

NAVY AND MARINE CORPS PUBLIC HEALTH CENTER PREVENTION AND PROTECTION START HERE

# Navy and Marine Corps Public Health Center

Appendix L Resolution Consultants Supplemental Environmental Investigation for the Formaldehyde Sampling Results

6 May 2016

620 John Paul Jones Circle, Suite 1100 Portsmouth, VA 23708-2103



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Resolution Consultants A Joint Venture of AECOM & EnSafe 1500 Wells Fargo Building 440 Monticello Avenue Norfolk, Virginia 23510

6 May 2016

### VIA ELECTRONIC MAIL

Mr. Arne Olsen Remedial Project Manager Naval Facilities Engineering Command, Southeast IPT Gulf Coast OPUE3 Building 135 — Naval Air Station Jacksonville Jacksonville, Florida 32212

### RE: Supplemental Environmental Investigation Formaldehyde Sampling Results — Naval Station Guantanamo Bay, Cuba Contract No. N62470-11-D-8013 Contract Task Order JMB5

Dear Mr. Olsen:

Resolution Consultants performed a Supplemental Environmental Investigation of the Office of Military Commissions Camp Justice, also known as Area of Operation Patriot, at United States Naval Station Guantanamo Bay (NS GTMO), Cuba. The work was conducted at the request of Naval Facilities Engineering Command, Southeast, under Comprehensive Long-term Environmental Action Navy Contract No. N62470-11-D-8013, Contract Task Order JMB5, Statement of Work Number SCSR1501 (Modification 2). This letter identifies sample dates and locations, presents analytical laboratory results, and discusses data validation and other activities associated with the collection of indoor air samples for formaldehyde analysis.

Resolution Consultants mobilized to NS GTMO on 15 April 2016 and conducted sampling activities through 23 April 2016.

### Sample Locations

As shown on Figures 1 through 6 in Attachment A, sorbent cartridges were used to collect 31 indoor air samples and 2 field blanks to determine the presence of formaldehyde in the following buildings, Cuzcos, and modular structures/trailers.

- Cuzcos on 21 April 2016
- Various structures inside the Expeditionary Legal Complex used for meeting spaces or administrative purposes on 22 April 2016



- Satellite and family trailers used for administrative purposes outside Building AV-29 on 22 and 23 April 2016
- Multiple rooms used for administrative purposes in Hangar AV-32 on 22 and 23 April 2016

### **Sample Collection**

Prior to deploying sorbent cartridges, the heating, ventilating, and air conditioning systems at each location were operating at occupation levels. Prior to sample collection, each air sampling pump was calibrated to a flow rate of 1.2 liters per minute using a rotameter to measure the upstream airflow as it entered the cartridge. Once the calibration was complete, a new cartridge was connected to the air sampling pump and the starting time was recorded. Samples were collected for approximately 8 hours (480 minutes), except for samples collected in the satellite trailer outside of Building AV-29 and the Media Operations Room 1 in Hangar AV-32. Those two samples were collected for approximately 12 hours (720 minutes) following initial pump failure and to later facilitate coordination of sample collection.

At the end of each sampling period, pumps were turned off, stop times were recorded, and the cartridge caps were replaced. Each cartridge was labeled with a sample identification number and air sampling pumps were recalibrated to verify the flow rate. Field blanks were collected in the same manner as the samples, except that no air was drawn through the cartridges.

### **Analytical Results**

Sample media cartridges were chilled during storage, and were packed in a cooler with frozen ice packs for shipment and submittal to Eurofins Air Toxics, Inc., after sample collection. Each cartridge was analyzed for formaldehyde using United States Environmental Protection Agency (U.S. EPA) Method TO-11A. Table 1 summarizes sample identification numbers, sample locations, start and stop times, and sample results. The Eurofins Air Toxics laboratory report is included as Attachment B.



Table 1						
Formaldehyde Analytical Results						
Naval Station Guantanamo Bay, Cuba						
Location Result						
Sample ID	(Building/Room No.)	Sample Date	(µg/m³)			
AV29IAFMFT	AV-29/Family Trailer	4-22-2016	9.5			
AV29IAFMST	AV-29/Satellite Trailer	4-23-2016	14			
AV32IAFMM01	AV-32/M01	4-23-2016	5.9			
AV32IAFMM02	AV-32/M02	4-22-2016	11			
AV32IAFMMP	AV-32/MP	4-22-2016	5.5			
CZIAFM10B	CUZCOS/10B	4-21-2016	14			
CZIAFM11B	CUZCOS/11B	4-21-2016	5.3			
CZIAFM16A	CUZCOS/16A	4-21-2016	5.4			
CZIAFM17A	CUZCOS/17A	4-21-2016	9.9			
CZIAFM22A	CUZCOS/22A	4-21-2016	5			
CZIAFM23A	CUZCOS/23A	4-21-2016	4.8			
CZIAFM27B	CUZCOS/27B	4-21-2016	2.8			
CZIAFM28B	CUZCOS/28B	4-21-2016	4.8			
CZIAFM35A	CUZCOS/35A	4-21-2016	16			
CZIAFM36A	CUZCOS/36A	4-21-2016	5.5			
CZIAFM43A	CUZCOS/43A	4-21-2016	2.3			
CZIAFM44A	CUZCOS/44A	4-21-2016	4.7			
CZIAFM47A	CUZCOS/47A	4-21-2016	5.5			
CZIAFM48A	CUZCOS/48A	4-21-2016	3.3			
CZIAFM4A	CUZCOS/4A	4-21-2016	8.8			
CZIAFM5A	CUZCOS/5A	4-21-2016	13			
ELCIAFMBL1	ELC/BL-1	4-22-2016	4.3			
ELCIAFMBL1-COM	ELC/BL-1 COM	4-22-2016	4.5			
ELCIAFMBL11	ELC/BL-11	4-22-2016	6.1			
ELCIAFMBL2	ELC/BL-2	4-22-2016	4.7			
ELCIAFMBL29	ELC/BL-29	4-22-2016	11			
ELCIAFMBL30	ELC/BL-30	4-22-2016	7.5			
ELCIAFMBL3107	ELC/BL3-107	4-22-2016	5.6			
ELCIAFMBL4	ELC-BL-4	4-22-2016	5.1			
ELCIAFMBL5	ELC/BL-5	4-22-2016	6.1			
ELCIAFMBL8	ELC/BL-8	4-22-2016	7.9			
CZIAFMBLK	Cuzcos Field Blank	4-21-2016	0.053			
AV32IAFMBLK	AV-32 Field Blank	4-22-2016	0.032			

*Note:* µg/m³

ıg/m<sup>3</sup> = micrograms per cubic meter



### **Data Verification and Validation**

Data verification was performed to assess the completeness of laboratory data by reviewing chain-of-custody forms, laboratory sample logs, receipt condition reports, and laboratory deliverables. Data verification was performed on laboratory analytical data; 10 percent of the raw data (including instrument printouts) was manually validated. Laboratory data, provided in electronic format, was verified for accuracy prior to use and during the data validation process.

