050
FAX: 508-947-2004
Project Name: General Chemical
Site: Leland St. TSDF
PO #

Project Manager: Bob Reyes
Phone: 508-947-0050
Email: rreyes@primeengineering.org
Site Contact:
TA Contact:

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Samples Collected By: Bob Reyes

2 of 2 COCs

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
5 Tank No. 5, Adjacent	6/26/12	10:45	12:01	-30	-11	3298	5384	X											
6 Tank No. 5, Upwind	6/26/12	10:45	12:01	-30	-11	4043	5279	X											
7 Tank No. 5, Downwind No 1	6/26/12	10:38	12:05	-22	-7	5980	5066	X											
8 Tank No. 5, Downwind No. 2	6/26/12	10:41	12:03	-30	-10	3507	6703	X											

Temperature (Fahrenheit)	Interior	Ambient
Start		65°F
Stop		64°F

Pressure (inches of Hg)	Interior	Ambient
Start		29.52
Stop		29.52

Special Instructions/QC Requirements & Comments:
- 72 Hr. TAT
- MCP CAM Requested
- Report 10 TICs (including 2-Butoxyethanol)

Samples Shipped by:	Date/Time:	Samples Received by:	
Samples Relinquished by:	Date/Time: 6/27/12 1:32	Received by:	6/27/12 1:32pm
Relinquished by:	Date/Time: 6/27/12 2:58pm	Received by:	6/27/12 1458

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

APPENDIX B

Laboratory Analytical Results

(Ambient Air Sampling – SVOCs w/ TICs, Pesticides, and RCRA 8 Metals

CERTIFICATE OF ANALYSIS

Bob Rego
PRIME Engineering, Inc.
350 Bedford Street
Lakeville, MA 02347

RE: General Chemical - Filter (N/A)
ESS Laboratory Work Order Number: 1206436

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:33 pm, Jul 03, 2012

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

SAMPLE RECEIPT

The following samples were received on June 28, 2012 for the analyses specified on the enclosed Chain of Custody Record.

The samples and analyses listed below were analyzed in accordance with the Guidelines Establishing Test Procedures for the Analysis of Pollutants, 40 CFR Part 136, as amended.

Lab Number	SampleName	Matrix	Analysis
1206436-01	Building No 1 Filter 1 Downward 1	Filter	8270C, 8270D
1206436-02	Building No 1 Filter 2	Filter	8081B
1206436-03	Building No 1 Filter 3	Filter	6010B

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

CVF0265-CCV1 **Continuing Calibration recovery is below lower control limit (C-).**
N-Nitrosodimethylamine (77% @ 80-120%)

Semi-Volatile Organics Tentatively Identified Compounds

1206436-01 **Present in Method Blank (B).**
Aldol product

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter
Client Sample ID: Building No 1 Filter 1 Downward 1
Date Sampled: 06/26/12 09:58
Percent Solids: N/A
Initial Volume: 1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1206436
ESS Laboratory Sample ID: 1206436-01
Sample Matrix: Filter
Units: mg/kg wet
Analyst: IBM
Prepared: 6/29/12 12:00

All methods used are in accordance with 40 CFR 136.

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
1,2,4-Trichlorobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
1,2-Dichlorobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
1,3-Dichlorobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
1,4-Dichlorobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2,4,5-Trichlorophenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2,4,6-Trichlorophenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2,4-Dichlorophenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2,4-Dimethylphenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2,4-Dinitrophenol	ND (25.0)		1	06/29/12 19:45	CVF0265	CF22907
2,4-Dinitrotoluene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2,6-Dinitrotoluene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2-Chloronaphthalene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2-Chlorophenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2-Methylnaphthalene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2-Methylphenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
2-Nitrophenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
3,3´-Dichlorobenzidine	ND (10.0)		1	06/29/12 19:45	CVF0265	CF22907
3+4-Methylphenol	ND (10.0)		1	06/29/12 19:45	CVF0265	CF22907
4-Bromophenyl-phenylether	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
4-Chloroaniline	ND (10.0)		1	06/29/12 19:45	CVF0265	CF22907
4-Nitrophenol	ND (25.0)		1	06/29/12 19:45	CVF0265	CF22907
Acenaphthene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Acenaphthylene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Acetophenone	ND (10.0)		1	06/29/12 19:45	CVF0265	CF22907
Aniline	ND (25.0)		1	06/29/12 19:45	CVF0265	CF22907
Anthracene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Azobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Benzo(a)anthracene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Benzo(a)pyrene	ND (2.50)		1	06/29/12 19:45	CVF0265	CF22907
Benzo(b)fluoranthene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter
Client Sample ID: Building No 1 Filter 1 Downward 1
Date Sampled: 06/26/12 09:58
Percent Solids: N/A
Initial Volume: 1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1206436
ESS Laboratory Sample ID: 1206436-01
Sample Matrix: Filter
Units: mg/kg wet
Analyst: IBM
Prepared: 6/29/12 12:00

All methods used are in accordance with 40 CFR 136.

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Benzo(g,h,i)perylene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Benzo(k)fluoranthene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
bis(2-Chloroethoxy)methane	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
bis(2-Chloroethyl)ether	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
bis(2-chloroisopropyl)Ether	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
bis(2-Ethylhexyl)phthalate	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Butylbenzylphthalate	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Chrysene	ND (2.50)		1	06/29/12 19:45	CVF0265	CF22907
Dibenzo(a,h)Anthracene	ND (2.50)		1	06/29/12 19:45	CVF0265	CF22907
Dibenzofuran	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Diethylphthalate	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Dimethylphthalate	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Di-n-butylphthalate	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Di-n-octylphthalate	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Fluoranthene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Fluorene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Hexachlorobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Hexachlorobutadiene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Hexachloroethane	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Indeno(1,2,3-cd)Pyrene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Isophorone	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Naphthalene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Nitrobenzene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
N-Nitrosodimethylamine	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Pentachlorophenol	ND (25.0)		1	06/29/12 19:45	CVF0265	CF22907
Phenanthrene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Phenol	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907
Pyrene	ND (5.00)		1	06/29/12 19:45	CVF0265	CF22907

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter
Client Sample ID: Building No 1 Filter 1 Downward 1
Date Sampled: 06/26/12 09:58
Percent Solids: N/A
Initial Volume: 1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1206436
ESS Laboratory Sample ID: 1206436-01
Sample Matrix: Filter
Units: mg/kg wet
Analyst: IBM
Prepared: 6/29/12 12:00

All methods used are in accordance with 40 CFR 136.

