



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS, 99TH REGIONAL SUPPORT COMMAND
5231 SOUTH SCOTT PLAZA
FORT DIX, NEW JERSEY 08640

ARRC-SNJ-PW-E

September 16, 2014

New York State Department of Environmental Conservation
Division of Environmental Remediation
Attn: Daniel Eaton, Program Manager
625 Broadway
Albany, New York 12233-7015

Re: O'Donovan USAFRC
Final Report Addendum – Additional Indoor Air Sampling Results

Dear Mr. Eaton:

Please find included, as an enclosure to this correspondence, the Final Report Addendum-Additional Indoor Air Sampling Results for the Army-owned portion of the Major James J. O'Donovan AFRC.

Questions or comments regards to this document should be directed to Susan D. Shelton at 609.562.7661 or email Susan.d.Shelton5.ctr@mail.mil.

Sincerely,

Kevin F. Gashlin
Environmental Protection Specialist
DPW

Enclosures:
One (1) CD-ROM

cc:
Shawna Hoppe, USEPA – Region 2
Scarlett McLaughlin, NYDOH



CB&I Federal Services LLC
2790 Mossdale Boulevard
Monroeville, PA 15146
Tel: +1 412-858-1630
Fax: +1 412-858-1654
www.CBI.com

August 13, 2014

U.S Army Corps of Engineers
Attn: Mr. John Hartley
Omaha District Rapid Response
Building 525 Castle Hall
Offutt AFB, Nebraska 68113

Subject: O'Donovan USAFRC
Final Report Addendum – Additional Indoor Air Sampling Results

Dear Mr. Hartley,

CB&I Federal Services LLC (CB&I) has prepared this Indoor Air Assessment Report for the United States Army Corps of Engineers (USACE)-Omaha District, in compliance with the Rapid Response Contract No. W9128F-12-D-0003, Task Order No. 018. The purpose of this investigation was to conduct a breathing zone assessment (BZA) of occupied spaces (indoor air) in the Major James J. O'Donovan United States Armed Forces Reserve Center (USAFRC) buildings located at 90 North Main Avenue, Albany, New York (**Figure 1**).

Background

The O'Donovan USAFRC site is located on a 3.5-acre parcel at 90 North Main Avenue in Albany, New York. The site area of investigation includes the 3.5-acre O'Donovan USAFRC parcel and the adjacent streets (North Main Avenue and Washington Avenue) on two sides of the property. The surrounding area consists of the adjacent Albany High School and residential properties (**Figure 1**).

The O'Donovan USAFRC site was developed for use by the military in 1955 as a 100-man center for conducting United States Army Reserve (USAR) and United States Armed Forces Reserve training. The site was most recently used as a reserve training center for US Army, Navy, and Marine personnel (PARS Environmental, Inc. [PARS], 2012). The USAFRC is in the process of being closed with plans to surplus the property in the future.

As reported in the Site Investigation Report (Shaw Environmental and Infrastructure, Inc. [Shaw], 2013), numerous remedial activities and investigations have been performed at the site. In March and April 2013, Shaw conducted a site investigation to delineate contamination in soil vapor, groundwater and indoor air identified during previous investigations at the site. The results of sampling conducted in 2012 suggested a potential for vapor intrusion (VI) contamination of the neighboring Albany High School and residences, prompting the New York State Department of Environmental Conservation

(NYSDEC) and New York State Department of Health (NYSDOH) to request a time-critical response action.

The groundwater analytical results from the March and April 2013 site investigation show that PCE was present in two locations (MW-2 and MW-3) at concentrations above the New York State Groundwater Quality Standard (NYS GWQS) of 5.0 µg/L. In response to the findings, a remedial investigation plan is currently being developed to address all contaminated media at the installation.

Analytical results from the indoor air sampling event in March 2013 reported numerous detections, specifically: 21 different compounds constituting 127 analytical detections for sub-slab vapor samples and 27 different compounds constituting 139 analytical detections for indoor air samples. Four target compounds (1,1,1-trichloroethane [1,1,1-TCA], carbon tetrachloride, PCE, and trichloroethene [TCE]) were selected as indicators of contamination, as they are the compounds listed in the NYSDOH VI Guidance.

A total of 19 compounds were detected in soil gas. Soil gas results were compared to the USEPA Target Shallow Soil Gas Concentrations (TSSGC) values located in Table 2 of the Office of Solid Waste Emergency Response (OSWER) Draft Vapor Intrusion guidance document. Since the soil to indoor air attenuation factor of the site was unknown, an attenuation factor of 0.1, the lowest value in the table, was used for comparison. TCE was detected in two locations (SV-7 and SV-8) above the USEPA TSSGC guidance value of 22 µg/m³. The USEPA TSSGC guidance was used in lieu of the NYSDEC sub-slab guidance because SV-7 and SV-8 were collected from soil gas implants away from the building foundation.

Based on sample results collected during the site investigation, it was recommended that additional air sampling should be completed during the next heating season (November 15, 2013 through March 31, 2014) to confirm the initial results. Also, due to the uncertainties in the soil to the indoor air attenuation factor at the site, and the detection of TCE above the applicable guidance value, further investigation was recommended for soil gas concurrent with the sub-slab and indoor air sampling. Overall, soil gas results did not indicate a high likelihood of soil vapor intrusion from the AFRC at nearby structures, but for a definitive answer, additional sampling at these locations would be necessary.

Work Scope

Four indoor air samples, one duplicate sample and one ambient air (outdoor) air sample were proposed to be collected on the "Army" side of the building. Sample locations were chosen by USACE to coincide with rooms that were currently occupied by Full-time Staff. However, two of the proposed rooms (RM 116 – 7th LOD Admin and RM 119 – 7th LOD Supply Sgt) were locked and inaccessible. It was noted that the Staff was in the process of moving to a facility in Schenectady, New York and the building was no longer occupied. According to the person interviewed, it was anticipated that the staff

would be completely removed from the facility by June 20th. A flyer indicated that the decommissioning ceremony of the building would occur on Saturday, August 2, 2014 at 1400.

Indoor Air Sampling

On June 12, 2014, CB&I representatives mobilized to the site to document room conditions, complete a limited inspection, and collect air samples. Prior to sampling, the CB&I representatives inventoried any supplies located in the room, documented conditions of windows and air conditioning unit in the rooms, and reviewed the building inspection from the previous year with the site contact to determine if there were any changes made over the year. Additionally, weather conditions (temperature, precipitation, wind speed, etc.) were also documented. At the time of the sampling, the average temperature was 65°F with light winds and light to moderate rainfalls. Field Sheets are included as **Attachment A**.

As discussed previously, only two of the four indoor air sample locations were accessible. Two indoor air samples and one duplicate sample were collected on June 13, 2014 at the locations shown on **Figure 2**. Sample locations were as follows:

- IA-RM104 and IA-DUP – RM 104 / Retention NCO Room
- IA-RM105 – RM 105 / 865th CSH Admin Room

All samples were collected approximately 4 to 5 feet from the ground or floor surface using 6-liter summa canisters over a 24-hour period. The duplicate air samples were collected adjacent to each other; no “T-splitter” was used. A “T-splitter” is a device in the shape of a letter “T” that allows two canisters to collect sample from one point at the same time.

Upon completion of the sampling, CB&I recorded the serial number of each canister and associated regulator on the chain-of-custody and air sampling sheets. The assigned sample identification was then placed on the canister identification tag, and recorded on the chain of custody and field notebook/sample form. The gauge pressure and sample start time were also recorded. A digital photograph of each canister setup and surrounding area was taken for the project files to document the set-up (**Attachment B**). The canisters were shipped under standard chain-of-custody protocol to Chemtech in Mountainside, New Jersey (Chemtech) for volatile organic compound (VOC) analysis via United States Environmental Protection Agency (USEPA) Method TO-15. Results of the air sampling are summarized in **Table 1** and discussed in the following paragraphs.

Ambient Outdoor Air Sampling

One ambient outdoor air (OA-1) sample was collected on June 13, 2013; the outdoor air sample was collected as shown on **Figure 2**. The sample was suspended approximately 4.5-feet above the ground

using summa canisters with a 24-hour regulator. After collection, the sample was sent to Chemtech for VOC analysis by USEPA Method TO-15.

Analytical Results

Analytical results from the indoor air sampling event in June 2014 reported numerous detections, specifically: 17 different compounds. Analytical results are included as **Attachment C**. Four target compounds (1,1,1-TCA) carbon tetrachloride, PCE, and TCE) were selected as indicators of contamination as they were the compounds chosen during the March/April 2013 sampling event. 1,1,1-TCA was not detected in any of the June 2014 indoor air or ambient outdoor air samples. TCE was only detected in the ambient outdoor sample at a concentration of $0.81 \mu\text{g}/\text{m}^3$. PCE was detected in the RM104 sample ($0.27 \mu\text{g}/\text{m}^3$), RM105 sample ($0.34 \mu\text{g}/\text{m}^3$) and ambient outdoor air ($0.68 \mu\text{g}/\text{m}^3$). It was not detected in the RM104 duplicate sample ($<0.2 \mu\text{g}/\text{m}^3$). Carbon tetrachloride was detected at a concentration of $0.38 \mu\text{g}/\text{m}^3$ in all of the samples.

Conclusions/Recommendations

The sample results for the indicator compounds were all below the indoor air threshold concentration and New York indoor air limit, where applicable. However, samples were collected outside of the New York heating season guidance (November 15th – March 31st). Additionally, no sub-slab samples were collected as part of this sampling event.

It is CB&I's understanding that the USAFRC building is now unoccupied. CB&I recommends that an additional round of indoor air sampling be completed (including sub-slab samples) during the heating season should the USAFRC building become occupied.

Sincerely,

Heather A. Fariello, CHMM
Project Scientist
CB&I
Heather Fariello
Phone: (518) 785-2346
E-Mail Address: heather.fariello@cbi.com

Thomas P. Mathison, PMP
Project Manager
CB&I Federal Services
Tom Mathison
(412) 858-1630
tom.mathison@CBIfederalservices.com

Attachments:

Tables

Figures

Attachment A: Field Sheets

Attachment B: Photo Log

Attachment C: Analytical Data

TABLES

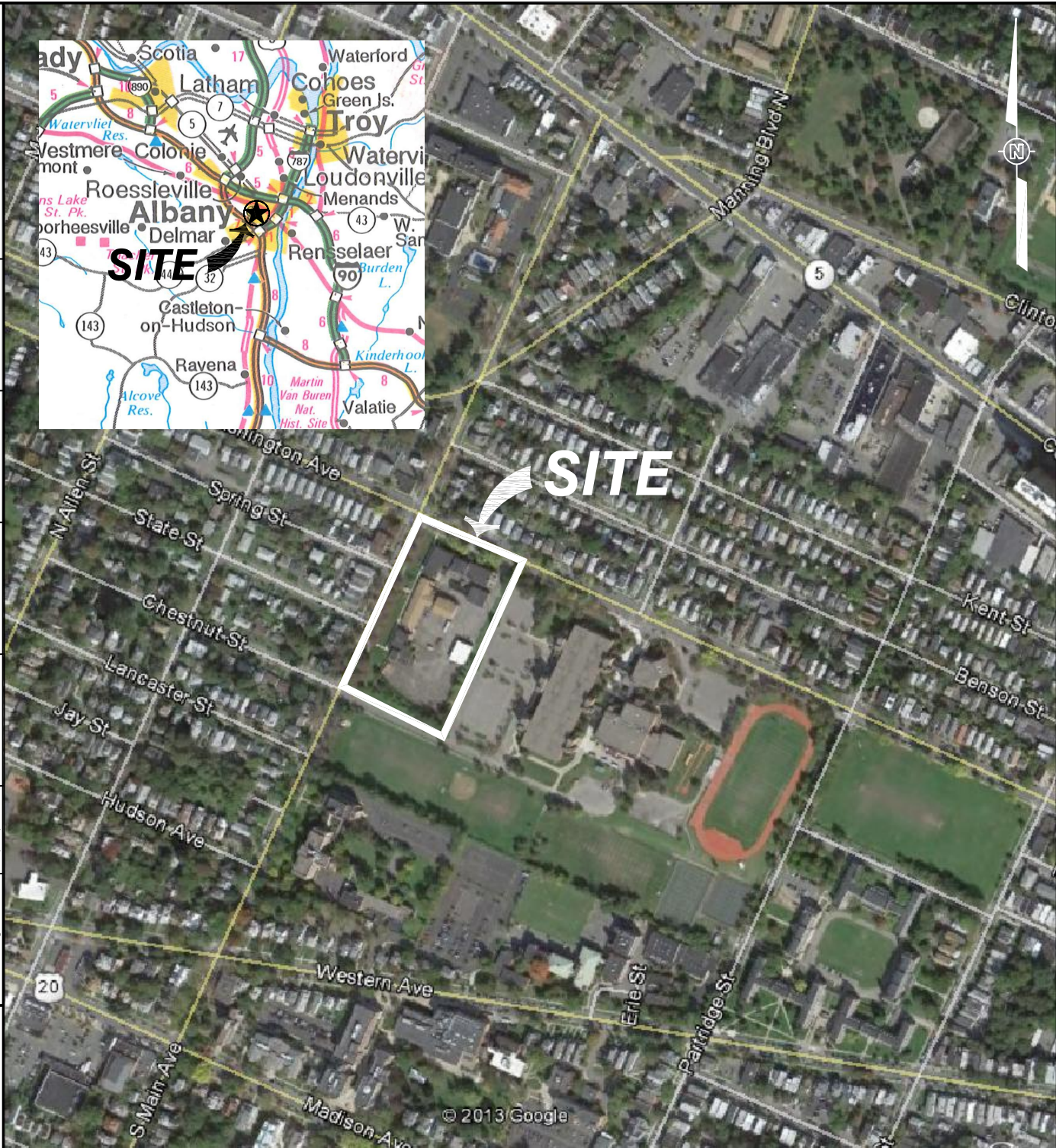
Table 1
O'Donovan Training Center
Ambient Indoor and Outdoor Air Results Summary
June 2014