After receipt of the full data package and electronic deliverables, results were validated independently from the laboratory to assess data quality against criteria established in the analytical methods, U.S. EPA data validation guidelines (U.S. EPA August 2014), and *Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories Version 5.0* (DoD July 2013), where applicable. No results were qualified during data review; therefore, all results are considered usable by the project, according to U.S. EPA and DoD guidelines.

An electronic version of this report has been electronically mailed to the NAVFAC SE Contracting Officers Technical Representative.

Sincerely,

**Resolution Consultants** 

By: Paul V. Stoddard, PG Task Order Manager

Robert Thomas, CHMM Environmental Scientist

Attachment AFiguresAttachment BLaboratory Analytical Report



Attachment A Figures



AV29 FIRST FLOOR

AV29IAFMST -



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PROJECTS/17816 NS GTMO/PLANS/17816\_B012\_CUZCOS\_TENTS\_GTMO.DWG l:∖cAD

Attachment B Laboratory Analytical Report



5/2/2016 Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way

Logan UT 84321

Project Name: Site Investigation Project #: 0888817816 Workorder #: 1604558

Dear Mr. Mike Dryden

The following report includes the data for the above referenced project for sample(s) received on 4/27/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-11A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Kga Vych

Kyle Vagadori Project Manager

A Eurofins Lancaster Laboratories Company

180 Blue Ravine Road, Suite B Folsom, CA 95630



### WORK ORDER #: 1604558

#### Work Order Summary

CLIENT:	Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way Logan, UT 84321	BILL TO:	Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way Logan, UT 84321
PHONE:	925-513-1270	<b>P.O.</b> #	
FAX:		<b>PROJECT #</b>	0888817816 Site Investigation
DATE RECEIVED:	04/27/2016	CONTACT	Kula Vagadori
DATE COMPLETED	: 05/02/2016	CONTACT:	Kyle vagadon
FRACTION #	NAME	TEST	
01A	CZIAFM27B-1	Modified TO-1	11A
02A	CZIAFM28B-1	Modified TO-1	11A
03A	CZIAFM35A-1	Modified TO-1	11A
04A	CZIAFM36A-1	Modified TO-1	11A
05A	CZIAFM48A-1	Modified TO-1	11A
06A	CZIAFM47A-1	Modified TO-1	11A
07A	CZIAFM44A-1	Modified TO-1	11A
08A	CZIAFM43A-1	Modified TO-1	11A
09A	CZIAFM4A-1	Modified TO-1	11A
10A	CZIAFM5A-1	Modified TO-1	11A
11A	CZIAFM10B-1	Modified TO-1	11A
12A	CZIAFM11B-1	Modified TO-1	11A
13A	CZIAFM23A-1	Modified TO-1	11A
14A	CZIAFM22A-1	Modified TO-1	11A
15A	CZIAFM17A-1	Modified TO-1	11A
16A	CZIAFM16A-1	Modified TO-1	11A
17A	CZIAFMBLK	Modified TO-1	11A
18A	Lab Blank	Modified TO-1	11A
19A	LCS	Modified TO-1	11A
19AA	LCSD	Modified TO-1	11A

CERTIFIED BY:

layes

DATE: 05/02/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc. 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

#### LABORATORY NARRATIVE Modified TO-11A Earth Toxics, Inc. Workorder# 1604558

Seventeen TO-11 Cartridge samples were received on April 27, 2016. The laboratory performed analysis via modified Method TO-11A using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. The method involves eluting the sorbent tubes with acetonitrile using a gravity feed technique. Method modifications taken to run these samples include:

Requirement	TO-11A	ATL Modifications
ACN Purity Check	Contribution of analytes from ACN determined as described Sections 9.1.1 and 9.1.2 of Compendium TO-11A.	Total contribution of analytes from ACN and cartridge combined is determined.
Initial Calibration Curve (ICAL)	Multi-point using linear regression performed every 6 months; r^2 > 0.999	Multi-point using average Response Factor; % RSD = 10 %. Re-calibration if daily cal. fails, major maintenance, or column change. Linear regression is performed when requested.</td
Blank Subtraction	Average blank concentrations calculated. Blank value subtracted from sample result.	One Lab Blank is analyzed per batch; no blank subtraction performed on samples.

### **Receiving Notes**

🛟 eurofins

There were no receiving discrepancies.

### **Analytical Notes**

Sampling volume was supplied by the client. A sample volume of 586 L was used to report sample CZIAFMBLK and the Laboratory Blank.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Media for this analysis was certified at the Reporting Limit. Concentrations that are below the level at which the media was certified may be false positives.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.



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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



# **Summary of Detected Compounds AMBIENT AIR: EPA METHOD TO-11A HPLC**

#### 714 61/270 1 Clie

Client Sample ID: CZIAFM27B-1				
Lab ID#: 1604558-01A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.085	1.6	2.8
Client Sample ID: CZIAFM28B-1				
Lab ID#: 1604558-02A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.8	4.8
Client Sample ID: CZIAFM35A-1				
Lab ID#: 1604558-03A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	9.0	16
Client Sample ID: CZIAFM36A-1				
Lab ID#: 1604558-04A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5
Client Sample ID: CZIAFM48A-1				
Lau 107, 1004330-03A				

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	1.9	3.3

#### Client Sample ID: CZIAFM47A-1

Lab ID#: 1604558-06A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5



# Summary of Detected Compounds AMBIENT AIR: EPA METHOD TO-11A HPLC

### Client Sample ID: CZIAFM44A-1

Compound	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	2.7	4.7
Client Sample ID: CZIAFM43A-1				
Lab ID#: 1604558-08A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	1.3	2.3
Client Sample ID: CZIAFM4A-1				
Lab ID#: 1604558-09A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	5.0	8.8
Client Sample ID: CZIAFM5A-1				
Lab ID#: 1604558-10A				
	Rnt Limit	Rot. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	7.3	13
Client Sample ID: CZIAFM10B-1				
Client Sample ID: CZIAFM10B-1 Lab ID#: 1604558-11A				
Client Sample ID: CZIAFM10B-1 Lab ID#: 1604558-11A	Rot Limit	Rpt. Limit	Amount	Amount
Client Sample ID: CZIAFM10B-1 Lab ID#: 1604558-11A Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	3.1	5.3



# Summary of Detected Compounds AMBIENT AIR: EPA METHOD TO-11A HPLC

### Client Sample ID: CZIAFM23A-1

Lab ID#: 1604558-13A

0	Rpt. Limit	Rpt. Limit	Amount	Amount
	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldenyde	0.050	0.087	2.7	4.8
Client Sample ID: CZIAFM22A-1				
Lab ID#: 1604558-14A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	2.9	5.0
Client Sample ID: CZIAFM17A-1				
Lab ID#: 1604558-15A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	5.7	9.9
Client Sample ID: CZIAFM16A-1				
Lab ID#: 1604558-16A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	3.1	5.4
Client Sample ID: CZIAFMBLK				
Lab ID#: 1604558-17A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.085	0.031 J	0.053 J



#### Client Sample ID: CZIAFM27B-1 Lab ID#: 1604558-01A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:50:00 PM f0429037 Dil. Factor: Date of Analysis: 4/29/16 11:17 PM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug/m3) (ug) (ug) Formaldehyde 0.050 0.085 1.6 2.8