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)		Limit	DF	Analyzed	Sequence	Batch
	%Recovery	*Qualifier*	*Limits*				
Surrogate: 1,2-Dichlorobenzene-d4	*52 %*		*30-130*				
Surrogate: 2,4,6-Tribromophenol	*78 %*		*30-130*				
Surrogate: 2-Chlorophenol-d4	*66 %*		*30-130*				
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*				
Surrogate: 2-Fluorophenol	*64 %*		*30-130*				
Surrogate: Nitrobenzene-d5	*55 %*		*30-130*				
Surrogate: Phenol-d6	*68 %*		*30-130*				
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter
Client Sample ID: Building No 1 Filter 1 Downward 1
Date Sampled: 06/26/12 09:58
Percent Solids: N/A
Initial Volume: 1
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1206436
ESS Laboratory Sample ID: 1206436-01
Sample Matrix: Filter
Units: mg/kg wet
Analyst: IBM
Prepared: 6/29/12 12:00

All methods used are in accordance with 40 CFR 136.

Semi-Volatile Organics Tentatively Identified Compounds

Analyte	Results (MRL)	Method	Limit	DF	Analyzed	Sequence	Batch
Aldol product	**B 3.98** (N/A)	8270C		1	06/29/12 19:45		CF22907

A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter
Client Sample ID: Building No 1 Filter 2
Date Sampled: 06/26/12 09:58
Percent Solids: N/A
Initial Volume: 1
Final Volume: 5
Extraction Method: 3546

ESS Laboratory Work Order: 1206436
ESS Laboratory Sample ID: 1206436-02
Sample Matrix: Filter
Units: mg/kg wet
Analyst: TAJ
Prepared: 6/29/12 12:00

All methods used are in accordance with 40 CFR 136.

8081A Organochlorine Pesticides

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
4,4´-DDD	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
4,4´-DDE	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
4,4´-DDT	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Aldrin	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
alpha-BHC	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
alpha-Chlordane	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
beta-BHC	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Chlordane (Total)	ND (0.400)		1	06/29/12 19:34	CVF0244	CF22909
delta-BHC	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Dieldrin	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Endosulfan I	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Endosulfan II	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Endosulfan Sulfate	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Endrin	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Endrin Ketone	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
gamma-BHC (Lindane)	ND (0.0300)		1	06/29/12 19:34	CVF0244	CF22909
gamma-Chlordane	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Heptachlor	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Heptachlor Epoxide	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Hexachlorobenzene	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Methoxychlor	ND (0.0500)		1	06/29/12 19:34	CVF0244	CF22909
Toxaphene	ND (2.50)		1	06/29/12 19:34	CVF0244	CF22909
Toxaphene [2C]	ND (2.50)		1	06/29/12 19:34	CVF0244	CF22909

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter
Client Sample ID: Building No 1 Filter 3
Date Sampled: 06/26/12 09:58
Percent Solids: N/A

ESS Laboratory Work Order: 1206436
ESS Laboratory Sample ID: 1206436-03
Sample Matrix: Filter
Units: mg/kg wet

All methods used are in accordance with 40 CFR 136.

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (1.0)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832
Barium	ND (1.0)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832
Cadmium	ND (0.20)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832
Chromium	ND (0.4)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832
Lead	ND (2.0)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832
Selenium	ND (2.0)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832
Silver	ND (0.20)	6010B		1	SVD	06/28/12 20:32	1	20	CF22832

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch CF22832 - 3050B										
Blank										
Arsenic	ND	1.0	mg/kg wet							
Barium	ND	1.0	mg/kg wet							
Cadmium	ND	0.20	mg/kg wet							
Chromium	ND	0.4	mg/kg wet							
Lead	ND	2.0	mg/kg wet							
Selenium	ND	2.0	mg/kg wet							
Silver	ND	0.20	mg/kg wet							
LCS										
Arsenic	9.37	1.0	mg/kg wet	10.00		94	80-120			
Barium	9.73	1.0	mg/kg wet	10.00		97	80-120			
Cadmium	4.43	0.20	mg/kg wet	5.000		89	80-120			
Chromium	9.89	0.4	mg/kg wet	10.00		99	80-120			
Lead	9.33	2.0	mg/kg wet	10.00		93	80-120			
Selenium	18.1	2.0	mg/kg wet	20.00		90	80-120			
Silver	4.65	0.20	mg/kg wet	5.000		93	80-120			
LCS Dup										
Arsenic	9.49	1.0	mg/kg wet	10.00		95	80-120	1	20	
Barium	9.86	1.0	mg/kg wet	10.00		99	80-120	1	20	
Cadmium	4.54	0.20	mg/kg wet	5.000		91	80-120	2	20	
Chromium	9.97	0.4	mg/kg wet	10.00		100	80-120	0.7	20	
Lead	9.54	2.0	mg/kg wet	10.00		95	80-120	2	20	
Selenium	18.5	2.0	mg/kg wet	20.00		92	80-120	2	20	
Silver	4.72	0.20	mg/kg wet	5.000		94	80-120	2	20	
8081A Organochlorine Pesticides										
Batch CF22909 - 3546										
Blank										
4,4´-DDD	ND	0.0025	mg/kg wet							
4,4´-DDD [2C]	ND	0.0025	mg/kg wet							
4,4´-DDE	ND	0.0025	mg/kg wet							
4,4´-DDE [2C]	ND	0.0025	mg/kg wet							
4,4´-DDT	ND	0.0025	mg/kg wet							
4,4´-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0200	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CF22909 - 3546										
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							
Toxaphene	ND	0.125	mg/kg wet							
Toxaphene [2C]	ND	0.125	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0139*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0135*		mg/kg wet	*0.01250*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0126*		mg/kg wet	*0.01250*		*100*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0121*		mg/kg wet	*0.01250*		*97*	*30-150*			
LCS										
4,4´-DDD	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
4,4´-DDD [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
4,4´-DDE	0.0138	0.0025	mg/kg wet	0.01250		110	40-140			
4,4´-DDE [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
4,4´-DDT	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
4,4´-DDT [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140			
Aldrin	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Aldrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
alpha-BHC	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
alpha-BHC [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
alpha-Chlordane	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CF22909 - 3546										
alpha-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
beta-BHC	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
beta-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		107	40-140			
delta-BHC	0.0101	0.0025	mg/kg wet	0.01250		81	40-140			
delta-BHC [2C]	0.0094	0.0025	mg/kg wet	0.01250		75	40-140			
Dieldrin	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Dieldrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endosulfan I	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Endosulfan I [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140			
Endosulfan II	0.0141	0.0025	mg/kg wet	0.01250		113	40-140			
Endosulfan II [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Endosulfan Sulfate	0.0122	0.0025	mg/kg wet	0.01250		97	40-140			
Endosulfan Sulfate [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin	0.0138	0.0025	mg/kg wet	0.01250		110	40-140			
Endrin [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
Endrin Ketone	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
Endrin Ketone [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
gamma-BHC (Lindane)	0.0129	0.0015	mg/kg wet	0.01250		103	40-140			
gamma-BHC (Lindane) [2C]	0.0127	0.0015	mg/kg wet	0.01250		102	40-140			
gamma-Chlordane	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
gamma-Chlordane [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Heptachlor	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Heptachlor [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Heptachlor Epoxide	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Heptachlor Epoxide [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Hexachlorobenzene	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Hexachlorobenzene [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Methoxychlor	0.0138	0.0025	mg/kg wet	0.01250		110	40-140			
Methoxychlor [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
Surrogate: Decachlorobiphenyl	*0.0138*		mg/kg wet	*0.01250*		*111*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0135*		mg/kg wet	*0.01250*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0130*		mg/kg wet	*0.01250*		*104*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0129*		mg/kg wet	*0.01250*		*104*	*30-150*			
LCS Dup										
4,4´-DDD	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	0.5	30	
4,4´-DDD [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	3	30	
4,4´-DDE	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	4	30	
4,4´-DDE [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	4	30	
4,4´-DDT	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	7	30	
4,4´-DDT [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	2	30	
Aldrin	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	4	30	
Aldrin [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
alpha-BHC	0.0119	0.0025	mg/kg wet	0.01250		96	40-140	4	30	
alpha-BHC [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	4	30	