Chemical	CAS Number	Indoor Air Threshold Conc. ug/m ³		IA-RM 104 12-13 Jun-14		Duplicate (IA-RM104)			IA-RM105 12-Jun-14		OA-1 12-Jun-14		
				F2781-01	Qualifier	F2781-03	Qualifier	RPD	F2781-02	Qualifier		F2781-04	Qualifier
Dichlorodifluoromethane	75-71-8	200		1.73	J	2.82		47.9%	3.02			1.53	J
Chloromethane	74-87-3	90		2.27		2.07		9.2%	1.26			1.3	
Vinyl Chloride	75-01-4	28		0.08	U	0.08	U	Both U	0.08	U		0.08	U
Bromomethane	74-83-9	5		0.39	U	0.39	U	Both U	0.39	U		0.39	U
Chloroethane	75-00-3	10,000		0.26	U	0.26	U	Both U	0.26	U		0.26	U
Trichlorofluoromethane	75-69-4	70		5		4.95		1.0%	2.64	J		1.35	J
1,1-Dichloroethene	75-35-4	200		0.4	U	0.4	U	Both U	0.4	U		0.4	U
Acetone	67-64-1	350		69.8	D	74.1	D	6.0%	25.9			475	D
Carbon Disulfide	75-15-0	700		0.31	U	0.31	U	Both U	0.31	U		0.31	U
Methylene Chloride	75-09-2	60	NY limit	1.77		1.67	J	5.8%	1.32	J		0.69	J
trans-1,2-Dichloroethene	156-60-5	70		0.4	U	0.4	U	Both U	0.4	U		0.4	U
1,1-Dichloroethane	75-34-3	500		0.4	U	0.4	U	Both U	0.4	U		0.4	U
2-Butanone	78-93-3	1,000		3.54		2.95		18.2%	3.24			169	E
Carbon Tetrachloride	56-23-5	16		0.38		0.38		0.0%	0.38			0.38	
Chloroform	67-66-3	11		0.49	U	0.49	U	Both U	0.49	U		0.49	U
1,1,1-Trichloroethane	71-55-6	2,200		0.16	U	0.16	U	Both U	0.16	U		0.16	U
Benzene	71-43-2	31		0.67	J	0.54	J	21.5%	0.61	J		1.15	J
1,2-Dichloroethane	107-06-2	9.4		0.4	U	0.4	U	0.0%	0.4	U		0.4	U
Trichloroethene	79-01-6	5	NY limit	0.16	U	0.16	U	Both U	0.16	U		0.81	
1,2-Dichloropropane	78-87-5	4		0.46	U	0.46	U	Both U	0.46	U		0.46	U
Bromodichloromethane	75-27-4	14		0.67	U	0.67	U	Both U	0.67	U		0.67	U
4-Methyl-2-Pentanone	108-10-1	None Specified		0.41	U	0.37	J	10.3%	0.41	U		0.41	U
Toluene	108-88-3	400		6.03		7.91		27.0%	5.65			10.2	
trans-1,3-Dichloropropene	10061-02-6	20		0.45	U	0.45	U	Both U	0.45	U		0.45	U
cis-1,3-Dichloropropene	10061-01-5	20		0.45	U	0.45	U	Both U	0.45	U		0.45	U
1,1,2-Trichloroethane	79-00-5	15		0.55	U	0.55	U	Both U	0.55	U		0.55	U
2-Hexanone	591-78-6	None Specified		0.49	J	0.45	J	8.5%	0.41	U		35.6	
Dibromochloromethane	124-48-1	10		0.85	U	0.85	U	Both U	0.85	U		0.85	U
Tetrachloroethene	127-18-4	100	NY limit	0.27		0.2	U	INDT	0.34			0.68	
Chlorobenzene	108-90-7	60		0.46	U	0.46	U	0.0%	0.46	U		0.46	U
1,1,1,2-Tetrachloroethane	630-20-6	3.3		0.69	U	0.69	U	0.0%	0.69	U		0.69	U
Ethyl Benzene	100-41-4	220		0.43	U	0.43	U	0.0%	0.43	U		1.69	J
m/p-Xylene	179601-23-1	7,000		5.21		1.48	J	111.5%	1.69	J		6.52	
o-Xylene	95-47-6	7,000		2.3		0.69	J	107.7%	0.65	J		2.08	J
Styrene	100-42-5	1,000		0.47	J	0.43	U	8.9%	0.43	U		0.43	U
Bromoform	75-25-2	220		1.03	U	1.03	U	Both U	1.03	U		1.03	U
1,1,2,2-Tetrachloroethane	79-34-5	4.2		0.21	U	0.21	U	Both U	0.21	U		0.21	U
1,3-Dichlorobenzene	541-73-1	110		0.6	U	0.6	U	Both U	0.6	U		0.6	U
1,4-Dichlorobenzene	106-46-7	800		0.6	U	0.6	U	Both U	0.6	U		0.6	U
1,2-Dichlorobenzene	95-50-1	200		0.6	U	0.6	U	Both U	0.6	U		0.6	U

Results are shown in ug/m³
U- analyte is not detected, concentration is detection limit
J- estimated value, concentration is above detection-limit, but below reporting limit
D- result is from a diluted additional analytical run
INDT-RPD is invalid; one result is U-flagged
Concentrations in **bold** font are above the IA Threshold value

FIGURES

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	--/--	--	--	--	--	149092-A4

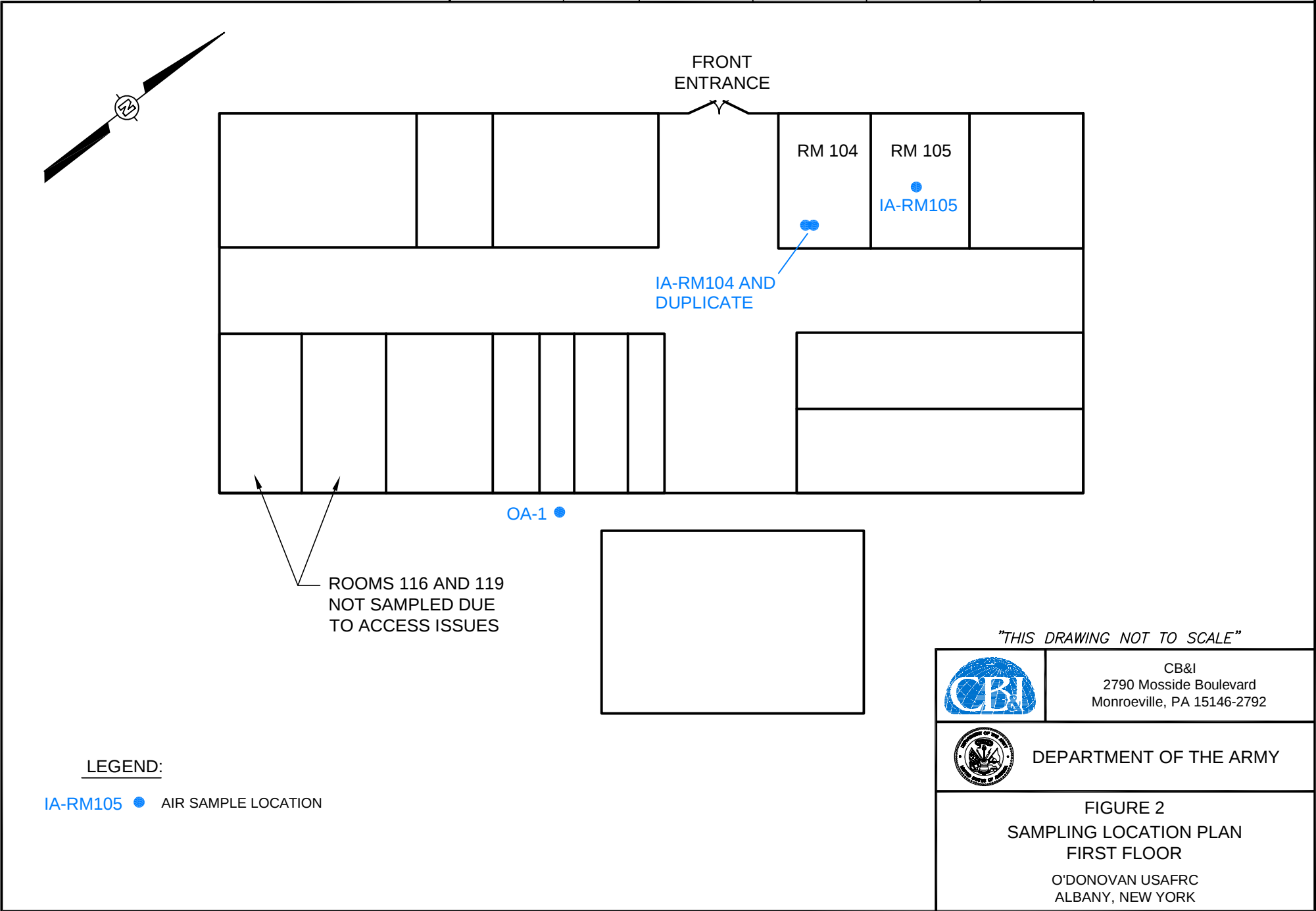


CB&I Federal Services, LLC
 2790 Mossdale Boulevard
 Monroeville, PA 15146

MAJOR JAMES J. O'DONOVAN
 UNITED STATES ARMED FORCES RESERVE CENTER
 ALBANY, NEW YORK

FIGURE 1
 SITE LOCATION MAP

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	7/25/14	T. MATHISON	B. Faison	T. Mathison	--	500205-A1



ATTACHMENT A

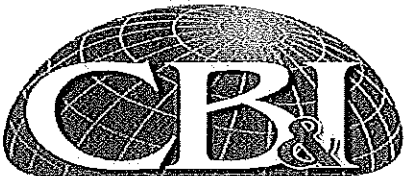
Field Sheets

		Project Name and No: Albany USAFRC / 7750025.00010200	
		Date: 6/12/14 - 6/13/14	
		Sampler(s): RA + HAF	
Sample ID: 1A - RM105		Address / Location USAFRC Washington Ave Albany, NY	
Weather Conditions: Th 62 F, Cloudy, 84% hum, 57 dp, wind S 7 mph, pressure = 1019.2 mb			
PID Meter Used: ppb Rae 3000		He LD Meter Used: Purge Pump Used:	
	Soil Gas	Ambient	Comments
SUMMA CANISTER RECORD			
Canister Serial No.:		10279	windows closed
Flow Controller No.:		10476	a/c off
Start Date / Time		6/12/14 1121	
Stop Date / Time		6/13/14 0844	
Start / Stop Pressure (in. Hg)		27 / 3.5	
DUPLICATE SAMPLE ID		—	
Approximate GW Depth:		N/A	
Air Temp (°C or °F):		170	
Direction / Distance from Bldg. or Structure:		—	
Distance to roadway:		—	
Intake Height / Depth (feet)		4' 4"	on desk
Noticeable Odor?		musty	
PID Reading (ppb):		200	
He Dector Reading (% or ppm He): Leak Test result: Pass/Fail		N/A	
Sample Analysis:		To-15	
Container Description:		good	
Photo Taken: Yes / No		yes	

hand sanitizer 588 ppb
 air freshener - french vanilla 283 ppb
 white-out (bic) - 800 ppb

F. 67 F rain 88% hum, 64° dp, 1011.5 mb
 wind ESE 4 mph

		Project Name and No: Albany USAFRC / 7750025.0010200	
		Date: 6/12/14 - 6/13/14	
		Sampler(s): RA + HAF	
Sample ID: HAF 6/12/14 AA OA-1		Address / Location USAFRC Albany, NY	
Weather Conditions: 62 F, cloudy/light rain, 84% hum, 57' dp, wind S 7mph, pres 1019.2 mb			
PID Meter Used: ppb Rae 3000		He LD Meter Used: —	
Purge Pump Used: —			
	Soil Gas	Ambient	Comments
SUMMA CANISTER RECORD			
Canister Serial No.:		10313	
Flow Controller No.:		10190	
Start Date / Time		6/12/14 1146	
Stop Date / Time		6/13/14 1109	
Start / Stop Pressure (in. Hg)		+30 / 5	
DUPLICATE SAMPLE ID		—	
Approximate GW Depth:		—	
Air Temp (°C or °F):		62	
Direction / Distance from Bldg. or Structure:		18"	
Distance to roadway:			
Intake Height / Depth (feet)		3' 3" 4' 4" HAF 6/12/14	
Noticeable Odor?		NO	
PID Reading (ppb):		0.0	
He Dector Reading (% or ppm He): Leak Test result: Pass/Fail		N/A	
Sample Analysis:		T0-15	
Container Description:		good	
Photo Taken: Yes / No		yes	

		Project Name and No: Albany USAFRC / 7750025.00010200	
		Date: 6/12/14 - 6/13/14	
		Sampler(s): RA + HAF	
Sample ID: 1A - RM104		Address / Location USAFRC Albany, NY	
Weather Conditions: 62°F, cloudy, 84% humidity, 57° dp, wind S 7mph, press = 1019.2 mb			
PID Meter Used: ppb Rae 3000		He LD Meter Used: _____	
		Purge Pump Used: _____	
	Soil Gas	Ambient	HAF - Comments duplicate
SUMMA CANISTER RECORD			
Canister Serial No.:		10281	10291
Flow Controller No.:		10505	10619
Start Date / Time		6/12/14 1131	6/12/14 1131
Stop Date / Time		6/13/14 1103	6/13/14 1103
Start / Stop Pressure (in. Hg)		+30 / 6	+30 / 5
DUPLICATE SAMPLE ID		—	Duplicate
Approximate GW Depth:		—	—
Air Temp (°C or °F):		~70 F	~70 F
Direction / Distance from Bldg. or Structure:		—	—
Distance to roadway:		—	—
Intake Height / Depth (feet)		4' 3"	4' 3"
Noticeable Odor?		No	No
PID Reading (ppb):		490	490
He Detector Reading (% or ppm He): Leak Test result: Pass/Fail		N/A	N/A
Sample Analysis:		To-15	To-15
Container Description:		good	good
Photo Taken: Yes / No		yes	yes

* window closed, a/c off

Shredder oil - 0 ppb

ATTACHMENT B

Photo Log

CB&I Federal Services LLC
Photographic Record

Customer: USACOE

Project Number: 500205

Site Name: O'Donovan USAFRC

Site Location: Albany, New York

Photographer:

RA

Date:

June 12, 2014

Direction:

Northeast

Comments:

Major O'Donovan
United States Armed
Forces Reserve
Center (USAFRC)



Photographer:

HAF

Date:

June 12, 2014

Direction:

West/Northwest

Comments:

Ambient Outdoor Air
Sample



CB&I Federal Services LLC
Photographic Record

Customer: USACOE

Project Number: 500205

Site Name: O'Donovan USAFRC

Site Location: Albany, New York

Photographer:

RA

Date:

June 12, 2014

Direction:

North

Comments:

IA-RM105



Photographer:

HAF

Date:

June 12, 2014

Direction:

Northwest

Comments:

IA-RM104 and
duplicate



O'Donovan USAFRC # 500205.docx



**CB&I Federal Services LLC
Photographic Record**

Customer: USACOE		Project Number: 500205	
Site Name: O'Donovan USAFRC		Site Location: Albany, New York	
Photographer: RA			
Date: June 12, 2014			
Direction: Not Applicable			
Comments: Bic Cover-it			
Photographer: HAF			
Date: June 12, 2014			
Direction: Not Applicable			
Comments: Dahle			

O'Donovan USAFRC # 500205.docx



ATTACHMENT C

Analytical Data

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : ALBANY AIR

CB&I FEDERAL SERVICES LLC

2790 Mosside Boulevard

Monroeville, PA - 15146-2792

Phone No: 412-858-3305

ORDER ID : F2781

ATTENTION : Guy Gallelo, Jr



DoD ELAP

Table Of Contents for F2781

1) Signature Page	3
2) Case Narrative	4
2.1) VOCMS Group2- Case Narrative	4
3) Qualifier Page	9
4) QA Checklist	10
5) VOCMS Group2 Data	11
6) Shipping Document	64
6.1) CHAIN OF CUSTODY	65
6.2) Air Bill	69
6.3) Lab Certificate	71
6.4) Internal COC	72
6.5) Air Sample Pressure & Dilution Log book	73
6.6) Storage Location Lable	74

1
2
3
4
5
6

Cover Page

Order ID : F2781

Project ID : Albany Air

Client : CB&I Federal Services LLC

Lab Sample Number

F2781-01
F2781-02
F2781-03
F2781-04

Client Sample Number

IA-RM104
IA-RM105
DUPLICATE
OA-1

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :



APPROVED

By Mildred V Reyes at 3:03 pm, Jul 01, 2014

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

CB&I Federal Services LLC

Project Name: Albany Air

Project # N/A

Chemtech Project # F2781

Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

4 Air samples were received on 06/18/2014.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of VOCMS Group2 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for OA-1DL.

The Retention Times were acceptable for all samples.

The Blank Spike for {VL0618ABS} with File ID: VL023225.D met requirements for all samples except for Dichlorodifluoromethane[55%] .

The Duplicate Samples for {F2781-04DUP} with File ID: VL023227.D met requirements for all samples except for Dichlorodifluoromethane[66.7%] .

The Blank analysis indicated presence of Acetone 0.4ug/m3[0.17 ppbv]

FileID:VL023224.D{VL0618ABL}, Methylene Chloride 0.35ug/m3[0.1 ppbv]

FileID:VL023224.D{VL0618ABL} due to possible lab contamination.

The Initial Calibration met the requirements .The Initial Calibration met the requirements except for 1,1,1-Trichloroethane have more than 30% RSD in the Initial Calibration with dated 06/17/2014 with L Instrument but as per method two compounds as allowed to be failed.

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Samples IA-RM104, DUPLICATE and OA-1 were diluted due to high concentrations.