#### Client Sample ID: CZIAFM28B-1 Lab ID#: 1604558-02A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:48:00 PM f0429038 Dil. Factor: Date of Analysis: 4/29/16 11:43 PM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 2.8 4.8



#### Client Sample ID: CZIAFM35A-1 Lab ID#: 1604558-03A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:51:00 PM f0429039 Dil. Factor: Date of Analysis: 4/30/16 12:09 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 9.0 16



#### Client Sample ID: CZIAFM36A-1 Lab ID#: 1604558-04A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:53:00 PM f0429040 Dil. Factor: Date of Analysis: 4/30/16 12:35 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 3.2 5.5



#### Client Sample ID: CZIAFM48A-1 Lab ID#: 1604558-05A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:31:00 PM f0429041 Dil. Factor: Date of Analysis: 4/30/16 01:01 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 1.9 3.3



#### Client Sample ID: CZIAFM47A-1 Lab ID#: 1604558-06A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:33:00 PM f0429042 Dil. Factor: Date of Analysis: 4/30/16 01:27 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 3.2 5.5



#### Client Sample ID: CZIAFM44A-1 Lab ID#: 1604558-07A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:36:00 PM f0429043 Dil. Factor: Date of Analysis: 4/30/16 01:53 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 2.7 4.7



#### Client Sample ID: CZIAFM43A-1 Lab ID#: 1604558-08A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:38:00 PM f0429044 Dil. Factor: Date of Analysis: 4/30/16 02:19 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 1.3 2.3



#### **Client Sample ID: CZIAFM4A-1** Lab ID#: 1604558-09A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:10:00 PM f0429045 Dil. Factor: Date of Analysis: 4/30/16 02:45 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 5.0 8.8



#### **Client Sample ID: CZIAFM5A-1** Lab ID#: 1604558-10A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:13:00 PM f0429081 Dil. Factor: Date of Analysis: 4/30/16 06:19 PM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 7.3 13



#### Client Sample ID: CZIAFM10B-1 Lab ID#: 1604558-11A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:16:00 PM f0429049 Dil. Factor: Date of Analysis: 4/30/16 04:29 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 8.0 14



#### Client Sample ID: CZIAFM11B-1 Lab ID#: 1604558-12A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:20:00 PM f0429050 Dil. Factor: Date of Analysis: 4/30/16 04:55 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 3.1 5.3



#### Client Sample ID: CZIAFM23A-1 Lab ID#: 1604558-13A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:01:00 PM f0429051 Dil. Factor: Date of Analysis: 4/30/16 05:21 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 2.7 4.8



#### Client Sample ID: CZIAFM22A-1 Lab ID#: 1604558-14A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 3:59:00 PM f0429052 Dil. Factor: Date of Analysis: 4/30/16 05:47 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 2.9 5.0



#### Client Sample ID: CZIAFM17A-1 Lab ID#: 1604558-15A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:04:00 PM f0429053 Dil. Factor: Date of Analysis: 4/30/16 06:12 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 5.7 9.9


#### Client Sample ID: CZIAFM16A-1 Lab ID#: 1604558-16A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:07:00 PM f0429054 Dil. Factor: Date of Analysis: 4/30/16 06:38 AM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 3.1 5.4



#### **Client Sample ID: CZIAFMBLK** Lab ID#: 1604558-17A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/21/16 4:28:00 PM f0429036 Dil. Factor: Date of Analysis: 4/29/16 10:51 PM 1.00 Date of Extraction: 4/29/16 Rpt. Limit Amount **Rpt.** Limit Amount Compound (ug) (ug/m3) (ug) (ug/m3) Formaldehyde 0.050 0.085 0.031 J 0.053 J

Air Sample Volume(L): 586 J = Estimated value.

Container Type: TO-11 Cartridge



#### Client Sample ID: Lab Blank Lab ID#: 1604558-18A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	f0429048	Date	e of Collection: NA	16 04:03 AM
Dil. Factor:	1.00	Date	e of Analysis: 4/30/	
Compound	Rpt. Limit	Rpt. Limit	Amount	Amount
	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.085	0.026 J	0.044 J

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Air Sample Volume(L): 586

J = Estimated value.

**Container Type: NA - Not Applicable** 



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# **Air Toxics**

#### Client Sample ID: LCS Lab ID#: 1604558-19A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429033 1.00	Date of Collection: NA Date of Analysis: 4/29/16 09:34 Date of Extraction: 4/29/16				
Compound		%Recovery	Method Limits			
Formaldehyde		91	85-115			

Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable



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# Air Toxics

#### Client Sample ID: LCSD Lab ID#: 1604558-19AA AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429034 1.00	Date of Collection: NA Date of Analysis: 4/29/16 10:00 I Date of Extraction: 4/29/16				
Compound		%Recovery	Method Limits			
Formaldehyde		98	85-115			

Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable

		CHAIN OF C	CUSTODY AND A	NALYTICAL	REQUES	T RECO	RD		сос	No.				Page	1	0	f	3				
	))	Project Name: Site Investigation					PO No. Project No: 08878 1781 (Phase: ST Task; ST															
RESO	LUTION	Site Location: GTMD, Cuba Sample Analysis Requested (E						i (Enti	(Enter number of containers for each test)													
CONSU	LTANTS	CTO NO. JMB5	RC Task Order	Manager:	anl S	todda	r J		(3)→					Τ	T	T				Ī	Т	<u> </u>
Sampler/S	Site Phone#	Robbre Tho	mas/ (615	)255-	9300							्र									MSD	
Lab Name	* Ai	r Toxics	Tu	rnaround Time	(specify):	7 d	ay5		Itainers	hyd e		048									or MS/	
Lab ID	Sample ID (sys_samp_ca	vde)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Cor	Formal de 1		Sample U	Mn t-f								Extra Volume f	НОГД
ola	CZIA	FM278-1	27B	4/21/16	1550		N	N	1	Х		586	L									
022	CZJI	HFM28B-1	28B	4/21/16	1548		N	N	)	X	5	576	L			T						
03a	CZ]	AFM 3SA-1	3SA	4/21/16	1551		N	N	)	X	ļ	576	L									
04A	C2]	AFM36 A-1	36A	4/21/16	1553		N	N	)	X	4	576	L			Ì						
052	C21	AFM-18A-1	48 A	4/21/16	153		N	N	1	X	ļ	576	2									
060	CZI	AFM47A-1	47A	4/21/16	1533		N	Ň	)	X	ļ	576	2									
070	[2]	AFM 444-1	44A	4/20116	1536		N	٨٢	j	X		576	9									
080	623	AFM 43A-1	43 A	4/21/16	1538		N	Ň	)	X		576	1									_
09a	C2I	AFMYA-1	4A	4/21/110	1610		N	N		X		576	1									
10a	CZI	AFMSA-1	SA	4/21/11	1613		N	Ai	1	X		576	1									$\neg$
110	CZI	AFM10B-1	10 B	4/21/14	1616		N	Ň	)	X		576	1							<b>†</b>	$\rightarrow$	
120	CZ	CAFM11B-1	11B	4/21/16	1620		Ň	Ň	)	X		576	$\overline{L}$								$\rightarrow$	-l è
Field Co	mments:				Lab Com	ments:	L	L				l		L.		Sam	ple Sh	nipmer	nt and I	Deliver	y Deta	nils
Distory Soul Intact? Distory Temp 1.6° Fed Ex					Number of coolers in shipment:				4													
1 Jah	hed by (signat	ure) me 4/	Date 23/16	Time 0710	Received I	by (signa	ture)			41	Date 23/	16	Time 6	716		Samp	les Ice	ed?(cher	ck) Yes	5 <u>X</u>	No	
$^{2}$	<u> </u>	4/	25/16 0	0945	$^{2}Q_{1}$	[n-				0HZ	5/201	6	09	5		Airbill	No:		041	26/2	2016	5
3/11	14-	0412012010 041	25/2210	163D	3 Minto	an Ar	ant	1° Er	ATC.	4/2	2/14	·	09	40		Date !	Shippe	ed: 🛶	Dulg	निय	<del>.</del>	