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch CF22909 - 3546										
alpha-Chlordane	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
alpha-Chlordane [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	3	30	
beta-BHC	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	2	30	
beta-BHC [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	2	30	
delta-BHC	0.0098	0.0025	mg/kg wet	0.01250		79	40-140	3	30	
delta-BHC [2C]	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	3	30	
Dieldrin	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
Dieldrin [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Endosulfan I	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	3	30	
Endosulfan I [2C]	0.0124	0.0025	mg/kg wet	0.01250		100	40-140	3	30	
Endosulfan II	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	0.5	30	
Endosulfan II [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	2	30	
Endosulfan Sulfate	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	3	30	
Endosulfan Sulfate [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	0.9	30	
Endrin	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	3	30	
Endrin [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	3	30	
Endrin Ketone	0.0132	0.0025	mg/kg wet	0.01250		105	40-140	1	30	
Endrin Ketone [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	0.9	30	
gamma-BHC (Lindane)	0.0124	0.0015	mg/kg wet	0.01250		99	40-140	4	30	
gamma-BHC (Lindane) [2C]	0.0122	0.0015	mg/kg wet	0.01250		98	40-140	4	30	
gamma-Chlordane	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	4	30	
gamma-Chlordane [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	3	30	
Heptachlor	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	4	30	
Heptachlor [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	4	30	
Heptachlor Epoxide	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	4	30	
Heptachlor Epoxide [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	4	30	
Hexachlorobenzene	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	5	30	
Hexachlorobenzene [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	4	30	
Methoxychlor	0.0137	0.0025	mg/kg wet	0.01250		109	40-140	1	30	
Methoxychlor [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0130*		mg/kg wet	*0.01250*		*104*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0127*		mg/kg wet	*0.01250*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0120*		mg/kg wet	*0.01250*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0119*		mg/kg wet	*0.01250*		*96*	*30-150*			
8270D Semi-Volatile Organic Compounds										
Batch CF22907 - 3546										
Blank										
1,1-Biphenyl	ND	0.333	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CF22907 - 3546										
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CF22907 - 3546										
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.07*		mg/kg wet	*3.333*		*62*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*4.87*		mg/kg wet	*5.000*		*97*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.89*		mg/kg wet	*5.000*		*78*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2-Fluorophenol	*3.84*		mg/kg wet	*5.000*		*77*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.15*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: Phenol-d6	*3.99*		mg/kg wet	*5.000*		*80*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.91*		mg/kg wet	*3.333*		*87*	*30-130*			
LCS										
1,1-Biphenyl	2.81	0.333	mg/kg wet	3.333		84	40-140			
1,2,4-Trichlorobenzene	2.53	0.333	mg/kg wet	3.333		76	40-140			
1,2-Dichlorobenzene	2.57	0.333	mg/kg wet	3.333		77	40-140			
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140			
1,4-Dichlorobenzene	2.55	0.333	mg/kg wet	3.333		76	40-140			
2,4,5-Trichlorophenol	3.14	0.333	mg/kg wet	3.333		94	30-130			
2,4,6-Trichlorophenol	3.03	0.333	mg/kg wet	3.333		91	30-130			
2,4-Dichlorophenol	2.88	0.333	mg/kg wet	3.333		87	30-130			
2,4-Dimethylphenol	2.85	0.333	mg/kg wet	3.333		85	30-130			
2,4-Dinitrophenol	2.44	1.67	mg/kg wet	3.333		73	30-130			
2,4-Dinitrotoluene	2.72	0.333	mg/kg wet	3.333		82	40-140			
2,6-Dinitrotoluene	2.92	0.333	mg/kg wet	3.333		88	40-140			
2-Chloronaphthalene	2.59	0.333	mg/kg wet	3.333		78	40-140			
2-Chlorophenol	2.60	0.333	mg/kg wet	3.333		78	30-130			
2-Methylnaphthalene	2.69	0.333	mg/kg wet	3.333		81	40-140			
2-Methylphenol	2.68	0.333	mg/kg wet	3.333		80	30-130			
2-Nitrophenol	2.72	0.333	mg/kg wet	3.333		82	30-130			
3,3´-Dichlorobenzidine	2.74	0.667	mg/kg wet	3.333		82	40-140			
3+4-Methylphenol	5.77	0.667	mg/kg wet	6.667		87	30-130			
4-Bromophenyl-phenylether	2.99	0.333	mg/kg wet	3.333		90	40-140			
4-Chloroaniline	2.26	0.667	mg/kg wet	3.333		68	40-140			
4-Nitrophenol	2.85	1.67	mg/kg wet	3.333		86	30-130			
Acenaphthene	2.79	0.333	mg/kg wet	3.333		84	40-140			
Acenaphthylene	2.57	0.333	mg/kg wet	3.333		77	40-140			
Acetophenone	2.64	0.667	mg/kg wet	3.333		79	40-140			
Aniline	2.16	1.67	mg/kg wet	3.333		65	40-140			
Anthracene	3.12	0.333	mg/kg wet	3.333		93	40-140			
Azobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140			