E. Additional Comments:

Manual Integration Report				
Sequence	VL061714	Instrument	MSVOA_I	

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL023193.D	Chlorobenzene-d5	sonal	6/17/2014 7:17:19 AM	sam	6/17/2014 5:16:44 PM	Coelution Of the peak
VSTDICCC002	VL023194.D	Ethanol	sonal	6/17/2014 7:17:21 AM	sam	6/17/2014 5:16:20 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL023194.D	m/p-Xylene	sonal	6/17/2014 7:17:21 AM	sam	6/17/2014 5:16:20 PM	Peak Integrated by Software incorrectly
VSTDICCC001	VL023197.D	1,4-Dioxane	sonal	6/17/2014 7:17:23 AM	sam	6/17/2014 5:16:31 PM	Peak Integrated by Software incorrectly
VSTDICCC001	VL023197.D	Ethanol	sonal	6/17/2014 7:17:23 AM	sam	6/17/2014 5:16:31 PM	Peak Integrated by Software incorrectly
VSTDICCC0.5	VL023198.D	Ethanol	sonal	6/17/2014 7:17:25 AM	sam	6/17/2014 5:17:40 PM	Peak Integrated by Software incorrectly
VSTDICCC015	VL023199.D	Chlorobenzene-d5	sonal	6/17/2014 7:17:27 AM	sam	6/17/2014 5:16:58 PM	Coelution Of the peak
VSTDICV010	VL023200.D	Chlorobenzene-d5	sonal	6/17/2014 8:06:44 AM	sam	6/17/2014 5:18:18 PM	Coelution Of the peak

Manual Integration Report				
Sequence	VL061814	Instrument	MSVOA_I	

Instrument	MSVOA_I
------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL023223.	Chlorobenzene-d5	sonal	6/19/20	sam	6/19/2014	Coelution Of

	D			14 9:01:59 AM		10:40:33 AM	the peak
VL0618ABL	VL023224. D	1,2,4-Trichlorobenzene	sonal	6/19/20 14 9:02:01 AM	sam	6/19/2014 10:40:41 AM	Peak Integrated by Software incorrectly
VL0618ABL	VL023224. D	Tetrachloroethene	sonal	6/19/20 14 9:02:01 AM	sam	6/19/2014 10:40:41 AM	Peak Integrated by Software incorrectly
VL0618ABS	VL023225. D	Chlorobenzene-d5	sonal	6/19/20 14 9:02:02 AM	sam	6/19/2014 10:40:52 AM	Coelution Of the peak
F2781-04	VL023226. D	1,1,2- Trichlorotrifluoroethane	sonal	6/19/20 14 9:02:04 AM	MMDadoda	6/19/2014 10:57:01 AM	Peak Integrated by Software incorrectly
F2781-04	VL023226. D	1,3,5-Trimethylbenzene	sonal	6/19/20 14 9:02:04 AM	MMDadoda	6/19/2014 10:57:01 AM	Peak Integrated by Software incorrectly
F2781-04	VL023226. D	Acetone	sonal	6/19/20 14 9:02:04 AM	MMDadoda	6/19/2014 10:57:01 AM	Peak Integrated by Software incorrectly
F2781-04DUP	VL023227. D	1,1,2- Trichlorotrifluoroethane	sonal	6/19/20 14 9:02:05 AM	MMDadoda	6/19/2014 10:57:15 AM	Peak Integrated by Software incorrectly
F2781-04DUP	VL023227. D	1,3,5-Trimethylbenzene	sonal	6/19/20 14 9:02:05 AM	MMDadoda	6/19/2014 10:57:15 AM	Peak Integrated by Software incorrectly
F2781-04DUP	VL023227. D	Acetone	sonal	6/19/20 14 9:02:05 AM	MMDadoda	6/19/2014 10:57:15 AM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
F2781-02	VL023229. D	1,1,2- Trichlorotrifluoroethane	sam	6/19/201 4 10:41:09 AM	MMDadoda	6/19/2014 10:57:30 AM	Peak Integrated by Software incorrectly
F2781-02	VL023229. D	2,2,4-Trimethylpentane	sam	6/19/201 4 10:41:09 AM	MMDadoda	6/19/2014 10:57:30 AM	Peak Integrated by Software incorrectly
F2781-02	VL023229. D	Ethyl Benzene	sam	6/19/201 4 10:41:09	MMDadoda	6/19/2014 10:57:30 AM	Peak Integrated by Software

				AM			incorrectly
F2781-02	VL023229.D	Hexane	sam	6/19/2014 10:41:09 AM	MMDadoda	6/19/2014 10:57:30 AM	Peak Integrated by Software incorrectly
F2781-02	VL023229.D	Naphthalene	sam	6/19/2014 10:41:09 AM	MMDadoda	6/19/2014 10:57:30 AM	Peak Integrated by Software incorrectly
F2781-02	VL023229.D	Styrene	sam	6/19/2014 10:41:09 AM	MMDadoda	6/19/2014 10:57:30 AM	Peak Integrated by Software incorrectly
F2781-01	VL023231.D	1,1,2-Trichlorotrifluoroethane	sonal	6/19/2014 9:02:11 AM	MMDadoda	6/19/2014 10:59:26 AM	Peak Integrated by Software incorrectly
F2781-01	VL023231.D	2-Butanone	sonal	6/19/2014 9:02:11 AM	MMDadoda	6/19/2014 10:59:26 AM	Peak Integrated by Software incorrectly
F2781-01	VL023231.D	Chlorodifluoromethane	sonal	6/19/2014 9:02:11 AM	MMDadoda	6/19/2014 10:59:26 AM	Peak Integrated by Software incorrectly
F2781-01	VL023231.D	Hexane	sonal	6/19/2014 9:02:11 AM	MMDadoda	6/19/2014 10:59:26 AM	Peak Integrated by Software incorrectly
F2781-01	VL023231.D	p-Isopropyltoluene	sonal	6/19/2014 9:02:11 AM	MMDadoda	6/19/2014 10:59:26 AM	Peak Integrated by Software incorrectly
F2781-01DL	VL023232.D	Toluene	sam	6/19/2014 10:41:25 AM	MMDadoda	6/19/2014 10:59:46 AM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
F2781-03	VL023234.D	1,1,2-Trichlorotrifluoroethane	sonal	6/19/2014 9:02:13 AM	MMDadoda	6/19/2014 10:59:59 AM	Peak Integrated by Software incorrectly
F2781-03	VL023234.D	Chlorodifluoromethane	sonal	6/19/2014 9:02:13 AM	MMDadoda	6/19/2014 10:59:59 AM	Peak Integrated by Software incorrectly
F2781-03	VL023234.D	Hexane	sonal	6/19/2014 9:02:13 AM	MMDadoda	6/19/2014 10:59:59 AM	Peak Integrated by Software incorrectly

F2781-04DL	VL023238.D	Ethanol	sonal	6/19/2014 9:22:47 AM	sam	6/19/2014 10:42:03 AM	Peak Integrated by Software incorrectly
------------	------------	---------	-------	----------------------	-----	-----------------------	---

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature__

**APPROVED***By Mildred V Reyes at 3:03 pm, Jul 01, 2014*

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: F2781

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: DRAMANI

Date: 06/28/2014

REVIEWED

By kalpana at 2:16 pm, Jul 01, 2014

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

OrderID: F2781
Client: CB&I Federal Services LLC
Contact: Guy Gallelo, Jr

OrderDate: 6/18/2014 11:43:00 AM
Project: Albany Air
Location: Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
F2781-01	IA-RM104	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/18/14	
F2781-01DL	IA-RM104DL	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/19/14	
F2781-02	IA-RM105	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/18/14	
F2781-03	DUPLICATE	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/19/14	
F2781-03DL	DUPLICATEDL	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/19/14	
F2781-04	OA-1	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/18/14	
F2781-04DL	OA-1DL	Air			06/13/14			06/18/14
			VOCMS Group2	TO-15			06/19/14	

Hit Summary Sheet SW-846

SDG No.: F2781

Client: CB&I Federal Services LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	IA-RM104								
F2781-01	IA-RM104	Air	Dichlorodifluoromethane	0.35	JQ	0.04	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Chloromethane	1.10		0.1	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Trichlorofluoromethane	0.89		0.04	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Acetone	29.80	EB	0.1	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Methylene Chloride	0.51	B	0.05	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	2-Butanone	1.20		0.1	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Carbon Tetrachloride	0.06		0.03	0.015	0.03	ppbv
F2781-01	IA-RM104	Air	Benzene	0.21	J	0.04	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Trichloroethene	0.03		0.02	0.015	0.03	ppbv
F2781-01	IA-RM104	Air	Toluene	1.60		0.05	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	2-Hexanone	0.12	J	0.1	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Tetrachloroethene	0.04		0.03	0.015	0.03	ppbv
F2781-01	IA-RM104	Air	m/p-Xylene	1.20		0.1	0.5	1	ppbv
F2781-01	IA-RM104	Air	o-Xylene	0.53		0.1	0.25	0.5	ppbv
F2781-01	IA-RM104	Air	Styrene	0.11	J	0.1	0.25	0.5	ppbv
Total Voc :				37.75					
Total Concentration:				37.75					
Client ID:	IA-RM104DL								
F2781-01DL	IA-RM104DL	Air	Acetone	29.40	DB	1	2.5	5	ppbv
F2781-01DL	IA-RM104DL	Air	Toluene	0.80	JD	0.5	2.5	5	ppbv
Total Voc :				30.20					
Total Concentration:				30.20					
Client ID:	IA-RM105								
F2781-02	IA-RM105	Air	Dichlorodifluoromethane	0.61	Q	0.04	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Chloromethane	0.61		0.1	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Trichlorofluoromethane	0.47	J	0.04	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Acetone	10.90	B	0.1	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Methylene Chloride	0.38	JB	0.05	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	2-Butanone	1.10		0.1	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Carbon Tetrachloride	0.06		0.03	0.015	0.03	ppbv
F2781-02	IA-RM105	Air	Benzene	0.19	J	0.04	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Toluene	1.50		0.05	0.25	0.5	ppbv
F2781-02	IA-RM105	Air	Tetrachloroethene	0.05		0.03	0.015	0.03	ppbv
F2781-02	IA-RM105	Air	m/p-Xylene	0.39	J	0.1	0.5	1	ppbv
F2781-02	IA-RM105	Air	o-Xylene	0.15	J	0.1	0.25	0.5	ppbv
Total Voc :				16.41					
Total Concentration:				16.41					

Hit Summary Sheet SW-846

SDG No.: F2781
Client: CB&I Federal Services LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	DUPLICATE								
F2781-03	DUPLICATE	Air	Dichlorodifluoromethane	0.57	Q	0.04	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	Chloromethane	1.00		0.1	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	Trichlorofluoromethane	0.88		0.04	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	Acetone	30.80	EB	0.1	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	Methylene Chloride	0.48	JB	0.05	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	2-Butanone	1.00		0.1	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	Carbon Tetrachloride	0.06		0.03	0.015	0.03	ppbv
F2781-03	DUPLICATE	Air	Benzene	0.17	J	0.04	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	4-Methyl-2-Pentanone	0.09	J	0.05	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	Toluene	2.10		0.05	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	2-Hexanone	0.11	J	0.1	0.25	0.5	ppbv
F2781-03	DUPLICATE	Air	m/p-Xylene	0.34	J	0.1	0.5	1	ppbv
F2781-03	DUPLICATE	Air	o-Xylene	0.16	J	0.1	0.25	0.5	ppbv
Total Voc :				37.76					
Total Concentration:				37.76					
Client ID:	DUPLICATEDL								
F2781-03DL	DUPLICATEDL	Air	Acetone	31.20	DB	1	2.5	5	ppbv
F2781-03DL	DUPLICATEDL	Air	Toluene	1.10	JD	0.5	2.5	5	ppbv
Total Voc :				32.30					
Total Concentration:				32.30					
Client ID:	OA-1								
F2781-04	OA-1	Air	Dichlorodifluoromethane	0.31	JQ	0.04	0.25	0.5	ppbv
F2781-04	OA-1	Air	Chloromethane	0.63		0.1	0.25	0.5	ppbv
F2781-04	OA-1	Air	Trichlorofluoromethane	0.24	J	0.04	0.25	0.5	ppbv
F2781-04	OA-1	Air	Acetone	170.00	EB	0.1	0.25	0.5	ppbv
F2781-04	OA-1	Air	Methylene Chloride	0.20	JB	0.05	0.25	0.5	ppbv
F2781-04	OA-1	Air	2-Butanone	57.50	E	0.1	0.25	0.5	ppbv
F2781-04	OA-1	Air	Carbon Tetrachloride	0.06		0.03	0.015	0.03	ppbv
F2781-04	OA-1	Air	Benzene	0.36	J	0.04	0.25	0.5	ppbv
F2781-04	OA-1	Air	Trichloroethene	0.15		0.02	0.015	0.03	ppbv
F2781-04	OA-1	Air	Toluene	2.70		0.05	0.25	0.5	ppbv
F2781-04	OA-1	Air	2-Hexanone	8.70		0.1	0.25	0.5	ppbv
F2781-04	OA-1	Air	Tetrachloroethene	0.10		0.03	0.015	0.03	ppbv
F2781-04	OA-1	Air	Ethyl Benzene	0.39	J	0.1	0.25	0.5	ppbv
F2781-04	OA-1	Air	m/p-Xylene	1.50		0.1	0.5	1	ppbv
F2781-04	OA-1	Air	o-Xylene	0.48	J	0.1	0.25	0.5	ppbv
Total Voc :				243.32					
Total Concentration:				243.32					

Hit Summary Sheet

SW-846

SDG No.: F2781

Client: CB&I Federal Services LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: OA-1DL									
F2781-04DL	OA-1DL	Air	Acetone	200.00	DB	4	10	20	ppbv
F2781-04DL	OA-1DL	Air	2-Butanone	36.00	D	4	10	20	ppbv
Total Voc :				236.00					
Total Concentration:				236.00					

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : IA-RM104

Analysis Date : 06/18/14

Laboratory Id Number : F2781-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.35	J	1.73		
Chloromethane	74-87-3	50.49	1.1		2.27		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.1	U	0.39		
Chloroethane	75-00-3	64.52	0.1	U	0.26		
Trichlorofluoromethane	75-69-4	137.4	0.89		5		
1,1-Dichloroethene	75-35-4	96.94	0.1	U	0.4		
Acetone	67-64-1	58.08	29.8	E	70.8		
Carbon Disulfide	75-15-0	76.14	0.1	U	0.31		
Methylene Chloride	75-09-2	84.94	0.51		1.77		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.1	U	0.4		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
Benzene	71-43-2	78.11	0.21	J	0.67		
1,2-Dichloroethane	107-06-2	98.96	0.1	U	0.4		
Trichloroethene	79-01-6	131.4	0.03		0.16		
1,2-Dichloropropane	78-87-5	113	0.1	U	0.46		
Bromodichloromethane	75-27-4	163.8	0.1	U	0.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	1.6		6.03		
t-1,3-Dichloropropene	10061-02-6	111	0.1	U	0.45		
cis-1,3-Dichloropropene	10061-01-5	111	0.1	U	0.45		
1,1,2-Trichloroethane	79-00-5	133.4	0.1	U	0.55		
2-Hexanone	591-78-6	100	0.12	J	0.49		
Dibromochloromethane	124-48-1	208.3	0.1	U	0.85		
Tetrachloroethene	127-18-4	165.8	0.04		0.27		
Chlorobenzene	108-90-7	112.6	0.1	U	0.46		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	0.1	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.1	U	0.43		
m/p-Xylene	179601-23-1	106.2	1.2		5.21		
o-Xylene	95-47-6	106.2	0.53		2.3		
Styrene	100-42-5	104.1	0.11	J	0.47		
Bromoform	75-25-2	252.8	0.1	U	1.03		

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : IA-RM104

Analysis Date : 06/18/14

Laboratory Id Number : F2781-01

Target Analyts : Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
1,3-Dichlorobenzene	541-73-1	147	0.1	U	0.6		
1,4-Dichlorobenzene	106-46-7	147	0.1	U	0.6		
1,2-Dichlorobenzene	95-50-1	147	0.1	U	0.6		