(1) AA +Kirblent air, AQ=Air quality control, ASB=Asbestos, CK=Caulk, DS=Storm drain sediment, GS=Soil gas, IC=IDW/Concrete, IDD=IDW Solid, IDS=IDW soil, IDW=IDW Water, LF=Free Product, MA=Mastic, PC=Paint Chips, SC=Cement/Concrete, SE=Sediment, SL=Sludge, SO=Soil, SQ=Soil/Solid quality control, SSD=Subsurface sediment, SU=Surface soil (<6 in), SW=Swab or wipe, TA=Animal tissue, TP=Plant tissue, TQ=Tissue quality control, WG=Ground water, WL=Leachate, WO=Ocean water, WP=Drinking water, WQ=Water quality control, WR=Ground water effluent, WS=Surface water, WU=Storm water, WW=Waste water (2) Sample Type: AB=Ambient Blk, EB=Equipment Blk, FB=Field Blk, FD=Field Duplicate Sample, IDW=Investigative-Derived Waste, MIS=Incremental Sampling Methodology, N=Normal Environmental Sample, TB=Trip Blk (3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Solium Hydroxide, SA=Sulfuric Acid, ME=Methanol, SB=sodium bisulfate, ST=Sodium Thiosulfate If NO preservative added leave blank Rev S

	CHAIN OF C	USTODY AND A	NALYTICAL	REQUES	T RECO	RD		сос	No.			Page		2_ of	f 3					
	Project Name: Sile	Investige	tion					PO No. Project No:02222 J & // Phase: ST Task: ST												
RESOLUTION	Site Location: GTM 0	, Cuba						S	Sampl	e Analy	sis Re	queste	ed (En	ter nun	nber o	e f conta	ainers f	or each	test)	
CONSULTANTS	CTO NO. JM B5	TTO NO.JMB5 RC Task Order Manager: Paul Stoddard (3)→						Π				Т	Ť							
Sampler/Site Phone#	Robbie Thomas	5/(615)25	5-9300	>					A		2	1							dst	
Lab Name: Aic	Joxics	<u>7 (0,4,</u> Tu	rnaround Time	(specify):	7 4	c		iners	pr	_	ž –								WS	
				( <i>/)</i> -			[	Conta	de)	-	3							,	e to	
Lab ID Sample IE (sys_samp_c	) iode)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of	formal		aldinoc								extra Volum	40LD
132 C2J	A FM 23A-1	23 A	4/21/16	1601		N	N	1	X	5	76 L	1							-	
14a CZ-	1A FM 22.A-1	22A	4/21/16	1559		N	N	7	X	57	6 L	1							+	•••••
15a (2]	LAFMIJA-1	17A	4/21/16	1604		Å)	N	İ	χ	57	67	1							+	
160 CZI	AFM 16A-1	16 A	4/21/16	1607		Ň	٨r	1	X	57	61								+	
17a CZI	AFM BLK	BLK	4/21/16	1628		Ň	1/	1	X	Q	S L								+	
AV32	JAFMMP-1	MP	4/22/16	1519		N	N)	1	X	57	6 L	1							-	
/ AV32	JAFM MOL-1	MOL	4/23/16	0636		Ň	Ň		X	7.	3L								$\uparrow$	
/ AV3	ZJAFM MOZO-1	MOZ	4/22/16	1526		N/	٨/	)	Х	\$7	6 L								T	
6/ AV32	LIAFMBLK	BLK	4/22/16	1530		Ň	Ň	1	X	ø	1								+	
/ ELCJ	AFM BL29-1	BL 29	4/22/16	1620		1/	ΛI	)	X	ŝ	KL								$\uparrow$	-
ELCI	AFMBL30-1	BL 30	4/22/16	1623		N)	Ň	 ]	X	Ś-	κ L									
FLCJ	A EMB2 11-1	RL II	4)22/16	1629		<u>k)</u>	$\frac{1}{1}$	)	Ϋ́	5	LL								-	
Field Comments:			1 1/-01-0	Lab Com	ments:	<u> </u>	<u>1 1v</u>	 	·				ł	Sam	nple Sh	nipmer	nt and [	Delivery	Detai	ils
					The Temp Liber Nu Fed Ex				Numt	Number of coolers in shipment:										
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(1) **AA** Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water (2) **Sample Type: AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, ME=Methanol, SB=sodium bisulfate, ST=Sodium Thiosulfate If NO preservative added leave blank



5/2/2016 Mr. Mike Dryden Earth Toxics, Inc. 206 Quail Way

Logan UT 84321

Project Name: Site Investigation Project #: 0888817816 Workorder #: 1604561

Dear Mr. Mike Dryden

The following report includes the data for the above referenced project for sample(s) received on 4/27/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-11A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Kga Vych

Kyle Vagadori Project Manager

A Eurofins Lancaster Laboratories Company

180 Blue Ravine Road, Suite B Folsom, CA 95630



#### WORK ORDER #: 1604561

#### Work Order Summary

CLIENT:	Mr. Mike Dryden	BILL TO:	Mr. Mike Dryden
	Earth Toxics, Inc.		Earth Toxics, Inc.
	206 Quail Way		206 Quail Way
	Logan, UT 84321		Logan, UT 84321
PHONE:	925-513-1270	P.O. #	
FAX:		PROJECT #	0888817816 Site Investigation
DATE RECEIVED:	04/27/2016	CONTACT	Kula Vagadori
DATE COMPLETED:	05/02/2016	contact.	Kyle v agauon