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CF22907 - 3546										
Benzo(a)anthracene	3.21	0.333	mg/kg wet	3.333		96	40-140			
Benzo(a)pyrene	3.06	0.167	mg/kg wet	3.333		92	40-140			
Benzo(b)fluoranthene	3.34	0.333	mg/kg wet	3.333		100	40-140			
Benzo(g,h,i)perylene	3.15	0.333	mg/kg wet	3.333		95	40-140			
Benzo(k)fluoranthene	3.12	0.333	mg/kg wet	3.333		94	40-140			
bis(2-Chloroethoxy)methane	2.63	0.333	mg/kg wet	3.333		79	40-140			
bis(2-Chloroethyl)ether	2.49	0.333	mg/kg wet	3.333		75	40-140			
bis(2-chloroisopropyl)Ether	2.51	0.333	mg/kg wet	3.333		75	40-140			
bis(2-Ethylhexyl)phthalate	3.03	0.333	mg/kg wet	3.333		91	40-140			
Butylbenzylphthalate	2.87	0.333	mg/kg wet	3.333		86	40-140			
Chrysene	3.11	0.167	mg/kg wet	3.333		93	40-140			
Dibenzo(a,h)Anthracene	3.21	0.167	mg/kg wet	3.333		96	40-140			
Dibenzofuran	2.73	0.333	mg/kg wet	3.333		82	40-140			
Diethylphthalate	2.86	0.333	mg/kg wet	3.333		86	40-140			
Dimethylphthalate	2.82	0.333	mg/kg wet	3.333		85	40-140			
Di-n-butylphthalate	2.92	0.333	mg/kg wet	3.333		88	40-140			
Di-n-octylphthalate	3.09	0.333	mg/kg wet	3.333		93	40-140			
Fluoranthene	3.06	0.333	mg/kg wet	3.333		92	40-140			
Fluorene	2.87	0.333	mg/kg wet	3.333		86	40-140			
Hexachlorobenzene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Hexachlorobutadiene	2.68	0.333	mg/kg wet	3.333		80	40-140			
Hexachloroethane	2.49	0.333	mg/kg wet	3.333		75	40-140			
Indeno(1,2,3-cd)Pyrene	3.22	0.333	mg/kg wet	3.333		97	40-140			
Isophorone	2.60	0.333	mg/kg wet	3.333		78	40-140			
Naphthalene	2.67	0.333	mg/kg wet	3.333		80	40-140			
Nitrobenzene	2.66	0.333	mg/kg wet	3.333		80	40-140			
N-Nitrosodimethylamine	1.60	0.333	mg/kg wet	3.333		48	40-140			
Pentachlorophenol	2.75	1.67	mg/kg wet	3.333		82	30-130			
Phenanthrene	3.05	0.333	mg/kg wet	3.333		91	40-140			
Phenol	2.67	0.333	mg/kg wet	3.333		80	30-130			
Pyrene	3.27	0.333	mg/kg wet	3.333		98	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.19*		mg/kg wet	*3.333*		*66*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.13*		mg/kg wet	*5.000*		*103*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*4.31*		mg/kg wet	*5.000*		*86*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.27*		mg/kg wet	*3.333*		*68*	*30-130*			
Surrogate: 2-Fluorophenol	*4.21*		mg/kg wet	*5.000*		*84*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.30*		mg/kg wet	*3.333*		*69*	*30-130*			
Surrogate: Phenol-d6	*4.44*		mg/kg wet	*5.000*		*89*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.63*		mg/kg wet	*3.333*		*79*	*30-130*			
LCS Dup										
1,1-Biphenyl	2.65	0.333	mg/kg wet	3.333		80	40-140	6	30	
1,2,4-Trichlorobenzene	2.31	0.333	mg/kg wet	3.333		69	40-140	9	30	
1,2-Dichlorobenzene	2.31	0.333	mg/kg wet	3.333		69	40-140	11	30	
1,3-Dichlorobenzene	2.27	0.333	mg/kg wet	3.333		68	40-140	10	30	
1,4-Dichlorobenzene	2.30	0.333	mg/kg wet	3.333		69	40-140	10	30	