A

B

C

D

E

F

G

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : IA-RM104DL

Analysis Date : 06/19/14

Laboratory Id Number : F2781-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1	UD	4.94		
Chloromethane	74-87-3	50.49	1	UD	2.07		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	1	UD	3.88		
Chloroethane	75-00-3	64.52	1	UD	2.64		
Trichlorofluoromethane	75-69-4	137.4	1	UD	5.62		
1,1-Dichloroethene	75-35-4	96.94	1	UD	3.96		
Acetone	67-64-1	58.08	29.4	D	69.8		
Carbon Disulfide	75-15-0	76.14	1	UD	3.11		
Methylene Chloride	75-09-2	84.94	1	UD	3.47		
trans-1,2-Dichloroethene	156-60-5	96.94	1	UD	3.96		
1,1-Dichloroethane	75-34-3	98.96	1	UD	4.05		
2-Butanone	78-93-3	72.11	1	UD	2.95		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
Chloroform	67-66-3	119.4	1	UD	4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
Benzene	71-43-2	78.11	1	UD	3.19		
1,2-Dichloroethane	107-06-2	98.96	1	UD	4.05		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	1	UD	4.62		
Bromodichloromethane	75-27-4	163.8	1	UD	6.7		
4-Methyl-2-Pentanone	108-10-1	100.2	1	UD	4.1		
Toluene	108-88-3	92.14	0.8	JD	3.01		
t-1,3-Dichloropropene	10061-02-6	111	1	UD	4.54		
cis-1,3-Dichloropropene	10061-01-5	111	1	UD	4.54		
1,1,2-Trichloroethane	79-00-5	133.4	1	UD	5.46		
2-Hexanone	591-78-6	100	1	UD	4.09		
Dibromochloromethane	124-48-1	208.3	1	UD	8.52		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1	UD	4.61		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	1	UD	6.87		
Ethyl Benzene	100-41-4	106.2	1	UD	4.34		
m/p-Xylene	179601-23-1	106.2	2	UD	8.69		
o-Xylene	95-47-6	106.2	1	UD	4.34		
Styrene	100-42-5	104.1	1	UD	4.26		
Bromoform	75-25-2	252.8	1	UD	10.3		

Project : Albany Air**Sampling Date :** 06/13/14**Field Id Number :** IA-RM104DL**Analysis Date :** 06/19/14**Laboratory Id Number :** F2781-01DL**Target Analyts :** Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.3	UD	2.06		
1,3-Dichlorobenzene	541-73-1	147	1	UD	6.01		
1,4-Dichlorobenzene	106-46-7	147	1	UD	6.01		
1,2-Dichlorobenzene	95-50-1	147	1	UD	6.01		

A

B

C

D

E

F

G

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : IA-RM105

Analysis Date : 06/18/14

Laboratory Id Number : F2781-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.61		3.02		
Chloromethane	74-87-3	50.49	0.61		1.26		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.1	U	0.39		
Chloroethane	75-00-3	64.52	0.1	U	0.26		
Trichlorofluoromethane	75-69-4	137.4	0.47	J	2.64		
1,1-Dichloroethene	75-35-4	96.94	0.1	U	0.4		
Acetone	67-64-1	58.08	10.9		25.9		
Carbon Disulfide	75-15-0	76.14	0.1	U	0.31		
Methylene Chloride	75-09-2	84.94	0.38	J	1.32		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.1	U	0.4		
2-Butanone	78-93-3	72.11	1.1		3.24		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
Benzene	71-43-2	78.11	0.19	J	0.61		
1,2-Dichloroethane	107-06-2	98.96	0.1	U	0.4		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.1	U	0.46		
Bromodichloromethane	75-27-4	163.8	0.1	U	0.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	1.5		5.65		
t-1,3-Dichloropropene	10061-02-6	111	0.1	U	0.45		
cis-1,3-Dichloropropene	10061-01-5	111	0.1	U	0.45		
1,1,2-Trichloroethane	79-00-5	133.4	0.1	U	0.55		
2-Hexanone	591-78-6	100	0.1	U	0.41		
Dibromochloromethane	124-48-1	208.3	0.1	U	0.85		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.1	U	0.46		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	0.1	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.1	U	0.43		
m/p-Xylene	179601-23-1	106.2	0.39	J	1.69		
o-Xylene	95-47-6	106.2	0.15	J	0.65		
Styrene	100-42-5	104.1	0.1	U	0.43		
Bromoform	75-25-2	252.8	0.1	U	1.03		

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : IA-RM105

Analysis Date : 06/18/14

Laboratory Id Number : F2781-02

Target Analyts : Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
1,3-Dichlorobenzene	541-73-1	147	0.1	U	0.6		
1,4-Dichlorobenzene	106-46-7	147	0.1	U	0.6		
1,2-Dichlorobenzene	95-50-1	147	0.1	U	0.6		

A
B
C
D
E
F
G

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : DUPLICATE

Analysis Date : 06/19/14

Laboratory Id Number : F2781-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.57		2.82		
Chloromethane	74-87-3	50.49	1		2.07		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.1	U	0.39		
Chloroethane	75-00-3	64.52	0.1	U	0.26		
Trichlorofluoromethane	75-69-4	137.4	0.88		4.95		
1,1-Dichloroethene	75-35-4	96.94	0.1	U	0.4		
Acetone	67-64-1	58.08	30.8	E	73.2		
Carbon Disulfide	75-15-0	76.14	0.1	U	0.31		
Methylene Chloride	75-09-2	84.94	0.48	J	1.67		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.1	U	0.4		
2-Butanone	78-93-3	72.11	1		2.95		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
Benzene	71-43-2	78.11	0.17	J	0.54		
1,2-Dichloroethane	107-06-2	98.96	0.1	U	0.4		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.1	U	0.46		
Bromodichloromethane	75-27-4	163.8	0.1	U	0.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	J	0.37		
Toluene	108-88-3	92.14	2.1		7.91		
t-1,3-Dichloropropene	10061-02-6	111	0.1	U	0.45		
cis-1,3-Dichloropropene	10061-01-5	111	0.1	U	0.45		
1,1,2-Trichloroethane	79-00-5	133.4	0.1	U	0.55		
2-Hexanone	591-78-6	100	0.11	J	0.45		
Dibromochloromethane	124-48-1	208.3	0.1	U	0.85		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.1	U	0.46		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	0.1	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.1	U	0.43		
m/p-Xylene	179601-23-1	106.2	0.34	J	1.48		
o-Xylene	95-47-6	106.2	0.16	J	0.69		
Styrene	100-42-5	104.1	0.1	U	0.43		
Bromoform	75-25-2	252.8	0.1	U	1.03		

Project : Albany Air**Sampling Date :** 06/13/14**Field Id Number :** DUPLICATE**Analysis Date :** 06/19/14**Laboratory Id Number :** F2781-03**Target Analyts :** Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
1,3-Dichlorobenzene	541-73-1	147	0.1	U	0.6		
1,4-Dichlorobenzene	106-46-7	147	0.1	U	0.6		
1,2-Dichlorobenzene	95-50-1	147	0.1	U	0.6		

A

B

C

D

E

F

G

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : DUPLICATEDL

Analysis Date : 06/19/14

Laboratory Id Number : F2781-03DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1	UD	4.94		
Chloromethane	74-87-3	50.49	1	UD	2.07		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	1	UD	3.88		
Chloroethane	75-00-3	64.52	1	UD	2.64		
Trichlorofluoromethane	75-69-4	137.4	1	UD	5.62		
1,1-Dichloroethene	75-35-4	96.94	1	UD	3.96		
Acetone	67-64-1	58.08	31.2	D	74.1		
Carbon Disulfide	75-15-0	76.14	1	UD	3.11		
Methylene Chloride	75-09-2	84.94	1	UD	3.47		
trans-1,2-Dichloroethene	156-60-5	96.94	1	UD	3.96		
1,1-Dichloroethane	75-34-3	98.96	1	UD	4.05		
2-Butanone	78-93-3	72.11	1	UD	2.95		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
Chloroform	67-66-3	119.4	1	UD	4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
Benzene	71-43-2	78.11	1	UD	3.19		
1,2-Dichloroethane	107-06-2	98.96	1	UD	4.05		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	1	UD	4.62		
Bromodichloromethane	75-27-4	163.8	1	UD	6.7		
4-Methyl-2-Pentanone	108-10-1	100.2	1	UD	4.1		
Toluene	108-88-3	92.14	1.1	JD	4.15		
t-1,3-Dichloropropene	10061-02-6	111	1	UD	4.54		
cis-1,3-Dichloropropene	10061-01-5	111	1	UD	4.54		
1,1,2-Trichloroethane	79-00-5	133.4	1	UD	5.46		
2-Hexanone	591-78-6	100	1	UD	4.09		
Dibromochloromethane	124-48-1	208.3	1	UD	8.52		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1	UD	4.61		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	1	UD	6.87		
Ethyl Benzene	100-41-4	106.2	1	UD	4.34		
m/p-Xylene	179601-23-1	106.2	2	UD	8.69		
o-Xylene	95-47-6	106.2	1	UD	4.34		
Styrene	100-42-5	104.1	1	UD	4.26		
Bromoform	75-25-2	252.8	1	UD	10.3		

Project : Albany Air**Sampling Date :** 06/13/14**Field Id Number :** DUPLICATEDL**Analysis Date :** 06/19/14**Laboratory Id Number :** F2781-03DL**Target Analyts :** Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.3	UD	2.06		
1,3-Dichlorobenzene	541-73-1	147	1	UD	6.01		
1,4-Dichlorobenzene	106-46-7	147	1	UD	6.01		
1,2-Dichlorobenzene	95-50-1	147	1	UD	6.01		

A

B

C

D

E

F

G

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : OA-1

Analysis Date : 06/18/14

Laboratory Id Number : F2781-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.31	J	1.53		
Chloromethane	74-87-3	50.49	0.63		1.3		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.1	U	0.39		
Chloroethane	75-00-3	64.52	0.1	U	0.26		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
1,1-Dichloroethene	75-35-4	96.94	0.1	U	0.4		
Acetone	67-64-1	58.08	170	E	403		
Carbon Disulfide	75-15-0	76.14	0.1	U	0.31		
Methylene Chloride	75-09-2	84.94	0.2	J	0.69		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.1	U	0.4		
2-Butanone	78-93-3	72.11	57.5	E	169		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
Benzene	71-43-2	78.11	0.36	J	1.15		
1,2-Dichloroethane	107-06-2	98.96	0.1	U	0.4		
Trichloroethene	79-01-6	131.4	0.15		0.81		
1,2-Dichloropropane	78-87-5	113	0.1	U	0.46		
Bromodichloromethane	75-27-4	163.8	0.1	U	0.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	2.7		10.2		
t-1,3-Dichloropropene	10061-02-6	111	0.1	U	0.45		
cis-1,3-Dichloropropene	10061-01-5	111	0.1	U	0.45		
1,1,2-Trichloroethane	79-00-5	133.4	0.1	U	0.55		
2-Hexanone	591-78-6	100	8.7		35.6		
Dibromochloromethane	124-48-1	208.3	0.1	U	0.85		
Tetrachloroethene	127-18-4	165.8	0.1		0.68		
Chlorobenzene	108-90-7	112.6	0.1	U	0.46		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	0.1	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.39	J	1.69		
m/p-Xylene	179601-23-1	106.2	1.5		6.52		
o-Xylene	95-47-6	106.2	0.48	J	2.08		
Styrene	100-42-5	104.1	0.1	U	0.43		
Bromoform	75-25-2	252.8	0.1	U	1.03		

Project : Albany Air**Sampling Date :** 06/13/14**Field Id Number :** OA-1**Analysis Date :** 06/18/14**Laboratory Id Number :** F2781-04**Target Analyts :** Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
1,3-Dichlorobenzene	541-73-1	147	0.1	U	0.6		
1,4-Dichlorobenzene	106-46-7	147	0.1	U	0.6		
1,2-Dichlorobenzene	95-50-1	147	0.1	U	0.6		

A

B

C

D

E

F

G

Project : Albany Air

Sampling Date : 06/13/14

Field Id Number : OA-1DL

Analysis Date : 06/19/14

Laboratory Id Number : F2781-04DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	4	UD	19.8		
Chloromethane	74-87-3	50.49	4	UD	8.26		
Vinyl Chloride	75-01-4	62.5	1.2	UD	3.07		
Bromomethane	74-83-9	94.94	4	UD	15.5		
Chloroethane	75-00-3	64.52	4	UD	10.6		
Trichlorofluoromethane	75-69-4	137.4	4	UD	22.5		
1,1-Dichloroethene	75-35-4	96.94	4	UD	15.9		
Acetone	67-64-1	58.08	200	D	475		
Carbon Disulfide	75-15-0	76.14	4	UD	12.5		
Methylene Chloride	75-09-2	84.94	4	UD	13.9		
trans-1,2-Dichloroethene	156-60-5	96.94	4	UD	15.9		
1,1-Dichloroethane	75-34-3	98.96	4	UD	16.2		
2-Butanone	78-93-3	72.11	36	D	106		
Carbon Tetrachloride	56-23-5	153.8	1.2	UD	7.55		
Chloroform	67-66-3	119.4	4	UD	19.5		
1,1,1-Trichloroethane	71-55-6	133.4	1.2	UD	6.55		
Benzene	71-43-2	78.11	4	UD	12.8		
1,2-Dichloroethane	107-06-2	98.96	4	UD	16.2		
Trichloroethene	79-01-6	131.4	1.2	UD	6.45		
1,2-Dichloropropane	78-87-5	113	4	UD	18.5		
Bromodichloromethane	75-27-4	163.8	4	UD	26.8		
4-Methyl-2-Pentanone	108-10-1	100.2	4	UD	16.4		
Toluene	108-88-3	92.14	4	UD	15.1		
t-1,3-Dichloropropene	10061-02-6	111	4	UD	18.2		
cis-1,3-Dichloropropene	10061-01-5	111	4	UD	18.2		
1,1,2-Trichloroethane	79-00-5	133.4	4	UD	21.8		
2-Hexanone	591-78-6	100	4	UD	16.4		
Dibromochloromethane	124-48-1	208.3	4	UD	34.1		
Tetrachloroethene	127-18-4	165.8	1.2	UD	8.14		
Chlorobenzene	108-90-7	112.6	4	UD	18.4		
1,1,1,2-Tetrachloroethane	630-20-6	167.85	4	UD	27.5		
Ethyl Benzene	100-41-4	106.2	4	UD	17.4		
m/p-Xylene	179601-23-1	106.2	8	UD	34.8		
o-Xylene	95-47-6	106.2	4	UD	17.4		
Styrene	100-42-5	104.1	4	UD	17.0		
Bromoform	75-25-2	252.8	4	UD	41.4		

Project : Albany Air**Sampling Date :** 06/13/14**Field Id Number :** OA-1DL**Analysis Date :** 06/19/14**Laboratory Id Number :** F2781-04DL**Target Analyts :** Air Results

1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.2	UD	8.24		
1,3-Dichlorobenzene	541-73-1	147	4	UD	24.0		
1,4-Dichlorobenzene	106-46-7	147	4	UD	24.0		
1,2-Dichlorobenzene	95-50-1	147	4	UD	24.0		