FRACTION #	NAME	<u>TEST</u>
01A	AV32IAFMMP-1	Modified TO-11A
02A	AV32IAFMM01-1	Modified TO-11A
03A	AV32IAFMM02-1	Modified TO-11A
04A	AV32IAFMBLK	Modified TO-11A
05A	ELCIAFMBL29-1	Modified TO-11A
06A	ELCIAFMBL30-1	Modified TO-11A
07A	ELCIAFMBL11-1	Modified TO-11A
08A	ELCIAFMBL5-1	Modified TO-11A
09A	ELCIAFMBL2-1	Modified TO-11A
10A	ELCIAFMBL4-1	Modified TO-11A
11A	ELCIAFMBL8-1	Modified TO-11A
12A	ELCIAFMBL3107-1	Modified TO-11A
13A	ELCIAFMBL1-1	Modified TO-11A
14A	ELCIAFMBL1-COM	Modified TO-11A
15A	AV29IAFMST-1	Modified TO-11A
16A	AV29IAFMFT-1	Modified TO-11A
17A	Lab Blank	Modified TO-11A
18A	LCS	Modified TO-11A
18AA	LCSD	Modified TO-11A

CERTIFIED BY:

lau

DATE: 05/02/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

> This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc. 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

#### LABORATORY NARRATIVE Modified TO-11A Earth Toxics, Inc. Workorder# 1604561

Sixteen TO-11 Cartridge samples were received on April 27, 2016. The laboratory performed analysis via modified Method TO-11A using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. The method involves eluting the sorbent tubes with acetonitrile using a gravity feed technique. Method modifications taken to run these samples include:

Requirement	TO-11A	ATL Modifications
ACN Purity Check	Contribution of analytes from ACN determined as described Sections 9.1.1 and 9.1.2 of Compendium TO-11A.	Total contribution of analytes from ACN and cartridge combined is determined.
Initial Calibration Curve (ICAL)	Multi-point using linear regression performed every 6 months; $r^2 > 0.999$	Multi-point using average Response Factor; % RSD = 10 %. Re-calibration if daily cal. fails, major maintenance, or column change. Linear regression is performed when requested.</td
Blank Subtraction	Average blank concentrations calculated. Blank value subtracted from sample result.	One Lab Blank is analyzed per batch; no blank subtraction performed on samples.

#### **Receiving Notes**

🛟 eurofins

The Chain of Custody (COC) information for sample ELCIAFMBL1-1 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

#### **Analytical Notes**

Sampling volume was supplied by the client. A sample volume of 723 L was used to report sample AV32IAFMBLK and the Laboratory Blank.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Media for this analysis was certified at the Reporting Limit. Concentrations that are below the level at which the media was certified may be false positives.

#### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.



M - Reported value may be biased due to apparent matrix interferences.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds AMBIENT AIR: EPA METHOD TO-11A HPLC

#### Client Sample ID: AV32IAFMMP-1

Lab ID#: 1604561-01A	
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Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	3.2	5.5
Client Sample ID: AV32IAFMM01-1				
Lab ID#: 1604561-02A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.069	4.3	5.9
Client Sample ID: AV32IAFMM02-1				
Lab ID#: 1604561-03A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	6.5	11
Client Sample ID: AV32IAFMBLK				
Lab ID#: 1604561-04A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.069	0.023 J	0.032 J
Client Sample ID: ELCIAFMBL29-1				
Lab ID#: 1604561-05A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	6.6	11
Client Sample ID: ELCIAFMBL30-1				
Lab ID#: 1604561-06A				
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	4.3	7.5



# Summary of Detected Compounds AMBIENT AIR: EPA METHOD TO-11A HPLC

#### Client Sample ID: ELCIAFMBL11-1

Rpt. Limit	Rpt. Limit	Amount	Amount
(ug)	(ug/m3)	(ug)	(ug/m3)
0.050	0.087	3.5	6.1
Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
0.050	0.087	3.5	6.1
Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
0.050	0.087	2.7	4.7
Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
0.050	0.087	2.9	5.1
Rpt. Limit	Rpt. Limit	Amount	Amount
(ug)	(ug/m3)	(ug)	(ug/m3)
	Rpt. Limit (ug)           0.050           Rpt. Limit (ug)           0.050           Rpt. Limit (ug)           0.050           Rpt. Limit (ug)           0.050           Rpt. Limit (ug)           0.050	Rpt. Limit (ug)Rpt. Limit (ug/m3)0.0500.087Rpt. Limit (ug)Rpt. Limit (ug/m3)0.0500.087Rpt. Limit (ug)Rpt. Limit (ug/m3)0.0500.087Rpt. Limit (ug)0.087Rpt. Limit (ug)0.087Rpt. Limit (ug)0.087Rpt. Limit (ug)0.087Rpt. Limit (ug)0.087	Rpt. Limit (ug)Rpt. Limit (ug)Amount (ug)0.0500.0873.5Rpt. Limit (ug)Rpt. Limit (ug/m3)Amount (ug)0.0500.0873.5Rpt. Limit (ug)Rpt. Limit (ug/m3)Amount (ug)0.0500.0872.7Rpt. Limit (ug)Rpt. Limit (ug/m3)Amount (ug)0.0500.0872.7Rpt. Limit (ug)Rpt. Limit (ug/m3)Amount (ug)0.0500.0872.9

#### Client Sample ID: ELCIAFMBL3107-1

Lab ID#: 1604561-12A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.087	3.3	5.6



# Summary of Detected Compounds AMBIENT AIR: EPA METHOD TO-11A HPLC

#### Client Sample ID: ELCIAFMBL1-1

Lab ID#:	1604561-13A
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Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.5	4.3
Client Sample ID: ELCIAFMBL1-COM				
Lab ID#: 1604561-14A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	2.6	4.5
Client Sample ID: AV29IAFMST-1				
Lab ID#: 1604561-15A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.069	9.8	14
Client Sample ID: AV29IAFMFT-1				
Lab ID#: 1604561-16A				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	0.050	0.087	5.5	9.5



File Name:

#### **Air Toxics**

#### Client Sample ID: AV32IAFMMP-1 Lab ID#: 1604561-01A <u>AMBIENT AIR: EPA METHOD TO-11A HPLC</u> f0429064 Date of Collection: 4/22/16 3:19:00 PM 1.00 Date of Analysis: 4/30/16 10:58 AM

Dil. Factor:	1.00	Date of Analysis: 4/30/16 10:58 AM Date of Extraction: 4/29/16			
	Rpt. Limit	Rpt. Limit	Amount	Amount	
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)	
Formaldehyde	0.050	0.087	3.2	5.5	



### Client Sample ID: AV32IAFMM01-1 Lab ID#: 1604561-02A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429065 1.00	Date of Collection: 4/23/16 6:36:00 AM Date of Analysis: 4/30/16 11:24 AM Date of Extraction: 4/29/16			
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)	
Formaldehyde	0.050	0.069	4.3	5.9	



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# **Air Toxics**

#### Client Sample ID: AV32IAFMM02-1 Lab ID#: 1604561-03A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429066 1.00	Date of Collection: 4/22/16 3:26:00 PM Date of Analysis: 4/30/16 11:50 AM Date of Extraction: 4/29/16		
Compound	Rpt. Limit (ug)	Rpt. LimitAmountAmount(ug/m3)(ug)(ug/m3)		
Formaldehyde	0.050	0.087	6.5	11

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# Client Sample ID: AV32IAFMBLK Lab ID#: 1604561-04A <u>AMBIENT AIR: EPA METHOD TO-11A HPLC</u> f0429063 Date of Collection: 4/22/16 3:30:00 PM