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CF22907 - 3546										
2,4,5-Trichlorophenol	3.07	0.333	mg/kg wet	3.333		92	30-130	2	30	
2,4,6-Trichlorophenol	2.87	0.333	mg/kg wet	3.333		86	30-130	5	30	
2,4-Dichlorophenol	2.65	0.333	mg/kg wet	3.333		80	30-130	8	30	
2,4-Dimethylphenol	2.64	0.333	mg/kg wet	3.333		79	30-130	8	30	
2,4-Dinitrophenol	2.74	1.67	mg/kg wet	3.333		82	30-130	12	30	
2,4-Dinitrotoluene	2.86	0.333	mg/kg wet	3.333		86	40-140	5	30	
2,6-Dinitrotoluene	2.95	0.333	mg/kg wet	3.333		88	40-140	0.9	30	
2-Chloronaphthalene	2.43	0.333	mg/kg wet	3.333		73	40-140	6	30	
2-Chlorophenol	2.40	0.333	mg/kg wet	3.333		72	30-130	8	30	
2-Methylnaphthalene	2.49	0.333	mg/kg wet	3.333		75	40-140	7	30	
2-Methylphenol	2.48	0.333	mg/kg wet	3.333		74	30-130	8	30	
2-Nitrophenol	2.52	0.333	mg/kg wet	3.333		76	30-130	8	30	
3,3´-Dichlorobenzidine	2.71	0.667	mg/kg wet	3.333		81	40-140	1	30	
3+4-Methylphenol	5.33	0.667	mg/kg wet	6.667		80	30-130	8	30	
4-Bromophenyl-phenylether	2.98	0.333	mg/kg wet	3.333		90	40-140	0.3	30	
4-Chloroaniline	2.12	0.667	mg/kg wet	3.333		64	40-140	6	30	
4-Nitrophenol	3.01	1.67	mg/kg wet	3.333		90	30-130	5	30	
Acenaphthene	2.66	0.333	mg/kg wet	3.333		80	40-140	5	30	
Acenaphthylene	2.44	0.333	mg/kg wet	3.333		73	40-140	5	30	
Acetophenone	2.43	0.667	mg/kg wet	3.333		73	40-140	8	30	
Aniline	1.96	1.67	mg/kg wet	3.333		59	40-140	10	30	
Anthracene	3.19	0.333	mg/kg wet	3.333		96	40-140	2	30	
Azobenzene	2.67	0.333	mg/kg wet	3.333		80	40-140	2	30	
Benzo(a)anthracene	3.26	0.333	mg/kg wet	3.333		98	40-140	2	30	
Benzo(a)pyrene	3.14	0.167	mg/kg wet	3.333		94	40-140	3	30	
Benzo(b)fluoranthene	3.36	0.333	mg/kg wet	3.333		101	40-140	0.8	30	
Benzo(g,h,i)perylene	3.27	0.333	mg/kg wet	3.333		98	40-140	4	30	
Benzo(k)fluoranthene	3.29	0.333	mg/kg wet	3.333		99	40-140	5	30	
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333		72	40-140	9	30	
bis(2-Chloroethyl)ether	2.24	0.333	mg/kg wet	3.333		67	40-140	11	30	
bis(2-chloroisopropyl)Ether	2.23	0.333	mg/kg wet	3.333		67	40-140	12	30	
bis(2-Ethylhexyl)phthalate	3.10	0.333	mg/kg wet	3.333		93	40-140	2	30	
Butylbenzylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140	3	30	
Chrysene	3.17	0.167	mg/kg wet	3.333		95	40-140	2	30	
Dibenzo(a,h)Anthracene	3.31	0.167	mg/kg wet	3.333		99	40-140	3	30	
Dibenzofuran	2.61	0.333	mg/kg wet	3.333		78	40-140	4	30	
Diethylphthalate	2.97	0.333	mg/kg wet	3.333		89	40-140	4	30	
Dimethylphthalate	2.78	0.333	mg/kg wet	3.333		84	40-140	1	30	
Di-n-butylphthalate	3.08	0.333	mg/kg wet	3.333		92	40-140	5	30	
Di-n-octylphthalate	3.22	0.333	mg/kg wet	3.333		97	40-140	4	30	
Fluoranthene	3.19	0.333	mg/kg wet	3.333		96	40-140	4	30	
Fluorene	2.82	0.333	mg/kg wet	3.333		84	40-140	2	30	
Hexachlorobenzene	2.92	0.333	mg/kg wet	3.333		88	40-140	0.9	30	
Hexachlorobutadiene	2.42	0.333	mg/kg wet	3.333		73	40-140	10	30	
Hexachloroethane	2.24	0.333	mg/kg wet	3.333		67	40-140	10	30	

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CF22907 - 3546										
Indeno(1,2,3-cd)Pyrene	3.33	0.333	mg/kg wet	3.333		100	40-140	3	30	
Isophorone	2.40	0.333	mg/kg wet	3.333		72	40-140	8	30	
Naphthalene	2.45	0.333	mg/kg wet	3.333		74	40-140	9	30	
Nitrobenzene	2.46	0.333	mg/kg wet	3.333		74	40-140	8	30	
N-Nitrosodimethylamine	1.48	0.333	mg/kg wet	3.333		44	40-140	8	30	
Pentachlorophenol	2.92	1.67	mg/kg wet	3.333		88	30-130	6	30	
Phenanthrene	3.13	0.333	mg/kg wet	3.333		94	40-140	3	30	
Phenol	2.46	0.333	mg/kg wet	3.333		74	30-130	8	30	
Pyrene	3.32	0.333	mg/kg wet	3.333		100	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.89*		mg/kg wet	*3.333*		*57*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*5.12*		mg/kg wet	*5.000*		*102*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.89*		mg/kg wet	*5.000*		*78*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/kg wet	*3.333*		*64*	*30-130*			
Surrogate: 2-Fluorophenol	*3.78*		mg/kg wet	*5.000*		*76*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.10*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: Phenol-d6	*4.02*		mg/kg wet	*5.000*		*80*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.68*		mg/kg wet	*3.333*		*80*	*30-130*			
Semi-Volatile Organics Tentatively Identified Compounds										
Batch CF22907 - 3546										
Blank										
Aldol product	0.326		mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

Notes and Definitions

U	Analyte included in the analysis, but not detected
C-	Continuing Calibration recovery is below lower control limit (C-).
B	Present in Method Blank (B).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report

CERTIFICATE OF ANALYSIS

Client Name: PRIME Engineering, Inc.
Client Project ID: General Chemical - Filter

ESS Laboratory Work Order: 1206436

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: Prime Engineering, Inc.
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 12060436
Date Project Due: 7/3/12
Days For Project: 3 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **3.6**
   Iced With: **Icepacks**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes | No**
17. Were samples received intact? **Yes | No**
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____
18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	Other Glass	1	NP
2	Yes	Other Glass	1	NP
3	Yes	Other Plastic	1	NP

Completed By: JK Date/Time: 6/28/12 1533
Reviewed By: KAB Date/Time: 6/28/12

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 72 hr
If faster than 5 days, prior approval by laboratory is required #

Reporting Limits

ESS LAB PROJECT ID 1206436

State where samples were collected from: (MA) RI CT NH NJ NY ME Other

Electronic Deliverable Yes ✓ No ___

Is this project for any of the following: MA-MCP Navy USACE Other

Format: Excel ✓ Access ___ PDF ✓ Other

Co. Name: Prime Engineering, Inc.