A

B

C

D

E

F

G

Current MDLs for Air

Method	Matrix	CAS #	Compound Name	Molecular Wt	ppbv MDL	LOD ppbv	LOQ ppbv	ug/m3 MDL	LOD ug/m3	LOQ ug/m3
TO-15	Air	71-55-6	1,1,1-Trichloroethane	133	0.04	0.04	0.5	0.22	0.22	2.72
TO-15	Air	79-34-5	1,1,2,2-Tetrachloroethane	168	0.10	0.1	0.5	0.69	0.69	3.44
TO-15	Air	79-00-5	1,1,2-Trichloroethane	133	0.08	0.1	0.5	0.44	0.54	2.72
TO-15	Air	76-13-1	1,1,2-Trichlorotrifluoroethane	187	0.04	0.1	0.5	0.32	0.76	3.82
TO-15	Air	75-34-3	1,1-Dichloroethane	99	0.04	0.1	0.5	0.16	0.40	2.02
TO-15	Air	75-35-4	1,1-Dichloroethene	97	0.05	0.1	0.5	0.20	0.40	1.98
TO-15	Air	120-82-1	1,2,4-Trichlorobenzene	181	0.04	0.1	0.5	0.29	0.74	3.70
TO-15	Air	95-63-6	1,2,4-Trimethylbenzene	120	0.10	0.1	0.5	0.50	0.49	2.45
TO-15	Air	106-93-4	1,2-Dibromoethane	188	0.07	0.1	0.5	0.55	0.77	3.84
TO-15	Air	95-50-1	1,2-Dichlorobenzene	147	0.07	0.1	0.5	0.41	0.60	3.01
TO-15	Air	107-06-2	1,2-Dichloroethane	99	0.07	0.1	0.5	0.28	0.40	2.02
TO-15	Air	78-87-5	1,2-Dichloropropane	113	0.06	0.1	0.5	0.30	0.46	2.31
TO-15	Air	108-67-8	1,3,5-Trimethylbenzene	120	0.09	0.1	0.5	0.44	0.49	2.45
TO-15	Air	106-99-0	1,3-Butadiene	54	0.09	0.1	0.5	0.20	0.22	1.10
TO-15	Air	541-73-1	1,3-Dichlorobenzene	147	0.08	0.1	0.5	0.46	0.60	3.01
TO-15	Air	106-46-7	1,4-Dichlorobenzene	147	0.06	0.1	0.5	0.35	0.60	3.01
TO-15	Air	123-91-1	1,4-Dioxane	88	0.09	0.1	0.5	0.32	0.36	1.80
TO-15	Air	540-84-1	2,2,4-Trimethylpentane	114	0.04	0.1	0.5	0.21	0.47	2.33
TO-15	Air	78-93-3	2-Butanone	72	0.10	0.1	0.5	0.29	0.29	1.47
TO-15	Air	95-49-8	2-Chlorotoluene	126.6	0.10	0.1	0.5	0.52	0.52	2.59
TO-15	Air	591-78-6	2-Hexanone	100	0.08	0.1	0.5	0.33	0.41	2.04
TO-15	Air	622-96-8	4-Ethyltoluene	120	0.08	0.1	0.5	0.38	0.49	2.45
TO-15	Air	108-10-1	4-Methyl-2-Pentanone	100	0.06	0.1	0.5	0.24	0.41	2.04
TO-15	Air	67-64-1	Acetone	58	0.10	0.1	0.5	0.24	0.24	1.19
TO-15	Air	107-05-1	Allyl Chloride	77	0.05	0.1	0.5	0.16	0.31	1.57
TO-15	Air	71-43-2	Benzene	78	0.04	0.1	0.5	0.12	0.32	1.60
TO-15	Air	100-44-7	Benzyl Chloride	141	0.06	0.1	0.5	0.37	0.58	2.88
TO-15	Air	75-27-4	Bromodichloromethane	164	0.05	0.1	0.5	0.33	0.67	3.35
TO-15	Air	593-60-2	Bromoethene	107	0.03	0.1	0.5	0.14	0.44	2.19
TO-15	Air	75-25-2	Bromoform	253	0.05	0.1	0.5	0.49	1.03	5.17
TO-15	Air	74-83-9	Bromomethane	95	0.03	0.1	0.5	0.12	0.39	1.94
TO-15	Air	75-15-0	Carbon Disulfide	76	0.05	0.1	0.5	0.14	0.31	1.55
TO-15	Air	56-23-5	Carbon Tetrachloride	154	0.04	0.04	0.5	0.25	0.25	3.15
TO-15	Air	108-90-7	Chlorobenzene	113	0.09	0.1	0.5	0.40	0.46	2.31
TO-15	Air	75-00-3	Chloroethane	65	0.07	0.1	0.5	0.18	0.27	1.33
TO-15	Air	67-66-3	Chloroform	119	0.02	0.1	0.5	0.08	0.49	2.43
TO-15	Air	74-87-3	Chloromethane	50	0.06	0.1	0.5	0.12	0.20	1.02
TO-15	Air	156-59-2	cis-1,2-Dichloroethene	97	0.06	0.1	0.5	0.22	0.40	1.98
TO-15	Air	10061-01-5	cis-1,3-Dichloropropene	111	0.06	0.1	0.5	0.29	0.45	2.27
TO-15	Air	110-82-7	Cyclohexane	82	0.08	0.1	0.5	0.28	0.34	1.68
TO-15	Air	124-48-1	Dibromochloromethane	208	0.05	0.1	0.5	0.43	0.85	4.25
TO-15	Air	75-71-8	Dichlorodifluoromethane	121	0.04	0.1	0.5	0.18	0.49	2.47
TO-15	Air	76-14-2	Dichlorotetrafluoroethane	171	0.04	0.1	0.5	0.27	0.70	3.50
TO-15	Air	64-17-5	Ethanol	46.1	0.10	0.1	0.5	0.19	0.19	0.94
TO-15	Air	141-78-6	Ethyl Acetate	88	0.06	0.1	0.5	0.23	0.36	1.80
TO-15	Air	100-41-4	Ethyl Benzene	106	0.08	0.1	0.5	0.35	0.43	2.17
TO-15	Air	142-82-5	Heptane	100	0.06	0.1	0.5	0.25	0.41	2.04
TO-15	Air	87-68-3	Hexachloro-1,3-Butadiene	261	0.08	0.1	0.5	0.82	1.07	5.34

Current MDLs for Air

TO-15	Air	110-54-3	Hexane	86	0.04	0.1	0.5	0.15	0.35	1.76
TO-15	Air	67-63-0	Isopropyl Alcohol	60	0.10	0.1	0.5	0.25	0.25	1.23
TO-15	Air	136777-61-2	m/p-Xylene	106	0.10	0.2	1	0.43	0.87	4.34
TO-15	Air	80-62-6	Methyl methacrylate	100.1	0.10	0.1	0.5	0.41	0.41	2.05
TO-15	Air	1634-04-4	Methyl tert-Butyl Ether	88	0.05	0.1	0.5	0.19	0.36	1.80
TO-15	Air	75-09-2	Methylene Chloride	85	0.05	0.1	0.5	0.16	0.35	1.74
TO-15	Air	95-47-6	o-Xylene	106	0.07	0.1	0.5	0.29	0.43	2.17
TO-15	Air	115-07-1	Propene	42	0.10	0.1	0.5	0.18	0.18	0.86
TO-15	Air	100-42-5	Styrene	104	0.07	0.1	0.5	0.29	0.43	2.13
TO-15	Air	10061-02-6	t-1,3-Dichloropropene	111	0.07	0.1	0.5	0.30	0.45	2.27
TO-15	Air	27975-78-6	tert-butyl alcohol	74.1	0.10	0.1	0.5	0.30	0.30	1.52
TO-15	Air	127-18-4	Tetrachloroethene	166	0.03	0.03	0.5	0.20	0.20	3.39
TO-15	Air	109-99-9	Tetrahydrofuran	72	0.08	0.1	0.5	0.23	0.29	1.47
TO-15	Air	108-88-3	Toluene	92	0.05	0.1	0.5	0.20	0.38	1.88
TO-15	Air	156-60-5	trans-1,2-Dichloroethene	97	0.06	0.1	0.5	0.24	0.40	1.98
TO-15	Air	79-01-6	Trichloroethene	131	0.04	0.04	0.5	0.21	0.21	2.68
TO-15	Air	75-69-4	Trichlorofluoromethane	137	0.04	0.1	0.5	0.22	0.56	2.80
TO-15	Air	108-05-4	Vinyl Acetate	86	0.10	0.1	0.5	0.35	0.35	1.76
TO-15	Air	75-01-4	Vinyl Chloride	62.5	0.07	0.07	0.5	0.17	0.17	1.28

TO-15	Air	91-20-3	Naphthalene	128	0.04	0.25	0.50	0.21	1.31	2.62
TO-15	Air	98-82-8	Isopropylbenzene	120			0.5			2.46
TO-15	Air	103-65-1	n-propylbenzene	120			0.5			2.46
TO-15	Air	98-06-6	tert-butyl benzene	134			0.5			2.74
TO-15	Air	135-98-8	sec-butylbenzene	134			0.5			2.74
TO-15	Air	99-87-6	p-isopropyltoluene	134			0.5			2.74
TO-15	Air	104-51-8	n-butylbenzene	134			0.5			2.74
			Acetonitrile							
			Acrolein							
			Acrylonitrile							
			1,1,1,2-Tetrachloroethane							
			Tert-butanol							

SAMPLE DATA

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	IA-RM104	SDG No.:	F2781
Lab Sample ID:	F2781-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023231.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.35	1.73	JQ	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	1.1	2.27		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.89	5		0.04	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	29.8	70.8	EB	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.51	1.77	B	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
78-93-3	2-Butanone	1.2	3.54		0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.06	0.38		0.03	0.03	0.03	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
71-43-2	Benzene	0.21	0.67	J	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16		0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	1.6	6.03		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
591-78-6	2-Hexanone	0.12	0.49	J	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
127-18-4	Tetrachloroethene	0.04	0.27		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	0.1	0.69	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	1.2	5.21		0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.53	2.3		0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.11	0.47	J	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	IA-RM104	SDG No.:	F2781
Lab Sample ID:	F2781-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023231.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.6			65 - 135		96%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1115150		6.65				
540-36-3	1,4-Difluorobenzene	2761880		8.32				
3114-55-4	Chlorobenzene-d5	2214350		13.75				
TENTITIVE IDENTIFIED COMPOUNDS								
96-12-8	1,2-Dibromo-3-chloropropane	1		U			0	ppbv
74-95-3	Dibromomethane	1		U			0	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	IA-RM104DL	SDG No.:	F2781
Lab Sample ID:	F2781-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023232.D	10		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	UDQ	0.4	1	5	ppbv
74-87-3	Chloromethane	1	2.07	UD	1	1	5	ppbv
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.3	0.3	0.3	ppbv
74-83-9	Bromomethane	1	3.88	UD	0.3	1	5	ppbv
75-00-3	Chloroethane	1	2.64	UD	1	1	5	ppbv
75-69-4	Trichlorofluoromethane	1	5.62	UD	0.4	1	5	ppbv
75-35-4	1,1-Dichloroethene	1	3.96	UD	0.5	1	5	ppbv
67-64-1	Acetone	29.4	69.8	DB	1	1	5	ppbv
75-15-0	Carbon Disulfide	1	3.11	UD	0.5	1	5	ppbv
75-09-2	Methylene Chloride	1	3.47	UD	0.5	1	5	ppbv
156-60-5	trans-1,2-Dichloroethene	1	3.96	UD	0.5	1	5	ppbv
75-34-3	1,1-Dichloroethane	1	4.05	UD	0.4	1	5	ppbv
78-93-3	2-Butanone	1	2.95	UD	1	1	5	ppbv
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.3	0.3	0.3	ppbv
67-66-3	Chloroform	1	4.88	UD	0.2	1	5	ppbv
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.3	0.3	0.3	ppbv
71-43-2	Benzene	1	3.19	UD	0.4	1	5	ppbv
107-06-2	1,2-Dichloroethane	1	4.05	UD	1	1	5	ppbv
79-01-6	Trichloroethene	0.3	1.61	UD	0.15	0.3	0.3	ppbv
78-87-5	1,2-Dichloropropane	1	4.62	UD	1	1	5	ppbv
75-27-4	Bromodichloromethane	1	6.7	UD	0.5	1	5	ppbv
108-10-1	4-Methyl-2-Pentanone	1	4.1	UD	0.5	1	5	ppbv
108-88-3	Toluene	0.8	3.01	JD	0.5	1	5	ppbv
10061-02-6	t-1,3-Dichloropropene	1	4.54	UD	1	1	5	ppbv
10061-01-5	cis-1,3-Dichloropropene	1	4.54	UD	1	1	5	ppbv
79-00-5	1,1,2-Trichloroethane	1	5.46	UD	1	1	5	ppbv
591-78-6	2-Hexanone	1	4.09	UD	1	1	5	ppbv
124-48-1	Dibromochloromethane	1	8.52	UD	0.5	1	5	ppbv
127-18-4	Tetrachloroethene	0.3	2.03	UD	0.3	0.3	0.3	ppbv
108-90-7	Chlorobenzene	1	4.61	UD	1	1	5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	1	6.87	UD	1	1	5	ppbv
100-41-4	Ethyl Benzene	1	4.34	UD	1	1	5	ppbv
179601-23-1	m/p-Xylene	2	8.69	UD	1	2	10	ppbv
95-47-6	o-Xylene	1	4.34	UD	1	1	5	ppbv
100-42-5	Styrene	1	4.26	UD	1	1	5	ppbv
75-25-2	Bromoform	1	10.3	UD	0.5	1	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	UD	0.3	0.3	0.3	ppbv
541-73-1	1,3-Dichlorobenzene	1	6.01	UD	1	1	5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	IA-RM104DL	SDG No.:	F2781
Lab Sample ID:	F2781-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023232.D	10		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	1	6.01	UD	1	1	5	ppbv
95-50-1	1,2-Dichlorobenzene	1	6.01	UD	1	1	5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.7			65 - 135		97%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1142400		6.65				
540-36-3	1,4-Difluorobenzene	2845540		8.33				
3114-55-4	Chlorobenzene-d5	2233520		13.75				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	IA-RM105	SDG No.:	F2781
Lab Sample ID:	F2781-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023229.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.61	3.02	Q	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	0.61	1.26		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.47	2.64	J	0.04	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	10.9	25.9	B	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.38	1.32	JB	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
78-93-3	2-Butanone	1.1	3.24		0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.06	0.38		0.03	0.03	0.03	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
71-43-2	Benzene	0.19	0.61	J	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	1.5	5.65		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
591-78-6	2-Hexanone	0.1	0.41	U	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
127-18-4	Tetrachloroethene	0.05	0.34		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	0.1	0.69	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	0.39	1.69	J	0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.15	0.65	J	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	IA-RM105	SDG No.:	F2781
Lab Sample ID:	F2781-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023229.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	8.4			65 - 135		84%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1269980		6.65				
540-36-3	1,4-Difluorobenzene	3238990		8.32				
3114-55-4	Chlorobenzene-d5	2522060		13.75				
TENTITIVE IDENTIFIED COMPOUNDS								
96-12-8	1,2-Dibromo-3-chloropropane	1		U			0	ppbv
74-95-3	Dibromomethane	1		U			0	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	DUPLICATE	SDG No.:	F2781
Lab Sample ID:	F2781-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023234.D	1		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.57	2.82	Q	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	1	2.07		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.88	4.95		0.04	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	30.8	73.2	EB	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.48	1.67	JB	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
78-93-3	2-Butanone	1	2.95		0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.06	0.38		0.03	0.03	0.03	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
71-43-2	Benzene	0.17	0.54	J	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.09	0.37	J	0.05	0.1	0.5	ppbv
108-88-3	Toluene	2.1	7.91		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
591-78-6	2-Hexanone	0.11	0.45	J	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
127-18-4	Tetrachloroethene	0.03	0.2	U	0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	0.1	0.69	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	0.34	1.48	J	0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.16	0.69	J	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	DUPLICATE	SDG No.:	F2781
Lab Sample ID:	F2781-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023234.D	1		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.7			65 - 135		97%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1097460		6.66				
540-36-3	1,4-Difluorobenzene	2531790		8.34				
3114-55-4	Chlorobenzene-d5	1933810		13.76				
TENTITIVE IDENTIFIED COMPOUNDS								
96-12-8	1,2-Dibromo-3-chloropropane	1		U			0	ppbv
74-95-3	Dibromomethane	1		U			0	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	DUPLICATEDL	SDG No.:	F2781
Lab Sample ID:	F2781-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023235.D	10		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	UDQ	0.4	1	5	ppbv
74-87-3	Chloromethane	1	2.07	UD	1	1	5	ppbv
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.3	0.3	0.3	ppbv
74-83-9	Bromomethane	1	3.88	UD	0.3	1	5	ppbv
75-00-3	Chloroethane	1	2.64	UD	1	1	5	ppbv
75-69-4	Trichlorofluoromethane	1	5.62	UD	0.4	1	5	ppbv
75-35-4	1,1-Dichloroethene	1	3.96	UD	0.5	1	5	ppbv
67-64-1	Acetone	31.2	74.1	DB	1	1	5	ppbv
75-15-0	Carbon Disulfide	1	3.11	UD	0.5	1	5	ppbv
75-09-2	Methylene Chloride	1	3.47	UD	0.5	1	5	ppbv
156-60-5	trans-1,2-Dichloroethene	1	3.96	UD	0.5	1	5	ppbv
75-34-3	1,1-Dichloroethane	1	4.05	UD	0.4	1	5	ppbv
78-93-3	2-Butanone	1	2.95	UD	1	1	5	ppbv
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.3	0.3	0.3	ppbv
67-66-3	Chloroform	1	4.88	UD	0.2	1	5	ppbv
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.3	0.3	0.3	ppbv
71-43-2	Benzene	1	3.19	UD	0.4	1	5	ppbv
107-06-2	1,2-Dichloroethane	1	4.05	UD	1	1	5	ppbv
79-01-6	Trichloroethene	0.3	1.61	UD	0.15	0.3	0.3	ppbv
78-87-5	1,2-Dichloropropane	1	4.62	UD	1	1	5	ppbv
75-27-4	Bromodichloromethane	1	6.7	UD	0.5	1	5	ppbv
108-10-1	4-Methyl-2-Pentanone	1	4.1	UD	0.5	1	5	ppbv
108-88-3	Toluene	1.1	4.15	JD	0.5	1	5	ppbv
10061-02-6	t-1,3-Dichloropropene	1	4.54	UD	1	1	5	ppbv
10061-01-5	cis-1,3-Dichloropropene	1	4.54	UD	1	1	5	ppbv
79-00-5	1,1,2-Trichloroethane	1	5.46	UD	1	1	5	ppbv
591-78-6	2-Hexanone	1	4.09	UD	1	1	5	ppbv
124-48-1	Dibromochloromethane	1	8.52	UD	0.5	1	5	ppbv
127-18-4	Tetrachloroethene	0.3	2.03	UD	0.3	0.3	0.3	ppbv
108-90-7	Chlorobenzene	1	4.61	UD	1	1	5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	1	6.87	UD	1	1	5	ppbv
100-41-4	Ethyl Benzene	1	4.34	UD	1	1	5	ppbv
179601-23-1	m/p-Xylene	2	8.69	UD	1	2	10	ppbv
95-47-6	o-Xylene	1	4.34	UD	1	1	5	ppbv
100-42-5	Styrene	1	4.26	UD	1	1	5	ppbv
75-25-2	Bromoform	1	10.3	UD	0.5	1	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	UD	0.3	0.3	0.3	ppbv
541-73-1	1,3-Dichlorobenzene	1	6.01	UD	1	1	5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	DUPLICATEDL	SDG No.:	F2781
Lab Sample ID:	F2781-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023235.D	10		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	1	6.01	UD	1	1	5	ppbv
95-50-1	1,2-Dichlorobenzene	1	6.01	UD	1	1	5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.8			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1121180		6.65				
540-36-3	1,4-Difluorobenzene	2612050		8.33				
3114-55-4	Chlorobenzene-d5	2028030		13.76				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	OA-1	SDG No.:	F2781
Lab Sample ID:	F2781-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023226.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.31	1.53	JQ	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	0.63	1.3		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.04	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	170	403	EB	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.2	0.69	JB	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
78-93-3	2-Butanone	57.5	169	E	0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.06	0.38		0.03	0.03	0.03	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
71-43-2	Benzene	0.36	1.15	J	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.15	0.81		0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	2.7	10.2		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
591-78-6	2-Hexanone	8.7	35.6		0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
127-18-4	Tetrachloroethene	0.1	0.68		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	0.1	0.69	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.39	1.69	J	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	1.5	6.52		0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.48	2.08	J	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	OA-1	SDG No.:	F2781
Lab Sample ID:	F2781-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023226.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.1			65 - 135		91%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1114670		6.67				
540-36-3	1,4-Difluorobenzene	2470600		8.34				
3114-55-4	Chlorobenzene-d5	1892310		13.76				
TENTITIVE IDENTIFIED COMPOUNDS								
96-12-8	1,2-Dibromo-3-chloropropane	1		U			0	ppbv
74-95-3	Dibromomethane	1		U			0	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	OA-1DL	SDG No.:	F2781
Lab Sample ID:	F2781-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023238.D	40		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	4	19.8	UDQ	1.6	4	20	ppbv
74-87-3	Chloromethane	4	8.26	UD	4	4	20	ppbv
75-01-4	Vinyl Chloride	1.2	3.07	UD	1.2	1.2	1.2	ppbv
74-83-9	Bromomethane	4	15.5	UD	1.2	4	20	ppbv
75-00-3	Chloroethane	4	10.6	UD	4	4	20	ppbv
75-69-4	Trichlorofluoromethane	4	22.5	UD	1.6	4	20	ppbv
75-35-4	1,1-Dichloroethene	4	15.9	UD	2	4	20	ppbv
67-64-1	Acetone	200	475	DB	4	4	20	ppbv
75-15-0	Carbon Disulfide	4	12.5	UD	2	4	20	ppbv
75-09-2	Methylene Chloride	4	13.9	UD	2	4	20	ppbv
156-60-5	trans-1,2-Dichloroethene	4	15.9	UD	2	4	20	ppbv
75-34-3	1,1-Dichloroethane	4	16.2	UD	1.6	4	20	ppbv
78-93-3	2-Butanone	36	106	D	4	4	20	ppbv
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	1.2	1.2	1.2	ppbv
67-66-3	Chloroform	4	19.5	UD	0.8	4	20	ppbv
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	1.2	1.2	1.2	ppbv
71-43-2	Benzene	4	12.8	UD	1.6	4	20	ppbv
107-06-2	1,2-Dichloroethane	4	16.2	UD	4	4	20	ppbv
79-01-6	Trichloroethene	1.2	6.45	UD	0.6	1.2	1.2	ppbv
78-87-5	1,2-Dichloropropane	4	18.5	UD	4	4	20	ppbv
75-27-4	Bromodichloromethane	4	26.8	UD	2	4	20	ppbv
108-10-1	4-Methyl-2-Pentanone	4	16.4	UD	2	4	20	ppbv
108-88-3	Toluene	4	15.1	UD	2	4	20	ppbv
10061-02-6	t-1,3-Dichloropropene	4	18.2	UD	4	4	20	ppbv
10061-01-5	cis-1,3-Dichloropropene	4	18.2	UD	4	4	20	ppbv
79-00-5	1,1,2-Trichloroethane	4	21.8	UD	4	4	20	ppbv
591-78-6	2-Hexanone	4	16.4	UD	4	4	20	ppbv
124-48-1	Dibromochloromethane	4	34.1	UD	2	4	20	ppbv
127-18-4	Tetrachloroethene	1.2	8.14	UD	1.2	1.2	1.2	ppbv
108-90-7	Chlorobenzene	4	18.4	UD	4	4	20	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	4	27.5	UD	4	4	20	ppbv
100-41-4	Ethyl Benzene	4	17.4	UD	4	4	20	ppbv
179601-23-1	m/p-Xylene	8	34.8	UD	4	8	40	ppbv
95-47-6	o-Xylene	4	17.4	UD	4	4	20	ppbv
100-42-5	Styrene	4	17.0	UD	4	4	20	ppbv
75-25-2	Bromoform	4	41.4	UD	2	4	20	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	1.2	8.24	UD	1.2	1.2	1.2	ppbv
541-73-1	1,3-Dichlorobenzene	4	24.0	UD	4	4	20	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	06/13/14
Project:	Albany Air	Date Received:	06/18/14
Client Sample ID:	OA-1DL	SDG No.:	F2781
Lab Sample ID:	F2781-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023238.D	40		06/19/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	4	24.0	UD	4	4	20	ppbv
95-50-1	1,2-Dichlorobenzene	4	24.0	UD	4	4	20	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	8.6			65 - 135		86%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1068730		6.65				
540-36-3	1,4-Difluorobenzene	2301270		8.33				
3114-55-4	Chlorobenzene-d5	1445780		13.76				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