File Name: Dil. Factor:	f0429063 1.00	Date of Collection: 4/22/16 3:30:00 PM Date of Analysis: 4/30/16 10:32 AM		
		Date of Extraction: 4/29/16		
	Rpt. Limit	Rpt. Limit Amount Amount		
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.069	0.023 J	0.032 J

Air Sample Volume(L): 723 J = Estimated value. Container Type: TO-11 Cartridge



# **Air Toxics**

#### Client Sample ID: ELCIAFMBL29-1 Lab ID#: 1604561-05A <u>AMBIENT AIR: EPA METHOD TO-11A HPLC</u> f0429067 Date of Collection

File Name:	f0429067	Date of Collection: 4/22/16 4:20:00 PM			
Dil. Factor:	1.00	Date of Analysis: 4/30/16 12:16 PM			
		Date of Extraction: 4/29/16			
	Rpt. Limit	Rpt. Limit	Amount	Amount	
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)	
Formaldehyde	0.050	0.087	6.6	11	



### Client Sample ID: ELCIAFMBL30-1 Lab ID#: 1604561-06A <u>AMBIENT AIR: EPA METHOD TO-11A HPLC</u> f0429068 Date of Collection: 4/22/16 4:23:00 PM

File Name: Dil. Factor:	f0429068 1.00	Date of Collection: 4/22/16 4:23:00 PM Date of Analysis: 4/30/16 12:42 PM			
		Date of Extraction: 4/29/16           Rpt. Limit         Amount         Amount			
	Rpt. Limit				
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)	
Formaldehyde	0.050	0.087	4.3	7.5	



# **Air Toxics**

# Client Sample ID: ELCIAFMBL11-1 Lab ID#: 1604561-07A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name:	f0429069	Date of Collection: 4/22/16 4:29:00 PM			
Dil. Factor:	1.00	Date of Analysis: 4/30/16 01:08 PM			
		Date of Extraction: 4/29/16			
	Rpt. Limit	Rpt. Limit Amount Amount			
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)	
Formaldehyde	0.050	0.087	3.5	6.1	



#### **Client Sample ID: ELCIAFMBL5-1** Lab ID#: 1604561-08A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/22/16 4:34:00 PM f0429070 Dil. Factor: Date of Analysis: 4/30/16 01:34 PM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug)

0.087

3.5

6.1

0.050

Air Sample Volume(L): 576

Formaldehyde

Container Type: TO-11 Cartridge



#### **Client Sample ID: ELCIAFMBL2-1** Lab ID#: 1604561-09A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/22/16 4:39:00 PM f0429071 Dil. Factor: Date of Analysis: 4/30/16 02:00 PM 1.00 Date of Extraction: 4/29/16 **Rpt.** Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug) (ug/m3) (ug) Formaldehyde 0.050 0.087 2.7 4.7



#### Client Sample ID: ELCIAFMBL4-1 Lab ID#: 1604561-10A <u>AMBIENT AIR: EPA METHOD TO-11A HPLC</u> File Name: f0429072 Date of Collection: 4/22/16 4:44:00 PM Dil. Factor: 1.00 Date of Analysis: 4/30/16 02:26 PM Date of Extraction: 4/29/16

		Date of Extraction: 4/29/16				
Compound	Rpt. Limit	Rpt. Limit	Amount	Amount		
	(ug)	(ug/iiio)	(ug)	(ug/iiio)		
Formaldehyde	0.050	0.087	2.9	5.1		



# Client Sample ID: ELCIAFMBL8-1 Lab ID#: 1604561-11A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: f0429075 Date of Collection: 4/22/16 4:50:00 PM Dil. Factor: 1.00 Date of Analysis: 4/30/16 03:43 PM Date of Extraction: 4/29/16

		Date of Extraction: 4/29/16				
Compound	Rpt. Limit	Rpt. Limit	Amount	Amount		
Compound	(ug)	(ug/iii3)	(ug)	(ug/m3)		
Formaldehyde	0.050	0.087	4.5	7.9		



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# **Air Toxics**

#### Client Sample ID: ELCIAFMBL3107-1 Lab ID#: 1604561-12A AMBIENT AIR: EPA METHOD TO-11A HPLC

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File Name: Dil. Factor:	f0429076 1.00	Date of Collection: 4/22/16 4:55:00 PM Date of Analysis: 4/30/16 04:09 PM		
Compound	Rpt. Limit (ug)	Rpt. LimitAmountAmount(ug/m3)(ug)(ug/m3)		
Formaldehyde	0.050	0.087	3.3	5.6



#### **Client Sample ID: ELCIAFMBL1-1** Lab ID#: 1604561-13A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: Date of Collection: 4/22/16 5:02:00 PM f0429077 Dil. Factor: Date of Analysis: 4/30/16 04:35 PM 1.00 Date of Extraction: 4/29/16 Rpt. Limit **Rpt.** Limit Amount Compound (ug) (ug/m3) (ug)

0.087

2.5

0.050

Amount

(ug/m3)

4.3

Formaldehyde



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# **Air Toxics**

#### Client Sample ID: ELCIAFMBL1-COM Lab ID#: 1604561-14A AMBIENT AIR: EPA METHOD TO-11A HPLC

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File Name: Dil. Factor:	f0429078 1.00	Date Date	e of Collection: 4/2 e of Analysis: 4/30/	2/16 5:07:00 PM 16 05:01 PM					
		Date	Date of Extraction: 4/29/16						
	Rpt. Limit	Rpt. Limit	Amount	Amount					
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)					
Formaldehyde	0.050	0.087	2.6	4.5					



# **Air Toxics**

#### Client Sample ID: AV29IAFMST-1 Lab ID#: 1604561-15A <u>AMBIENT AIR: EPA METHOD TO-11A HPLC</u> f0429079 Date of Collection:

File Name:	f0429079	Date	e of Collection: 4/2	3/16 6:28:00 AM
Dil. Factor:	1.00	Date	of Analysis: 4/30/	16 05:27 PM
		Date	e of Extraction: 4/2	9/16
	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Formaldehyde	0.050	0.069	9.8	14



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# **Air Toxics**

# Client Sample ID: AV29IAFMFT-1 Lab ID#: 1604561-16A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429080 1.00	Date Date	e of Collection: 4/22 e of Analysis: 4/30/	2/16 5:51:00 PM 16 05:53 PM			
		Date of Extraction: 4/29/16					
	Rpt. Limit	Rpt. Limit	Amount	Amount			
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)			
Formaldehyde	0.050	0.087	5.5	9.5			



### Client Sample ID: Lab Blank Lab ID#: 1604561-17A AMBIENT AIR: EPA METHOD TO-11A HPLC File Name: f0429057a Date of Collection: NA Dil. Factor: 1.00 Date of Analysis: 4/30/16 07:56 AM

		Date	of Extraction: 4/2	9/16
Compound	Rpt. Limit	Rpt. Limit	Amount (ug)	Amount (ug/m3)
Cempedila	(49)	(ug/iiis)	(49)	(ug/iiio)
Formaldehyde	0.050	0.069	0.021 J	0.029 J

Air Sample Volume(L): 723 J = Estimated value.