Project #

Project Name (20 Char. or less)

Contact Person: Bob Rego

Address: PO Box 1088

City: Lincoln

State: RI

Zip: 02947

PO#

Telephone #: (508) 947-0050

Fax #: 508.947.2004

Email Address: RRego@primeengineering.com

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers			SVOCs by 8270 w/ TICs	Pesticides	Ag, As, Ba, Cd	Cr, Pb, Se
01	6/26/12	8:26 to 9:50	X		F-part	Building No. 1, Downwind Filter #1						X	X		
02	"	"	Y			" " Filter 2							X		
										X	X	X	X		
03	"	"	X			" " Filter #3								X	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: X

Cooler Temp: 3.6°

Internal Use Only
[ ] Pickup
[ ] Technicians

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-

Sampled by: Bob Rego

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/27/12 1:32	[signature]	6/27/12 1:32	[signature]	6/27/12 4:32	[signature]	6/27/12 4:32
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]		[signature]	6/28/12 1:23	[signature]	6/28/12 1:29	[signature]	6/28/12 1:32

[1]By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

APPENDIX C

Data Quality Evaluation

DATA QUALITY ANALYSIS

PRIME personnel collected air quality samples at up-wind, down-wind, and at work zone locations during the Surface Cleaning Pilot Test conducted on June 26, 2012. An evaluation of the data collection process and analytical methods is included in the following subsections.

A. Weather Station

Meteorological data were collected using a Davis Vantage Pro 2 weather station, which was calibrated by Pine Environmental prior to a one-day rental. Temperature, wind direction and velocity, and barometric pressure readings recorded by the on-site weather station were consistent with weather records maintained by the National Oceanographic and Atmospheric Administration (NOAA); therefore, no additional field calibration was conducted.

B. Particulate Monitors

PRIME collected continuous real time particulate monitoring data during Pilot Test activities using portable DustTrak™ Model 8530 (DustTrak II) aerosol monitors (particulate monitors). Prior to beginning particulate monitoring activities, each particulate monitor was zeroed in accordance with the manufacturer's recommendations.

C. Total Organic Volatile Screening

PRIME personnel conducted real-time total organic volatile (TOV) monitoring during Pilot Test activities using two (2) ppbRAE3000 Organic Volatile Meters (ppbRAEs), which were calibrated, and certified as such, by Pine Environmental prior to their one-day rental.

D. VOC Sampling and Laboratory Analysis

PRIME personnel collected four (4) air samples [one (1) up-wind, one (1) work zone, and two (2) down-wind] during the cleaning of the interior Building No. 1 and four (4) air samples [one (1) up-wind, one (1) work zone, and two (2) down-wind] during the cleaning of the interior of Tank No. 5. Air samples were collected using pre-cleaned Summa® Canisters connected to two-hour regulators. The vacuum of each Summa® Canister was recorded at the beginning and end of the sampling period associated with each composite sample. PRIME personnel also recorded the serial numbers associated with each Summa® Canister and flow regulator. Air samples were submitted, under a chain of custody, to Test America for laboratory analysis of TO-15 Analytes, including Tentatively Identified Compounds (TICs). During the sample log-in process, Test America's sample management personnel observed discrepancies associated with the serial numbers for several Summa® Canisters and flow regulators. Additionally, Test America observed that three (3) Summa® Canisters were received at ambient pressure. The following provides clarification regarding sample identifications and pressure readings associated with air samples collected on June 26, 2012:

- Serial numbers recorded on the Chain of Custody varied from Test America's Asset Identifications for four (4) Summa® Canisters (Bldg. No. 1 Upwind, Tank No. 5 Upwind, Tank No. 5 Adjacent, and Tank No. 5 Downwind No. 2) and flow regulators associated with two air samples (Tank No. 5 Downwind No. 1 and Tank No. 5

Downwind No. 2). Based on review by Test America's project management team, PRIME personnel had recorded the equipment manufacturers' serial numbers for the above-referenced sampling apparatus, rather than the Test America Asset Identifications. Test America realized the serial number discrepancy during the sample log-in process, and logged all samples in using the Test America Asset Identifications. Sample identification cards were intact upon laboratory receipt of the samples; therefore, there was no confusion for Test America while determining which Summa® Canister was associated with each samples' field identification. This is not viewed to have affected the results of laboratory analysis.

- Three air samples (Building No. 1 Interior, Building No. 1 Downwind No. 2, and Tank No. 5 Downwind No. 1) were received by Test America at ambient pressure. It appears that the regulators for these canisters allowed them to be filled in less time than the prescribed 2 hours. At the end of the sample collection period for each phase of the Pilot Study, the regulators were immediately closed and removed from the canisters. Since the valves of the Summa® Canisters associated with these samples were opened at the beginning and closed at the end of the Pilot Testing periods, these air samples are still viewed to represent ambient air conditions during the Pilot Testing periods. According to Test America, the final pressures of the above-referenced Summa® Canisters did not affect the quality or precision of the laboratory analysis procedure.