QC SUMMARY

Surrogate Summary

SDG No.: F2781

Client: CB&I Federal Services LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
F2781-01	IA-RM104	1-Bromo-4-Fluorobenzene	10	9.63	96		65	135
F2781-01DL	IA-RM104DL	1-Bromo-4-Fluorobenzene	10	9.66	97		65	135
F2781-02	IA-RM105	1-Bromo-4-Fluorobenzene	10	8.35	84		65	135
F2781-03	DUPLICATE	1-Bromo-4-Fluorobenzene	10	9.69	97		65	135
F2781-03DL	DUPLICATEDL	1-Bromo-4-Fluorobenzene	10	9.81	98		65	135
F2781-04	OA-1	1-Bromo-4-Fluorobenzene	10	9.13	91		65	135
F2781-04DL	OA-1DL	1-Bromo-4-Fluorobenzene	10	8.63	86		65	135
F2781-04DUP	OA-1DUP	1-Bromo-4-Fluorobenzene	10	8.9	89		65	135
VL0618ABL	VL0618ABL	1-Bromo-4-Fluorobenzene	10	10.04	100		65	135
VL0618ABS	VL0618ABS	1-Bromo-4-Fluorobenzene	10	9.573	96		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: F2781

Client: CB&I Federal Services LLC

Analytical Method: SWTO-15

Datafile : VL023225.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits		RPD
								Low	High	
VL0618ABS	Dichlorodifluoromethane	10	5.5	ppbv	55		*	70	130	
	Chloromethane	10	9	ppbv	90			70	130	
	Vinyl Chloride	10	8.3	ppbv	83			70	130	
	Bromomethane	10	9.2	ppbv	92			70	130	
	Chloroethane	10	9.2	ppbv	92			70	130	
	Trichlorofluoromethane	10	9	ppbv	90			70	130	
	1,1-Dichloroethene	10	9.6	ppbv	96			70	130	
	Acetone	10	8.4	ppbv	84			70	130	
	Carbon disulfide	10	9.1	ppbv	91			70	130	
	Methylene Chloride	10	8.3	ppbv	83			70	130	
	trans-1,2-Dichloroethene	10	10.1	ppbv	101			70	130	
	1,1-Dichloroethane	10	9.3	ppbv	93			70	130	
	2-Butanone	10	10.3	ppbv	103			70	130	
	Carbon Tetrachloride	10	8.1	ppbv	81			70	130	
	Chloroform	10	9.2	ppbv	92			70	130	
	1,1,1-Trichloroethane	10	8.3	ppbv	83			70	130	
	Benzene	10	10.4	ppbv	104			70	130	
	1,2-Dichloroethane	10	9.2	ppbv	92			70	130	
	Trichloroethene	10	9.7	ppbv	97			70	130	
	1,2-Dichloropropane	10	9.9	ppbv	99			70	130	
	Bromodichloromethane	10	9.6	ppbv	96			70	130	
	4-Methyl-2-Pentanone	10	10.5	ppbv	105			70	130	
	Toluene	10	11.1	ppbv	111			70	130	
	t-1,3-Dichloropropene	10	11.8	ppbv	118			70	130	
	cis-1,3-Dichloropropene	10	11.5	ppbv	115			70	130	
	1,1,2-Trichloroethane	10	9.4	ppbv	94			70	130	
	2-Hexanone	10	11.4	ppbv	114			70	130	
	Dibromochloromethane	10	9.9	ppbv	99			70	130	
	Tetrachloroethene	10	9.9	ppbv	99			70	130	
	Chlorobenzene	10	8.8	ppbv	88			70	130	
	1,1,1,2-Tetrachloroethane	10	8.9	ppbv	89			70	130	
	Ethyl Benzene	10	10.6	ppbv	106			70	130	
	m/p-Xylene	20	19.2	ppbv	96			70	130	
	o-Xylene	10	9.8	ppbv	98			70	130	
	Styrene	10	11.3	ppbv	113			70	130	
	Bromoform	10	10.2	ppbv	102			70	130	
	1,1,2,2-Tetrachloroethane	10	8.5	ppbv	85			70	130	
	1,3-Dichlorobenzene	10	8.8	ppbv	88			70	130	
	1,4-Dichlorobenzene	10	9	ppbv	90			70	130	
	1,2-Dichlorobenzene	10	8.9	ppbv	89			70	130	

Duplicate Sample Summary

Lab Sample Id :	F2781-04DUP	F2781-04
Client Id :	OA-1DUP	OA-1
DF :	1	1
Datafile :	VL023227.D	VL023226.D
Anal Date & Time :	06/18/2014 20:36	06/18/2014 19:46

Parameter	Result	Result	RPD
1,1,1,2-Tetrachloroethane	0	0	0
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
2-Butanone	55.8	57.5	3
2-Hexanone	9.5	8.7	8.8
4-Methyl-2-Pentanone	0	0	0
Acetone	160	170	6.1
Benzene	0.39	0.36	8
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.06	0.06	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.71	0.63	11.9
cis-1,3-Dichloropropene	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.62	0.31	66.7 *
Ethyl Benzene	0.41	0.39	5
m/p-Xylene	1.6	1.5	6.5

Duplicate Sample Summary

Lab Sample Id :	F2781-04DUP	F2781-04
Client Id :	OA-1DUP	OA-1
DF :	1	1
Datafile :	VL023227.D	VL023226.D
Anal Date & Time :	06/18/2014 20:36	06/18/2014 19:46

Parameter	Result	Result	RPD
Methylene Chloride	0.21	0.2	4.9
o-Xylene	0.48	0.48	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
Tetrachloroethene	0.09	0.1	10.5
Toluene	3	2.7	10.5
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0.17	0.15	12.5
Trichlorofluoromethane	0.26	0.24	8
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0618ABL

Lab Name: CHEMTECH

Contract: SHAW23

Lab Code: CHEM Case No.: F2781

SAS No.: F2781 SDG NO.: F2781

Lab File ID: VL023224.D

Lab Sample ID: VL0618ABL

Date Analyzed: 06/18/2014

Time Analyzed: 16:51

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0618ABS	VL0618ABS	VL023225.D	06/18/2014
OA-1	F2781-04	VL023226.D	06/18/2014
OA-1DUP	F2781-04DUP	VL023227.D	06/18/2014
IA-RM105	F2781-02	VL023229.D	06/18/2014
IA-RM104	F2781-01	VL023231.D	06/18/2014
IA-RM104DL	F2781-01DL	VL023232.D	06/19/2014
DUPLICATE	F2781-03	VL023234.D	06/19/2014
DUPLICATEDL	F2781-03DL	VL023235.D	06/19/2014
OA-1DL	F2781-04DL	VL023238.D	06/19/2014

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: SHAW23
Lab Code: CHEM Case No.: F2781 SAS No.: F2781 SDG NO.: F2781
Lab File ID: VL023192.D BFB Injection Date: 06/17/2014
Instrument ID: MSVOA_L BFB Injection Time: 01:05
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	28.9
75	30.0 - 66.0% of mass 95	61.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.7 (7.5) 1
176	93.0 - 101.0% of mass 174	60.5 (95.5) 1
177	5.0 - 9.0% of mass 176	4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL023193.D	06/17/2014	01:59
VSTDICCC002	VSTDICCC002	VL023194.D	06/17/2014	02:41
VSTDICCC0.1	VSTDICCC0.1	VL023195.D	06/17/2014	03:20
VSTDICCC0.03	VSTDICCC0.03	VL023196.D	06/17/2014	04:00
VSTDICCC001	VSTDICCC001	VL023197.D	06/17/2014	04:39
VSTDICCC0.5	VSTDICCC0.5	VL023198.D	06/17/2014	05:19
VSTDICCC015	VSTDICCC015	VL023199.D	06/17/2014	06:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: SHAW23
Lab Code: CHEM Case No.: F2781 SAS No.: F2781 SDG NO.: F2781
Lab File ID: VL023222.D BFB Injection Date: 06/18/2014
Instrument ID: MSVOA_L BFB Injection Time: 11:51
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.9
75	30.0 - 66.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	64.8
175	4.0 - 9.0% of mass 174	4.9 (7.6) 1
176	93.0 - 101.0% of mass 174	63.1 (97.5) 1
177	5.0 - 9.0% of mass 176	4.1 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL023223.D	06/18/2014	15:12
VL0618ABL	VL0618ABL	VL023224.D	06/18/2014	16:51
VL0618ABS	VL0618ABS	VL023225.D	06/18/2014	17:33
OA-1	F2781-04	VL023226.D	06/18/2014	19:46
OA-1DUP	F2781-04DUP	VL023227.D	06/18/2014	20:36
IA-RM105	F2781-02	VL023229.D	06/18/2014	22:16
IA-RM104	F2781-01	VL023231.D	06/18/2014	23:57
IA-RM104DL	F2781-01DL	VL023232.D	06/19/2014	00:46
DUPLICATE	F2781-03	VL023234.D	06/19/2014	02:19
DUPLICATEDL	F2781-03DL	VL023235.D	06/19/2014	03:05
OA-1DL	F2781-04DL	VL023238.D	06/19/2014	05:20