Container Type: NA - Not Applicable



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# Air Toxics

#### Client Sample ID: LCS Lab ID#: 1604561-18A AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429055 1.00	Date of Collec Date of Analy Date of Extrac	ction: NA sis:  4/30/16 07:04 AM ction:  4/29/16
Compound		%Recovery	Method Limits
Formaldehyde		90	85-115

Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable



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# Air Toxics

#### Client Sample ID: LCSD Lab ID#: 1604561-18AA AMBIENT AIR: EPA METHOD TO-11A HPLC

File Name: Dil. Factor:	f0429056 1.00	Date of Collect Date of Analys	ion: NA is:  4/30/16 07:30 AM
		Date of Extract	tion: 4/29/16
			Method
Compound		%Recovery	Limits
Formaldehyde		94	85-115

Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Airbill No: 04/26/2016		W Solid, IDS=		IDW Concrete	GS=Soil gas. IC=	) drain sediment,	. CK=Caulk. DS=Stom	ir quality control. ASB=Ashestos	A-Ambient air, AO=A
$ \begin{array}{c ccccc} \mbox{Location ID} & \mbox{Date} & \mbox{Time} & \mbox{Ham} & \mbox{Sumple} & \mbox{Ham} & Ha$	onipro accasteron inc. <u>(1</u> .10.	512010 345	THO I	FATI	worth	Mindain (		SIZLIC N	CHI Color pro 140	
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Image: Matrix semple field     Time field     Matrix semple field		576 2	~ X	$\geq$	N	1559	4/21/16	22A	A FM 22.4-1	120 /h
Location ID Date Time Matrix Sample Field of (sys_loc_code) (mm/dd/yy) (hhmm) (1) (2) (Y/N) To tal No. of So. M. of		576 ]	X	N	N	1601	4/21/16	23 A	A FM 23A-1	3×1 C27
	Extra Volume ·	Sample Unit	Total No. of Co Fur mald	Field Filtered (Y/N)	ix Sample e Type ) (2)	Time Matr (Military) Cod (hhmm) (1	Date (mm/dd/yy)	Location ID (sys_loc_code)	de)	b ID Sample ID (sys_samp_co
Turnaround Time(specify): 7 days intainers	for MS/	Volu	ehy J		day 5	pecify): 7	naround Time(s	Tur	Toxics	Name: Air
blie Thomes/(615)255-9300 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MSD	me	; Le				5-9300	5/(615)25	Robbie Thomas	npler/Site Phone#
DNO.JMB5 RCTask Order Manager: Paul Stoddard (3)+ (3)+			3)→		a	1 Stoddar	Manager: Pau	RC Task Order	CTO NO.JM B.5	DNSULTANTS
Project No: Proje	ין און אין אין אין אין אין אין אין אין איז	Analysis Regimented (a	PO No. Sample				tion	- Cuha	Site Location: GTM 0	ESOLUTION
CHAIN OF CUSIODY AND ANALYTICAL REQUEST RECORD COC No. Page 2 of 3	2 93	Page	COC No.	_	CORD	<b>LEQUEST RE</b>	VALYTICAL F	USIODY AND A		

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ect No:の そぶみの / フを ted (Enter number of Conter number of Conte	<ul> <li>SC=Cement/Concrete, SE=Sediment, SL=Sludge, SO=Soil, SQ=Soil/Soild quality control, SSD=Subsurface sediment, SU=Surface soil (&lt;6 in), SW=Swab or wipe, Ta=Aninal tissue WG=Ground water, WL=Leachate, WO=Ocean water, WP=Drinking water, WQ=Water quality control, MR=Ground water effluent, WS=Surface water, WU=Storm water, WW=(2) Sample Type: AB=Ambient Bik, EB=Equipment Bik, FB=Field Bik, FD=Field Duplicate Sample, IDW=Investigative-Derived Waste, MIS=Incremental Sampling Methodology, N</li> <li>(3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, ME=Methanol, SB=sodium bisulfate, ST=Sodium Thiosulfate If NO pr</li> </ul>	3 State to the second second the	2 24 olas 50 alas 50 alas 1/25/16 0945 2 collar olas 5000	1 Nolley Unonne 4/23/16 0/10 1 10 - 4/23/16 67/10	Relinquished by (signature) Date Time Received by (signature) Date Time	C & North Tento	Lab Comments:		16a AVZ9IAFMFT-1 FT 9/22/16 INSI NNN 1X S772	15~ AV 297APM ST-1 ST 4/28/16 0628 N N 1 X 723 L	LELCIAFMBLK BLK Vizalio W NIX C	143 ELCJAFMBLI-COM BLI 4/22/16/1707 N/N/1X 576 L	13a ELCJAPMBLI-I BLI UIZIII ITOZ NNIXISTOLL	122 ELCJAFMBL3107-1 BL3 4/22116 1655 NNN 1X 576 2	11 A ELCIAFMBLE -1 BLE 4/22/16 1650 NN 1X STEL	10x ELCIAFMBL4-1 BL4 4/22/16/1644 N/N/1 X 576/2	093 ELCIAFMB12-1 BLZ 9/22/16/1639 NW11X SB62	08~ ELCIAFMBLS-1 BLS 4/20/6 1634 1 N W 1 X 576 L	Lab ID       Sample ID       Location ID       Date       Time       Matrix       Sample       Field       6       2         (sys_samp_code)       (sys_loc_code)       (mm/dd/yy)       (nhmm)       (1)       (2)       (Y/N)       5	Lab Name: Air TOXics Turnaround Time(specify): 7 days interest	sampler/site Phone# Robbie Thomas/ (615) 255-9300 , 2 y	<b>CONSULTANTS</b> CTO NO. $\text{TM}BS$ RC Task Order Manager: $P_{A,U} = \int \frac{1}{2}	RESOLUTION Site Location: GT MD, C.Aba Sample Analysis Request	Project Name: Side Investigation PONO. Proj	
	or wipe, TA=Animai tissue, TP=Plant tissue, TQ=Tis wU=Storm water, WW=Waste water al Sampling Methodology, N=Normal Environmental S dium Thiosulfate If NO preservative added leave I	22/11a OGUO Date Shipped	125 2016 0045 Airbill No:	13/16 6710	Date Time Samples Icec	Fed Ex	Indy Seal Inter C		577 2	723 2		576 1	576 2	576 2	576 L	576 2	536 2	576 2	Sample L Unit	<sup>)</sup> oly/	m.e		le Analysis Requested (Enter number of	Project No:0 %ጄሜያ/ 7ፂ/ሪ	ן ישי ט יין