E. Air Quality Sampling

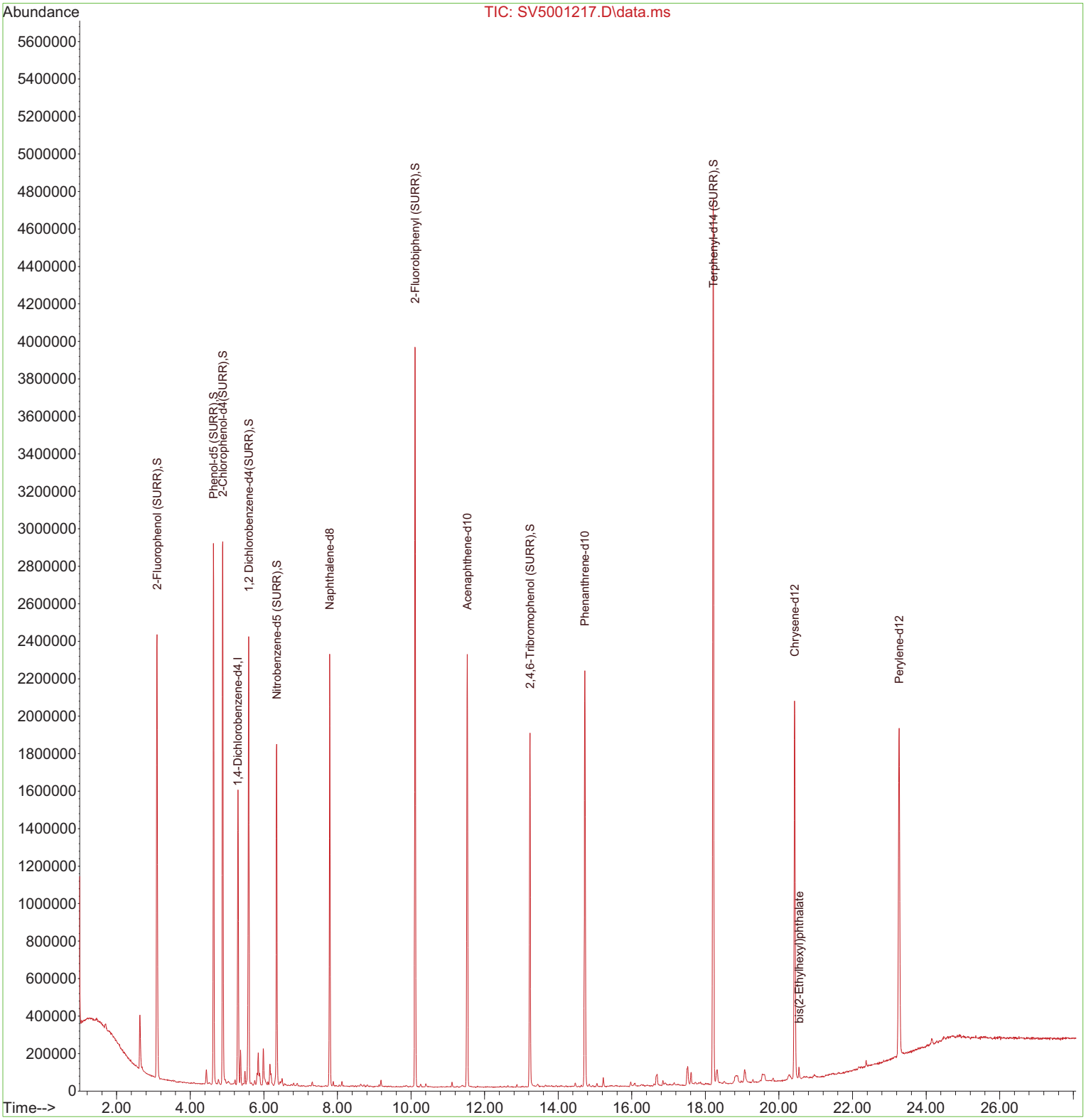
In accordance with the Draft Closure Plan and MassDEP's approval to conduct the Pilot Test, PRIME personnel only collected composite PM_{10} particulate samples during the Surface Cleaning of the Interior of Building No. 1. Particulate samples were collected using a BGI PQ100 portable high volume PM_{10} sampling unit. The filter cassettes were submitted, under a chain of custody, to ESS Laboratory, of Cranston, Rhode Island, for laboratory analysis of Semi-Volatile Organic Compounds (SVOCs) with Tentatively Identified Compounds (TICs), Pesticides, and RCRA 8 Metals via US EPA-approved analytical methodology. The following provides clarification regarding method unconformities associated with filter samples collected on June 26, 2012:

- The Continuing Calibration recovery for N-Nitrosodimethylamine was below the lower control limit. This is not viewed to have affected the results of laboratory analysis.