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: SHAW23
 Lab Code: CHEM Case No.: F2781 SAS No.: F2781 SDG NO.: F2781
 Lab File ID: VL023223.D Date Analyzed: 06/18/2014
 Instrument ID: MSVOA_L Time Analyzed: 15:12
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1343990	6.67	3278150	8.34	2969560	13.77
UPPER LIMIT	1881580	7.00	4589410	8.67	4157380	14.10
LOWER LIMIT	806392	6.34	1966890	8.01	1781730	13.44
EPA SAMPLE NO.						
IA-RM104	1115150	6.65	2761880	8.32	2214350	13.75
IA-RM104DL	1142400	6.65	2845540	8.33	2233520	13.75
IA-RM105	1269980	6.65	3238990	8.32	2522060	13.75
DUPLICATE	1097460	6.66	2531790	8.34	1933810	13.76
DUPLICATEDL	1121180	6.65	2612050	8.33	2028030	13.76
OA-1	1114670	6.67	2470600	8.34	1892310	13.76
OA-1DL	1068730	6.65	2301270	8.33	1445780 *	13.76
OA-1DUP	1155230	6.67	2826810	8.34	2462120	13.76
VL0618ABL	1193440	6.66	2825400	8.33	2276570	13.76
VL0618ABS	1253510	6.67	2881870	8.34	2539270	13.77

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	
Project:	Albany Air	Date Received:	
Client Sample ID:	VL0618ABL	SDG No.:	F2781
Lab Sample ID:	VL0618ABL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023224.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.1	0.49	U	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	0.1	0.21	U	0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.04	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	0.17	0.4	J	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.1	0.35	J	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
78-93-3	2-Butanone	0.1	0.29	U	0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.03	0.03	0.03	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
71-43-2	Benzene	0.1	0.32	U	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	0.1	0.38	U	0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
591-78-6	2-Hexanone	0.1	0.41	U	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
127-18-4	Tetrachloroethene	0.03	0.2	U	0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	0.1	0.69	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	0.2	0.87	U	0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.1	0.43	U	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	
Project:	Albany Air	Date Received:	
Client Sample ID:	VL0618ABL	SDG No.:	F2781
Lab Sample ID:	VL0618ABL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023224.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1193440		6.66				
540-36-3	1,4-Difluorobenzene	2825400		8.33				
3114-55-4	Chlorobenzene-d5	2276570		13.76				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	
Project:	Albany Air	Date Received:	
Client Sample ID:	VL0618ABS	SDG No.:	F2781
Lab Sample ID:	VL0618ABS	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023225.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5.5	27.2		0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	9	18.6		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	8.3	21.2		0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	9.2	35.7		0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	9.2	24.3		0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	9	50.6		0.04	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	9.6	38.1		0.05	0.1	0.5	ppbv
67-64-1	Acetone	8.4	20.0		0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	9.1	28.3		0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	8.3	28.8		0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	10.1	40.0		0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	9.3	37.6		0.04	0.1	0.5	ppbv
78-93-3	2-Butanone	10.3	30.4		0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	8.1	51.0		0.03	0.03	0.03	ppbv
67-66-3	Chloroform	9.2	44.9		0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	8.3	45.3		0.03	0.03	0.03	ppbv
71-43-2	Benzene	10.4	33.2		0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	9.2	37.2		0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	9.7	52.1		0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	9.9	45.8		0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	9.6	64.3		0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	10.5	43.0		0.05	0.1	0.5	ppbv
108-88-3	Toluene	11.1	41.8		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	11.8	53.6		0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	11.5	52.2		0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	9.4	51.3		0.1	0.1	0.5	ppbv
591-78-6	2-Hexanone	11.4	46.6		0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	9.9	84.3		0.05	0.1	0.5	ppbv
127-18-4	Tetrachloroethene	9.9	67.1		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	8.8	40.5		0.1	0.1	0.5	ppbv
630-20-6	1,1,1,2-Tetrachloroethane	8.9	61.1		0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	10.6	46.0		0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	19.2	83.4		0.1	0.2	1	ppbv
95-47-6	o-Xylene	9.8	42.6		0.1	0.1	0.5	ppbv
100-42-5	Styrene	11.3	48.1		0.1	0.1	0.5	ppbv
75-25-2	Bromoform	10.2	105		0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	8.5	58.4		0.03	0.03	0.03	ppbv
541-73-1	1,3-Dichlorobenzene	8.8	52.9		0.1	0.1	0.5	ppbv

Report of Analysis

Client:	CB&I Federal Services LLC	Date Collected:	
Project:	Albany Air	Date Received:	
Client Sample ID:	VL0618ABS	SDG No.:	F2781
Lab Sample ID:	VL0618ABS	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL023225.D	1		06/18/14	VL061814

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
106-46-7	1,4-Dichlorobenzene	9	54.1		0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	8.9	53.5		0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.6			65 - 135		96%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1253510		6.67				
540-36-3	1,4-Difluorobenzene	2881870		8.34				
3114-55-4	Chlorobenzene-d5	2539270		13.77				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CALIBRATION SUMMARY

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\

Method File : VL061714AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Jun 17 07:07:57 2014

Last Update : Tue Jun 17 07:07:57 2014

Response Via : Initial Calibration

Calibration Files

0.03=VL023196.D 0.1 =VL023195.D 0.5 =VL023198.D 1 =VL023197.D 2 =VL023194.D 10 =VL023193.D 15 =VL023199.D

	Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...		2.233	2.134	1.668	1.122	1.667	1.765	25.15	
3)	Chlorodifluoro...		1.393	1.314	1.294	1.016	1.001	1.203	15.13	
4)	Chloromethane		0.795	0.726	0.741	0.602	0.585	0.690	13.30	
5) T	Vinyl Chloride	1.100	0.871	0.725	0.697	0.737	0.596	0.603	0.761	23.04
6) T	Bromomethane		0.519	0.493	0.491	0.392	0.391	0.457	13.30	
7)	Chloroethane		0.354	0.323	0.332	0.268	0.270	0.309	12.46	
8) T	Dichlorotetra...		1.967	1.883	1.860	1.508	1.507	1.745	12.64	
9) T	Propene		0.462	0.425	0.526	0.480	0.486	0.476	7.71	
10) T	Heptane		1.617	1.830	2.022	1.746	1.730	1.789	8.43	
11) T	Trichlorofluor...		2.451	2.322	2.240	1.823	1.804	2.128	13.95	
12) T	1,1,2-Trichlor...		1.612	1.570	1.549	1.266	1.257	1.451	12.00	
13)	Ethanol		0.078	0.068	0.059	0.038	0.031	0.055	36.53	
14) T	Bromoethene		0.592	0.566	0.603	0.512	0.516	0.558	7.57	
15) T	Acetone		1.570	1.434	1.448	1.055	1.040	1.310	18.69	
16) T	1,3-Butadiene		0.612	0.608	0.671	0.557	0.561	0.602	7.68	
17)	tert-Butyl alc...		0.750	0.686	0.958	0.960	0.676	0.806	17.67	
18) T	1,1-Dichloroet...		0.810	0.776	0.806	0.674	0.672	0.748	9.24	
19) T	Isopropyl Alcohol		0.587	0.502	0.596	0.536	0.406	0.525	14.64	
20) T	Methylene Chlo...		0.835	0.748	0.731	0.555	0.541	0.682	18.85	
21) T	Allyl Chloride		0.939	0.814	0.887	0.762	0.763	0.833	9.38	
22) T	trans-1,2-Dich...		0.622	0.599	0.678	0.585	0.590	0.615	6.22	
23) T	Vinyl Acetate		2.001	2.220	2.602	2.305	2.310	2.288	9.43	
24) T	1,1-Dichloroet...		1.537	1.496	1.533	1.255	1.257	1.415	10.36	
25) T	Ethyl Acetate		2.879	2.897	3.202	2.688	2.662	2.866	7.55	
26) T	Hexane		1.055	1.118	1.232	1.083	1.091	1.116	6.14	
27) T	Carbon Disulfide		1.525	1.442	1.486	1.217	1.188	1.372	11.47	
28) T	Methyl tert-Bu...		1.446	1.585	1.920	1.742	1.767	1.692	10.73	
29) T	Chloroform		1.742	1.701	1.710	1.401	1.410	1.593	10.77	
30) T	Cyclohexane		0.775	0.814	0.963	0.866	0.890	0.861	8.40	
31) T	cis-1,2-Dichlo...		0.770	0.792	0.970	0.904	0.928	0.873	10.02	
32) T	1,1,1-Trichlor...	2.835	1.803	1.520	1.524	1.551	1.342	1.362	1.705	30.52
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone		0.578	0.623	0.751	0.683	0.682	0.663	9.91	
35) T	Carbon Tetrach...	1.285	0.829	0.683	0.687	0.719	0.636	0.642	0.783	29.47
36) T	Benzene		0.781	0.819	0.967	0.892	0.905	0.873	8.42	
37) T	1,2-Dichloroet...		0.594	0.587	0.622	0.534	0.531	0.573	6.88	

Method	Path : W:\HPCHEM1\MSVOA_L\METHODS\									
Method	File : VL061714AIR.M									
38) T	Trichloroethene	0.483	0.361	0.313	0.336	0.387	0.365	0.385	0.376	14.33
39) T	1,2-Dichloropr...			0.317	0.326	0.364	0.329	0.332	0.334	5.28
40) T	1,4-Dioxane			0.036	0.044	0.036	0.050	0.052	0.043#	16.67
41) T	Tetrahydrofuran			0.279	0.316	0.429	0.405	0.409	0.367	17.95
42) T	Bromodichlorom...			0.691	0.732	0.766	0.688	0.694	0.714	4.77
43)	Methyl Methacr...			0.234	0.292	0.353	0.352	0.356	0.317	16.99
44) T	2,2,4-Trimethy...			1.421	1.663	1.907	1.720	1.726	1.688	10.36
45) T	t-1,3-Dichloro...			0.267	0.308	0.428	0.463	0.471	0.387	24.17
46) T	cis-1,3-Dichlo...			0.336	0.383	0.536	0.552	0.557	0.473	22.16
47) T	1,1,2-Trichlor...			0.307	0.310	0.334	0.295	0.295	0.308	5.17
48) T	Dibromochlorom...			0.445	0.472	0.530	0.494	0.506	0.489	6.65
49) T	Bromoform			0.362	0.409	0.456	0.441	0.454	0.425	9.30
50) T	4-Methyl-2-Pen...			0.634	0.772	0.977	0.899	0.896	0.836	16.07
51) T	2-Hexanone			0.401	0.569	0.797	0.797	0.793	0.671	26.88
52) T	Tetrachloroethene	0.437	0.292	0.263	0.266	0.315	0.303	0.321	0.314	18.62
53) T	Toluene			0.672	0.828	1.068	1.030	1.049	0.930	18.64
54) T	1,2-Dibromoethane			0.835	0.910	1.023	0.961	0.977	0.941	7.64
55) I	Chlorobenzene-d5	-----ISTD-----								
56)	1,1,1,2-Tetrac...			0.517	0.495	0.502	0.443	0.448	0.481	6.95
57) T	Chlorobenzene			1.030	1.008	1.016	0.896	0.900	0.970	6.81
58) T	Ethyl Benzene			1.026	1.278	1.624	1.532	1.534	1.399	17.52
59) T	m/p-Xylene			1.084	1.300	1.440	1.300	1.303	1.285	9.93
60) T	o-Xylene			0.947	1.148	1.296	1.190	1.204	1.157	11.15
61) T	Styrene			0.462	0.638	0.901	0.909	0.911	0.764	26.87
62)	Isopropylbenzene			1.432	1.603	1.779	1.594	1.605	1.603	7.66
63) T	1,1,2,2-Tetrac...			0.935	0.953	0.953	0.811	0.816	0.894	8.22
64)	n-propylbenzene			0.321	0.391	0.435	0.386	0.390	0.385	10.57
65)	tert-Butylbenzene			0.991	1.242	1.397	1.308	1.360	1.260	12.78
66) T	Benzyl Chloride			0.835	0.953	1.096	1.067	1.075	1.005	10.94
67)	sec-Butylbenzene			1.599	1.853	2.006	1.742	1.774	1.795	8.33
68) S	1-Bromo-4-Fluo...	0.805	0.804	0.799	0.798	0.765	0.778	0.738	0.784	3.20
69)	p-Isopropyltol...			1.080	1.378	1.590	1.430	1.458	1.387	13.62
70)	n-Butylbenzene			1.183	1.491	1.694	1.482	1.474	1.465	12.45
71)	2-Chlorotoluene			0.807	1.021	1.292	1.173	1.179	1.094	17.13
72) T	4-Ethyltoluene			0.946	1.267	1.500	1.362	1.365	1.288	16.19
73) T	1,3,5-Trimethy...			1.136	1.393	1.573	1.382	1.396	1.376	11.32
74) T	1,2,4-Trimethy...			1.258	1.514	1.629	1.434	1.464	1.460	9.23
75) T	1,3-Dichlorobe...			0.887	0.935	0.955	0.824	0.836	0.887	6.54
76) T	1,4-Dichlorobe...			0.784	0.842	0.913	0.780	0.780	0.820	7.14
77) T	1,2-Dichlorobe...			0.739	0.791	0.829	0.689	0.692	0.748	8.22
78) T	Hexachloro-1,3...			0.482	0.478	0.493	0.383	0.389	0.445	12.21
79) T	Naphthalene			0.721	0.962	1.252	1.024	0.824	0.957	21.25
80) T	Naphthalene, 2-...			0.141	0.167	0.319	0.302	0.103	0.206	47.51
81) T	1,2,4-Trichlor...			0.416	0.493	0.577	0.477	0.434	0.479	13.15

(#) = Out of Range

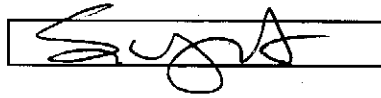
VOLATILE CONTINUING CALIBRATION CHECK

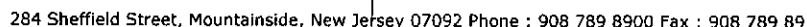
Lab Name: CHEMTECH Contract: SHAW23
 Lab Code: CHEM Case No.: F2781 SAS No.: F2781 SDG No.: F2781
 Instrument ID: MSVOA_L Calibration Date/Time: 06/18/2014 15:12
 Lab File ID: VL023223.D Init. Calib. Date(s): 06/17/2014 06/17/2014
 Heated Purge: (Y/N) N Init. Calib. Time(s): 01:59 06:00
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.765	1.387		-21.42	30
Chloromethane	0.690	0.631		-8.55	30
Vinyl Chloride	0.761	0.654		-14.06	30
Bromomethane	0.457	0.436		-4.59	30
Chloroethane	0.309	0.289		-6.47	30
Trichlorofluoromethane	2.128	1.916		-9.96	30
1,1-Dichloroethene	0.748	0.737		-1.47	30
Acetone	1.310	1.087		-17.02	30
Carbon Disulfide	1.372	1.265		-7.73	30
Methylene Chloride	0.682	0.582		-14.66	30
trans-1,2-Dichloroethene	0.615	0.646		5.04	30
1,1-Dichloroethane	1.415	1.338		-5.44	30
2-Butanone	0.663	0.644		-2.87	30
Carbon Tetrachloride	0.783	0.606		-22.6	30
Chloroform	1.593	1.488		-6.59	30
1,1,1-Trichloroethane	1.705	1.453		-14.78	30
Benzene	0.873	0.902		3.32	30
1,2-Dichloroethane	0.573	0.498		-13.09	30
Trichloroethene	0.376	0.364		-3.19	30
1,2-Dichloropropane	0.334	0.329		-1.5	30
Bromodichloromethane	0.714	0.668		-6.44	30
4-Methyl-2-Pentanone	0.836	0.840		0.48	30
Toluene	0.930	1.043		12.15	30
t-1,3-Dichloropropene	0.387	0.456		17.83	30
cis-1,3-Dichloropropene	0.473	0.540		14.16	30
1,1,2-Trichloroethane	0.308	0.293		-4.87	30
2-Hexanone	0.671	0.750		11.77	30
Dibromochloromethane	0.489	0.485		-0.82	30
Tetrachloroethene	0.314	0.321		2.23	30
Chlorobenzene	0.970	0.844		-12.99	30
1,1,1,2-Tetrachloroethane	0.481	0.414		-13.93	30
Ethyl Benzene	1.399	1.461		4.43	30
m/p-Xylene	1.285	1.199		-6.69	30
o-Xylene	1.157	1.101		-4.84	30
Styrene	0.764	0.867		13.48	30
Bromoform	0.425	0.439		3.29	30
1,1,2,2-Tetrachloroethane	0.894	0.738		-17.45	30
1,3-Dichlorobenzene	0.887	0.771		-13.08	30
1,4-Dichlorobenzene	0.820	0.734		-10.49	30
1,2-Dichlorobenzene	0.748	0.659		-11.9	30
1-Bromo-4-Fluorobenzene	0.784	0.743		-5.23	30

All other compounds must meet a minimum RRF of 0.010.