# Attachment A — Field Monitoring Results NS GITMO

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Field Assessor	Building/Room No.	Sample Date	Pump Brand	Pump #	Sample ID	Start	Stop	Sample Length (min.)	Pre-Cal	Post-Cal	Flow Rate (I/m)	Volume (I)
RT/AO	CZ/ZIAB	4/21/16	GilAirs	BGPU-003	CZIAFM278-1	0742	1550	488	1,2	1,2	0.00	0.0
RT/AO	62/28B	4/21116	GILAIRS	PGS88	62 TA FM2 8B-7	0748	1548	480	1.2	1,2	0.00	0.0
								0			0.00	0.0
KT/AU	22/35A	4/2//10	611415 5	70476	CZJAPM35A-1	0751	1551	480	1,2	1.2		
RT/AO	CZ/36A	4/21/16	G11415 3	P6578	CZJAFM36A-1	0753	1553	480	1.2	1.2		
Q+110	(7)1/18A	11/21/10	Andreh CZ	P150 p	COTATMERA	A721	1531	186	1.7	12		
K I/AV		9/2//10	Airenaen 54	12300	LZJAFA 48H=1	0151	10.01	900	1,2	1.		
RTIAO	CZ/47A	4/21/16	Airchark 52	8889	CZJAFM47A-1	07.33	1533	480	1.2	1.2		
RT /AO	CZ144A	4/21/16	Aischeck SZ	P1065	CZJAFM 44A-1	0736	1536	480	112	1.2		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1 martin A		-75					
K1/40	CZ/ 43A	4/2//18	GILAIS	45GPU-005	-214 TM \$34-1	0738	1338	480	1,2	116		
RT/AO	CZ/ 4A	4/21/16	GilAIr3	R6275	CZJAFM4A-1	0810	1610	480	1.2	1.2		
PTIAO	CALEA	4/21/16	GJ AIN 3	BPC122	CZ7AFM5A-1	6813	1613	480	1.2	1.2		
	<u>CE/SR</u>		Gran			001.5	101.1		1,6	*, 5		
RT/AO	CZ/ 10B	4/21116	Gildir3	P6154	CZJAFMBB-1	0816	1616	480	1.2	1.2		
RTIAO	CZ/IIB	4/21/16	GILAI-3	PG096	CZJAFM11B-1	0820	1620	480	1,2	1,2		
0-110	(31370	412111		01 000	(3 N A FAA930-1	0 24 1		1:0-		1.3		
KI/AU	CZI LOH	1/2///6	GILAIF	P# 557	CAJA FMZSH-1	0001	1601	480	1,2	1.2		
RTIAO	CZ/2ZA	4/21/16	GilAir 3	P6722	CZJAFM22A-1	0759	1559	480	1,2	1,2	0.00	0.0
ETIAO	67/17A	4/21/16	GILAIT 3	06283	CZTAFM1741	0804	1604	0	15	12	0.00	0.0
							5	0		110	0.00	0.0
RT /AD	CZ/ 16 H	4/2/16	Gil Air 3	P6494	GZJA FM 16 AI	0867	40016	<u>6(</u> 0	1,2	1,05	0.00	0.0
RT/AO	CZ/ BLK	4/21/16			CZIA FM BLK.		1628	0	Ø —		0.00	0.0
								0			0.00	0.0
						· · · · · · · · · · · · · · · · · · ·		0			0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
			L				L				0.00	0.0
	Sampling Equipments											
	sampning Equipment:											
	Analytical Laboratory:											
	Exposure Limits:											
## Attachment A — Field Monitoring Results NS GITMO

											a de la composición de la comp	14.4
								Sample Length			Flow Rate	Volume
Field Assessor	Building/Room No.	Sample Date	Pump Brand	Pump #	Sample ID	Start	Stop	(min.)	Pre-Cal	Post-Cal	(l/m)	(I)
21/0	40-32/ MMP_	4/22/16	GILAIS	BG14-003	AUSE TAFMMP-1	0719	13/9	480	1.2	1. <	0.00	0.0
oTLAN	141,32/MOI	4/22/14	Gil AIR 3	P6494	AV32 JAFM MOL-1	0723		Pumpfailure	1,2		0.00	0.0
		+ + + + + + + + + + + + + + + + + + + +		80.97	Aumstein	0.000	1570	0	1.2	12	0.00	0.0
PTIAD	AV-52/102	4/22/16	GIAIR ->	16203	1405214+111024	0-126	1306	48.0	112	116		
BILAU	AU32/Blank	4/22/16	~		AV3ZJAFABLK		1\$30	~				
OT/AD	F26/ B10 29	4122/16	Airchuck S	PIOG7	ELC JAFMBLZYN	0820	16:20	480	1,2	1.2		
- LUAV		11. 1. 1. 1. 1.		Richm	ELC TAFA BIRD	AV0 7	11.73	470	17	1.2		
RIAO	EEC/ BL-30	4/22/16	Aircheck 52	P1500	ELC. JATHOLSUA	0023	row	-780	1.2	112		
27/20	ELCIBL-11	4/22/16	GilAir 3	P6559	ELCJA FMBLII-1	0829	1629	480	1.2	1.2		
27/AU	ELC/BL-5	4/22/16	Gil Air 3	PG 72 2	ELCYAFMBLS-)	0834	1634	480	1,2	1.2		
65 12 0	EICIBI . 2	11/22/11	611403	PEDAC	FLUT FMBID-1	0739	1639	480	1.2	1.2		
RI/AU	CHIBE E	4/22/10	OTAT	10010	Z ATTOLET							
RT/AO	ELC/BL-4	4/22/16	Gildir 3	P6578	ELCIAPMBL4-1	0844	1644	480	1.2	1,2		
FILAO	ELCI BL-8	4/22/16	Gil Aif 3	PGS88	ELCIAFMB28-1	0850	1650	480	1.2	1.2		
- AD-	FLC BL	4/22/16	Gil Air 3	86476	FICTAFMBI3107-1	0855	1655	480	1.2	1.2		
Fuite	ECORDES TO T	11227.2		D.C.	SIGTAT UP II		1.7 . 7	10				
RT/AD	ELC/BUNCK	4/22/16	GITAITS	P6/22	ELCJAFMDLI-1	0902	1102	480	1.6	1:5		
8-1/A0	ELCIBL-1 COM	4/22/16	Cil Ar3	P6275	ELCJAFMBLI-CON	0907	1707	0	1.2	1,2	0.00	0.0
Rathn	A11-29 / Sal Tente	4127/16	CHAR	8684-001	AU29+ACAST-1	0945	+745-	I MOD	WHI 2	Pump For live	0.00	0.0
CITA V	FIV ET / JOFF / WO	1100110	Griffe	Deret COT				0			0.00	0.0
Rt/AO	AV-29 / Fam, logile;	4/22/16	GILAIS 3	PGIS4	AUZ9_IAFNFIT-1	0950	17501	48	1,2	1.2	0.00	0.0
RT/AD	AV-24/Sat Trailer	4/23/16,	GilAir 3	PGISY	AUZQETAFMST-1	1825	0628	Ø 723	1.2	<i>i</i> , 2	0.00	868 0.0
	The set of the set	inali	A 14:13	PCorto	AUDOTA FIAMALI	1823	ALar	0	1.2	12	0.00	0.0
KIAO	AV-24 34/110/	9123/16	GIAID	162()	40 get 4 - 418-101-1	1622	0636	0		1.5	0.00	0.0
								0			0.00	0.0
								0			0.00	0.0
	1				·····	•						
Sampling Equipment:												
	Samping Equipment.											
Analytical Laboratory:												
	Exposure Limits:											