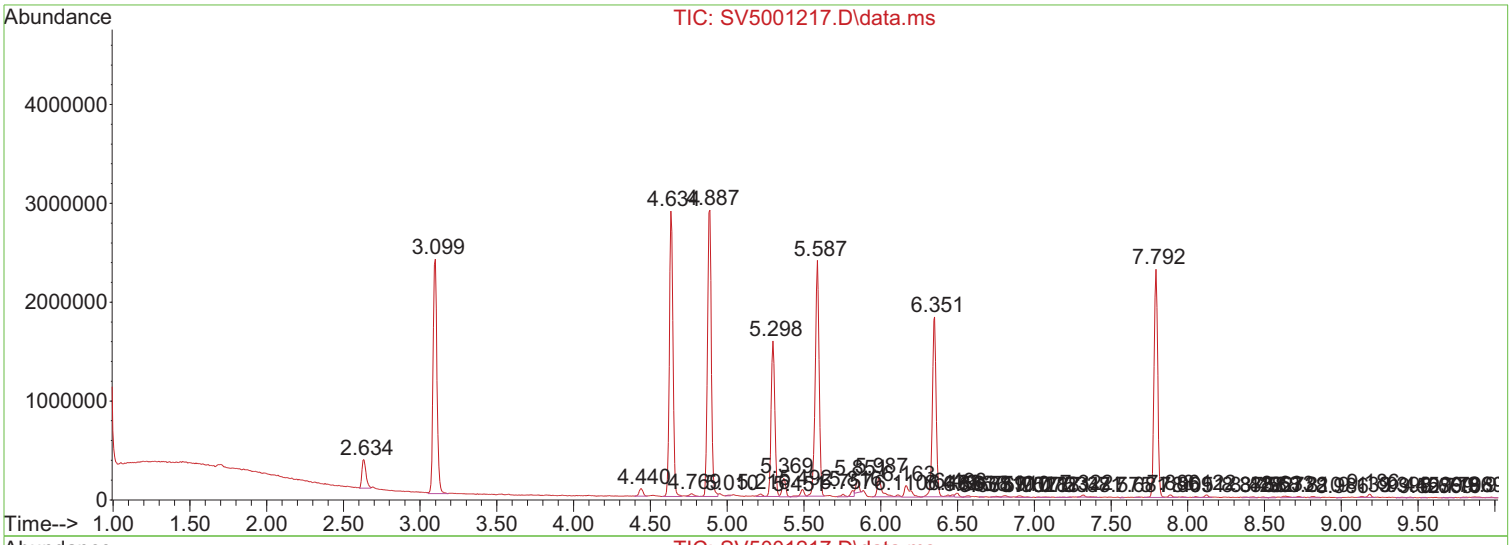
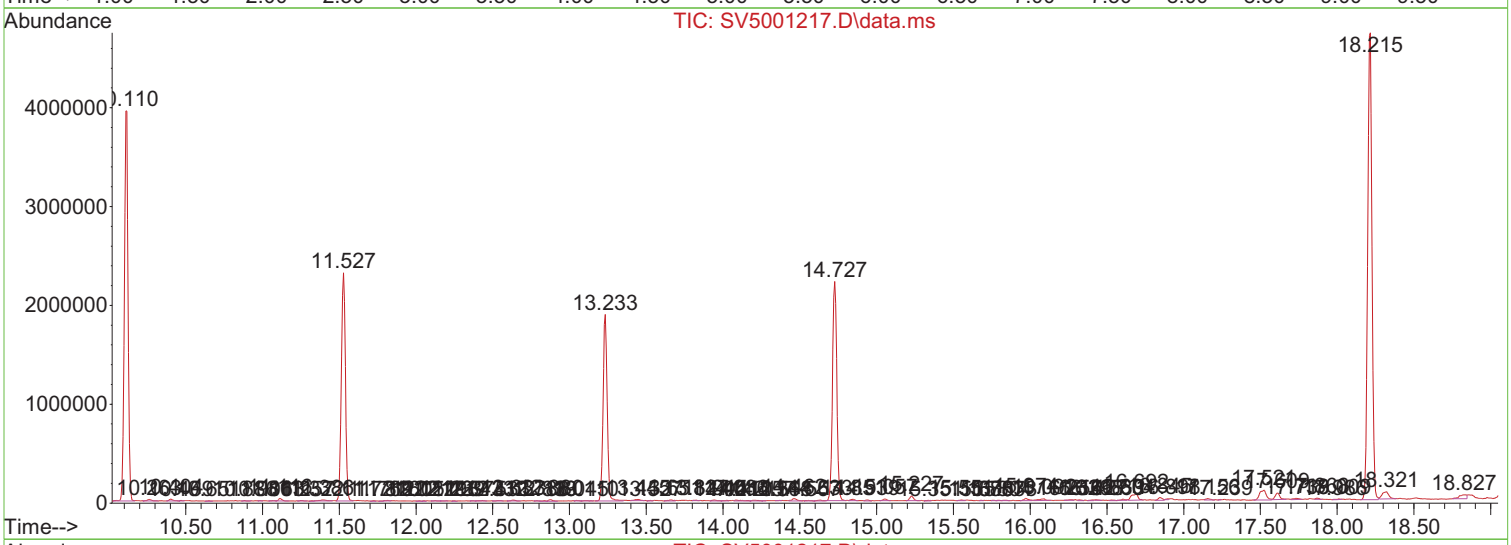
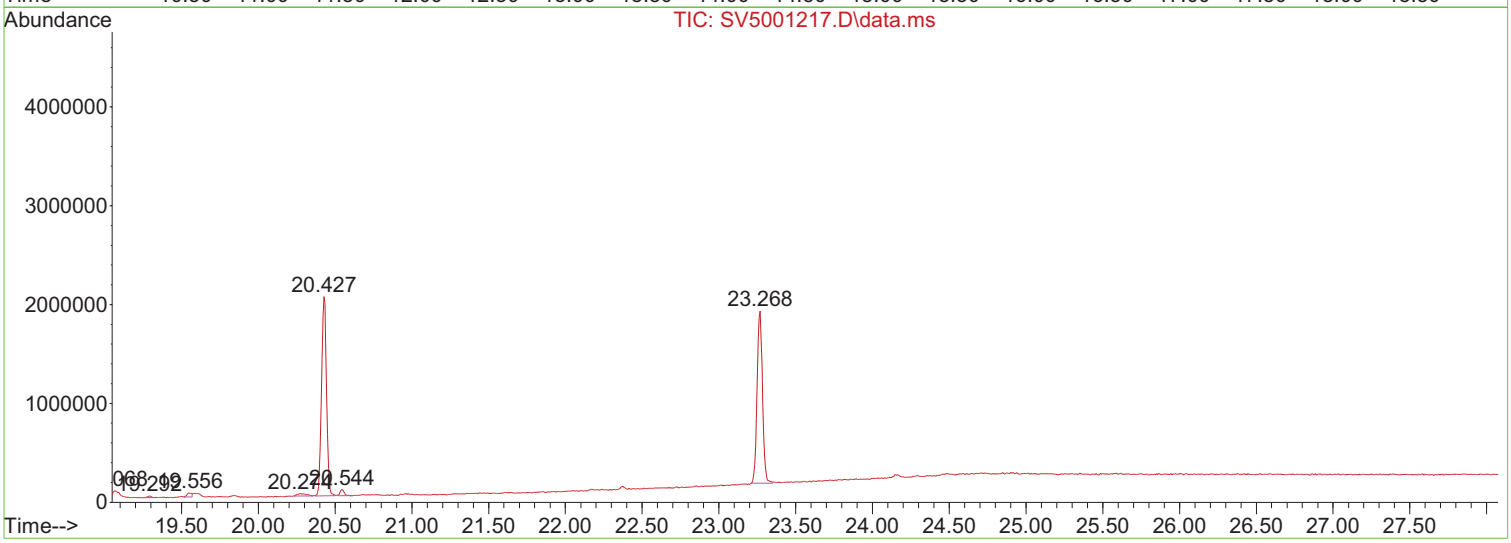
Quantitation Report (QT Reviewed)

Data Path : Q:\SVOA\MS5\0612\062912\
Data File : SV5001217.D
Acq On : 29 Jun 2012 7:45 pm
Operator : IBM
Sample : 1206436-01
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : SVOAMS5

Quant Time: Jul 02 11:55:53 2012
Quant Method : Q:\SVOA\MS5\METHODS\SV5AI.M
Quant Title : 8270 SOIL CAL(1206019) AQ CAL(1206020)
QLast Update : Mon Jul 02 11:51:27 2012
Response via : Initial Calibration



Data Path : Q:\SVOA\MS5\0612\062912\
Data File : SV5001217.D
Acq On : 29 Jun 2012 7:45 pm
Operator : IBM
Sample : 1206436-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Method : Q:\SVOA\MS5\METHODS\SV5AI.M
Quant Title : 8270 SOIL CAL(1206019) AQ CAL(1206020)

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TIC Integration Parameters: RTEINT.P