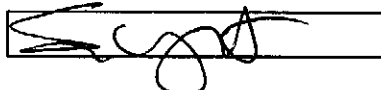
SHIPPING DOCUMENTS

Client Contact Information		Bottle Order ID : B1406024		Courier : UPS		1 of 1 COCs																									
Client ID : SHAW23		Project ID : Albany Air		Sampler Name(s) : EA + HAF		Analysis																									
Customer Name : CB&I Federal Services LLC		Project Manager : Guy galliello, jr		AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified		<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																									
Address : 2790 Mosside Boulevard		Phone Number : 412-858-3305																													
City : Monroeville		Fax Number : 4128569912																													
State : PA		Analysis Turnaround Time																													
Zip Code : 15146-2792		Standard : 15 business days OR		Data Package Type : Cat B/tier 4																											
Country :		Rush (Specify): Days		EDD Type : EQMS																											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas														
HA-RM104	4/8/14 4/13/14	13	11	130	6	70		-30	-6.3	10505	10281	6 L	4.16	VL022907.D	X	X															
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>62</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>47</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	62			Stop	47			GC/MS Analyst Signature (TO-15) 									
	Ambient	Maximum	Minimum																												
Start	62																														
Stop	47																														
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>1019.2</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>1011.5</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	1019.2			Stop	1011.5			** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO									
	Ambient	Maximum	Minimum																												
Start	1019.2																														
Stop	1011.5																														
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings: 490 ppb																															
Sampling site (State):																															
Quick Connector required : NO																															
Canisters Shipped by: H. Sanchez				Date/Time: 6/10/14				Canisters Received by: RBJ				Date/Time: 6/11/14 9:50																			
Samples Relinquished by: H. Sanchez				Date/Time: 6/11/14				Received by:				Date/Time:																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																			
B1406024 - 3																															



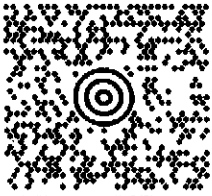
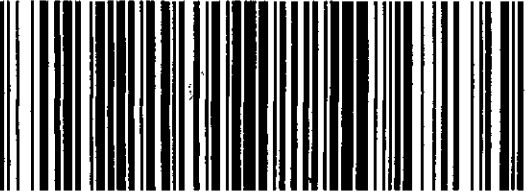
F278

Client Contact Information				Bottle Order ID : B1406024				Courier : UPS				1 of 1 COCs					
Client ID : SHAW23 Project ID : Albany Air				Sampler Name(s) : RA + HAF				Analysis				Matrix					
Customer Name : CB&I Federal Services LLC Address : 2790 Mosside Boulevard City : Monroeville State : PA Zip Code : 15146-2792 Country : USA				Project Manager : Guy gallelo, jr				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified									
				Phone Number : 412-858-3305													
				Fax Number : 4128569912													
				Site Details:													
				Analysis Turnaround Time				Data Package Type : Cat B / tier 4									
				Standard : 15 business days OR				EDD Type : EAMS									
Rush (Specify): Days																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
1A-RM105	6/10/14	11:21	08:44	27	3.5	170	170	-30	-9.2	10476	10279	6 L	4.16	VL022927.D	X	X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start		62															
Stop		67															
Pressure (Inches of Hg) mb HAF										** Submittal of this COC indicates approval of the analysis based on existing conditio							
		Ambient	Maximum	Minimum													
Start		1019.2															
Stop		1011.5															
Please follow the instructions on the back of this CO																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings:																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: [Signature]				Date/Time: 6/10/14				Canisters Received by: RSJ				Date/Time: 6/10/14 9:50					
Samples Relinquished by: H. Gallelo				Date/Time: 6/16/14				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					
B1406024 - 2																	

Client Contact Information				Bottle Order ID : B1406024				Courier :				1 of 1 COCs																																			
Client ID : SHAW23				Project ID : Albany Air				Sampler Name(s) : PA + HAF				Analysis																																			
Customer Name : CB&I Federal Services LLC Address : 2790 Mosside Boulevard City : Monroeville State : PA Zip Code : 15146-2792 Country :				Project Manager : Guy gallelo, jr				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified				<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																			
Phone Number : 412-858-3305																																															
Fax Number : 4128569912																																															
Site Details:																																															
Analysis Turnaround Time																																															
Standard : 15 business days OR				Data Package Type : cat B/tier 4																																											
Rush (Specify): STD Days				EDD Type : EQUS																																											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas																														
HAF 6/11/14	6/12/14	6:12	6:14	130	5	70	70	-30	-6.3	10619	10291	6 L	4.16	VL023098.D	X	X																															
Duplicate Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>62</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>67</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	62			Stop	67			GC/MS Analyst Signature (TO-15) 																									
	Ambient	Maximum	Minimum																																												
Start	62																																														
Stop	67																																														
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>1019.2</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>1011.5</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	1019.2			Stop	1011.5			** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO																									
	Ambient	Maximum	Minimum																																												
Start	1019.2																																														
Stop	1011.5																																														
Special Instructions/QC Requirements & Comments :																																															
Suspected Contamination: High Medium Low PID Readings: 490 ppb																																															
Sampling site (State):																																															
Quick Connector required : NO																																															
Canisters Shipped by: HAF				Date/Time: 6/10/14				Canisters Received by: RSJ				Date/Time: 6/18/14 950																																			
Samples Relinquished by: HAF				Date/Time: 6/16/14				Received by:				Date/Time:																																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																																			
B1406024 - 4																																															

Client Contact Information				Bottle Order ID : B1406024				Courier : UPS				1 of 1 COCs											
Client ID : SHAW23				Project ID : Albany Air 7750025.006/0200				Sampler Name(s) : RA + HAF				Analysis											
Customer Name : CB&I Federal Services LLC Address : 2790 Mosside Boulevard City : Monroeville State : PA Zip Code : 15146-2792 Country : USA				Project Manager : Guy gallelo, jr				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified				<table border="1"> <tr> <td colspan="2">Matrix</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>				Matrix							
				Matrix																			
Phone Number : 412-858-3305																							
Fax Number : 4128569912																							
Site Details:																							
Analysis Turnaround Time				Data Package Type : cat B/tier 4				EDD Type : equis				TO-15											
Standard : 15 business days OR				Rush (Specify): Days				Flow Reg. ID				Can ID											
Sample Identification				Sample Date(s)				Time Start (24 hr Clock)				Time Stop (24 hr Clock)											
Can Vacuum in Field ("Hg) (Start)				Can Vacuum in Field ("Hg) (Stop)**				outside Interior Temp. (F) (Start)				outside Interior Temp. (F) (Stop)											
Out going Can Pressure ("Hg)(Lab)				In coming Can Pressure ("Hg)(Lab)				Can Size (L)				Flow Controller Readout											
Can Cert ID				TO-15				Indoor/Ambient Air				Soil Gas											
OA-1				6/12/14				1146				1109											
+30				5				62				68											
-30				-8.0				10190				10313											
6 L				4.16				VL022929.D				X											
X				X																			
Temperature (Fahrenheit)				GC/MS Analyst Signature (TO-15)				** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO															
Ambient				Maximum								Minimum											
Start				Stop																			
Pressure (Inches of Hg)				Ambient								Maximum				Minimum							
Start				Stop																			
Special Instructions/QC Requirements & Comments :																							
Suspected Contamination: High Medium Low PID Readings:																							
Sampling site (State):																							
Quick Connector required : NO																							
Canisters Shipped by: HC				Date/Time: 6/10/14				Canisters Received by: RSJ				Date/Time: 6/12/14 950											
Samples Relinquished by: H. Janelle				Date/Time: 6/16/14				Received by:				Date/Time:											
Relinquished by:				Date/Time:				Received by:				Date/Time:											

B1406024 - 5

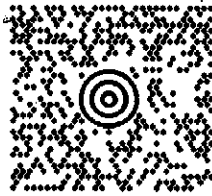
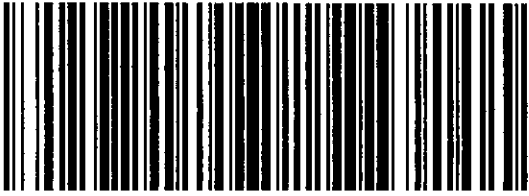
LISA SCHERMERHORN 5187831996 LATHAM 73V325 13 BRITISH AMERICAN BLVD LATHAM NY 12110		17 LBS	1 OF 4
SHIP TO: SAMPLE RECEIPT 908-789-8900 CHEMTECH 284 SHEFFIELD ST. MOUNTAINSIDE NJ 07092			
	NJ 078 9-61 		
UPS NEXT DAY AIR		1	
TRACKING #: 1Z 73V 325 01 9988 4205			
			
BILLING: P/P			
Reference: 00501.77500205.4701.00010200 Senders Name: Heather		CS 16.2.03. WNTIE80 51.0A 04/2014 	

R51
950
6/18/14

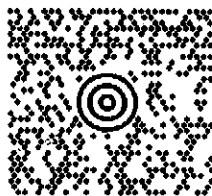
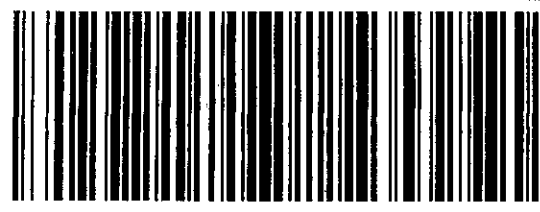
Page 1 of 2

UPS CampusShip: Shipment Label

<https://www.ups.com/ship/create?ActionOriginPair=default> Print Window... 6/17/2014

LISA SCHERMERHORN 5187831996 LATHAM 73V325 13 BRITISH AMERICAN BLVD LATHAM NY 12110		17 LBS	2 OF 4 6.2
SHIP TO: SAMPLE RECEIPT 908-789-8900 CHEMTECH 284 SHEFFIELD ST. MOUNTAINSIDE NJ 07092			
	NJ 078 9-61 		
UPS NEXT DAY AIR		1	
TRACKING #: 1Z 73V 325 01 9999 6817			
			
BILLING: P/P			
Reference: 00501.77500205.4701.00010200 Senders Name: Heather		CS 16.2.03. WNTIE80 51.0A 04/2014 	

R51
950
6/18/14

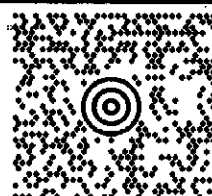
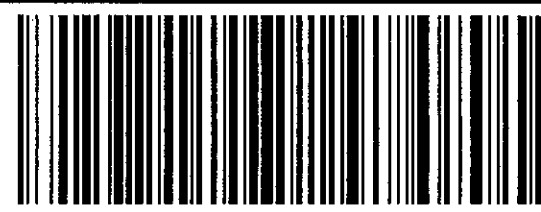
LISA SCHERMERHORN 5187831996 LATHAM 73V325 13 BRITISH AMERICAN BLVD LATHAM NY 12110		18 LBS	3 OF 4
SHIP TO: SAMPLE RECEIPT 908-789-8900 CHEMTECH 284 SHEFFIELD ST. MOUNTAINSIDE NJ 07092			
	NJ 078 9-61 		
UPS NEXT DAY AIR		1	
TRACKING #: 1Z 73V 325 01 9978 9827			
			
BILLING: P/P			
Reference: 00501.77500205.4701.00010200 Senders Name: Heather			

R5J
950
6/18/14

UPS CampusShip: Shipment Label

<https://www.ups.com/ship/create?ActionOriginPair=default> Print Window... 6/17/2014

Page 2 of 2

LISA SCHERMERHORN 5187831996 LATHAM 73V325 13 BRITISH AMERICAN BLVD LATHAM NY 12110		18 LBS	4 OF 4
SHIP TO: SAMPLE RECEIPT 908-789-8900 CHEMTECH 284 SHEFFIELD ST. MOUNTAINSIDE NJ 07092			
	NJ 078 9-61 		
UPS NEXT DAY AIR		1	
TRACKING #: 1Z 73V 325 01 9511 9236			
			
BILLING: P/P			
Reference: 00501.77500205.4701.00010200 Senders Name: Heather			

R3J
950
6/18/14



284 Sheffield Street Mountainside NJ 07092 Tel. 908-7898900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Louisiana	5035
Maryland	296
Massachusetts	M-NJ503
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other :

DOD ELAP Certified (L-A-B Accredited), ISO/IEC 17025	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

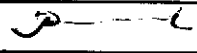
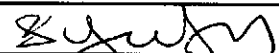
QA Control Code: A2070148

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	
Laboratory: <u>Chemtech</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>
<u>REGINALD</u>	Title: <u>Sample Custodian</u>
Field Sample Seal No. <u>F2781</u>	Date Broken <u>6/18/2014</u> Military Time Seal Broken: <u>09:56:00</u>
Case No.: <u>Albany Air</u>	Analytical Parameter/Fraction <u>MOCMS Group2</u>

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
F2781-01	IA-RM104		
F2781-02	IA-RM105		
F2781-03	DUPLICATE		
F2781-04	OA-1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/18/14	309pm	Signature  Printed Name <u>KSJ</u>	Signature  Printed Name <u>Reginald</u>	TO JOE AIR LAB
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 71

Client Sample ID #:

QA-1

Client Name:

CBT

Project Name:

USACE ARC

Date:

01/31/14

Analysis:

FD-15

Comments:

CHEMTECH'S SAMPLE ID:

Date Received: _____ Expiration Date: _____ Date of Disposal: _____

StorageLocation: Air Lab

Sample: F2781-F2781-04

Cust Sample: OA-1

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 78

Client Sample ID #:

Duplicate

Client Name:

CBT

Project Name:

USACE ARC

Date:

01/31/14

Analysis:

FD-15

Comments:

CHEMTECH'S SAMPLE ID:

Date Received: _____ Expiration Date: _____ Date of Disposal: _____

StorageLocation: Air Lab

Sample: F2781-F2781-03

Cust Sample: DUPLICATE

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-4

CHEMTECH

Client Sample ID #: 7A-RM 104

Client Name: C&T

Project Name: USACE ARC

Date: 6/13/14 Time: 1103

Analysis: FO-15

Comments: _____

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____ Date of Disposal: _____

StorageLocation: Air Lab
Sample: F2781-F2781-01
Cust Sample: IA-RM104

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 78

CHEMTECH

Client Sample ID #: 7A-RM 105

Client Name: C&T

Project Name: USACE ARC

Date: 6/13/14 Time: 844

Analysis: FO-15

Comments: _____

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____ Date of Disposal: _____

StorageLocation: Air Lab
Sample: F2781-F2781-02
Cust Sample: IA-RM105