APPENDIX B: LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

This appendix contains the sample chain-of-custody forms and laboratory data packages from Air Toxics Ltd., Folsom, California.

0506112

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
SCOTT BREHMER	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL SVE	SPL VE03	4-73803	919-985-1000	919-985-1070	TONY FORD

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
MARCO MENDOZA	619-843-9968	626-296-0200	180 BLUE RAVINE RD. STE B	22632 GOLDEN SPRINGS DR. SUITE 270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR.	PASADENA, CA	BATTELLE	FOLSOM, CA 95630	DIAMOND BAR, CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
TONY FORD	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14							Comments
01A	VE03-A-001-001	AIR	6/3/05	1315	NONE	1*	III	NORM	X							1* → 1L TEDLAR BAG SCREEN A
02A	VE03-B-001-002	↓	↓	1317	↓	↓	↓	↓	X							SCREEN B
03A	VE03-INN-001-003	↓	↓	1319	↓	↓	↓	↓	X							SCREEN INFLUENT
04A	VE03-EFF-001-004	↓	↓	1321	↓	↓	↓	↓	X							SCREEN EFFLUENT
5																
6																
7																
8																
9																
10																

CUSTODY SEAL INTACT?
Y N NONE TEMP ✓

SAMPLES COLLECTED BY: M. MENDOZA	COURIER AND AIR BILL NUMBER: FED-EX 8473 5404 3446			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	Judy Su ATL	6/4/05	837	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

FedEX 8473 5404 3446

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific
E-mail to:samplereceiving@airtoxics.com

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0506112

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	06/04/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	06/12/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-A-001-001	Modified TO-14A	Tedlar Bag
02A	VE03-B-001-002	Modified TO-14A	Tedlar Bag
03A	VE03-INN-001-003	Modified TO-14A	Tedlar Bag
04A	VE03-EFF-001-004	Modified TO-14A	Tedlar Bag
05A	Lab Blank	Modified TO-14A	NA
06A	CCV	Modified TO-14A	NA
07A	LCS	Modified TO-14A	NA
08A	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 06/13/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. 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 Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0506112

Four 1 Liter Tedlar Bag samples were received on June 04, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Samples VE03-A-001-001, VE03-B-001-002, VE03-INN-001-003 and VE03-EFF-001-004 were analyzed past a 3 day hold time. The client was notified and permission given to proceed with analysis and reporting.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-A-001-001

Lab ID#: 0506112-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	2.0	21	5.3	55
Freon 11	2.0	2.1	11	12
Ethanol	8.0	67	15	130
Acetone	8.0	960 E	19	2300 E
2-Propanol	8.0	140	20	350
Carbon Disulfide	2.0	5.9	6.2	18
Methylene Chloride	2.0	5.1	6.9	18
1,1-Dichloroethane	2.0	2.0	8.1	8.3
2-Butanone (Methyl Ethyl Ketone)	2.0	600	5.9	1800
Tetrahydrofuran	2.0	20	5.9	58
1,2-Dichloroethane	2.0	2.0	8.1	8.3
Heptane	2.0	5.3	8.2	22
4-Methyl-2-pentanone	2.0	17	8.2	69
2-Hexanone	8.0	23	33	96

Client Sample ID: VE03-B-001-002

Lab ID#: 0506112-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	16	49	33	100
Vinyl Chloride	4.0	20	10	50
Chloroethane	4.0	230	10	600
Freon 11	4.0	38	22	220
Ethanol	16	340	30	640
Acetone	16	8200 E	38	19000 E
2-Propanol	16	1200	39	2800
Carbon Disulfide	4.0	6.8	12	21
Methylene Chloride	4.0	27	14	93
Hexane	4.0	17	14	61
1,1-Dichloroethane	4.0	12	16	50
2-Butanone (Methyl Ethyl Ketone)	4.0	2700 E	12	7900 E
Tetrahydrofuran	4.0	66	12	200
Carbon Tetrachloride	4.0	17	25	110
1,2-Dichloroethane	4.0	4.7	16	19
Heptane	4.0	6.9	16	28
Trichloroethene	4.0	8.0	21	43
4-Methyl-2-pentanone	4.0	65	16	270
2-Hexanone	16	45	66	180

Client Sample ID: VE03-INN-001-003

Lab ID#: 0506112-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	10	16	21	33
Vinyl Chloride	2.5	2.5	6.4	6.5
Chloroethane	2.5	51	6.6	140
Freon 11	2.5	12	14	67
Ethanol	10	41	19	77
Acetone	10	880	24	2100
2-Propanol	10	140	24	350
Carbon Disulfide	2.5	5.6	7.8	17
Methylene Chloride	2.5	7.2	8.7	25
1,1-Dichloroethane	2.5	3.0	10	12
2-Butanone (Methyl Ethyl Ketone)	2.5	380	7.4	1100
Tetrahydrofuran	2.5	23	7.4	67
Carbon Tetrachloride	2.5	5.5	16	35
Trichloroethene	2.5	3.3	13	18
4-Methyl-2-pentanone	2.5	10	10	42
2-Hexanone	10	11	41	47

Client Sample ID: VE03-EFF-001-004

Lab ID#: 0506112-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	6.6	11	33	55
Chloromethane	27	29	55	60
Chloroethane	6.6	120	18	320
Freon 11	6.6	8.8	37	49
Ethanol	27	100	50	200
Freon 113	6.6	9.2	51	70
Acetone	27	2900 E	63	7000 E
2-Propanol	27	380	65	930
Carbon Disulfide	6.6	6.9	21	22
Methylene Chloride	6.6	28	23	96
1,1-Dichloroethane	6.6	12	27	50
2-Butanone (Methyl Ethyl Ketone)	6.6	1500	20	4600
Tetrahydrofuran	6.6	10	20	31
1,2-Dichloroethane	6.6	7.7	27	31
4-Methyl-2-pentanone	6.6	58	27	240
2-Hexanone	27	41	110	170

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Client Sample ID: VE03-A-001-001

Lab ID#: 0506112-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060707**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**6/7/05 05:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.0	Not Detected	9.9	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	2.0	21	5.3	55
Freon 11	2.0	2.1	11	12
Ethanol	8.0	67	15	130
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Acetone	8.0	960 E	19	2300 E
2-Propanol	8.0	140	20	350
Carbon Disulfide	2.0	5.9	6.2	18
3-Chloropropene	8.0	Not Detected	25	Not Detected
Methylene Chloride	2.0	5.1	6.9	18
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Hexane	2.0	Not Detected	7.0	Not Detected
1,1-Dichloroethane	2.0	2.0	8.1	8.3
2-Butanone (Methyl Ethyl Ketone)	2.0	600	5.9	1800
cis-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Tetrahydrofuran	2.0	20	5.9	58
Chloroform	2.0	Not Detected	9.8	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.9	Not Detected
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.3	Not Detected
Benzene	2.0	Not Detected	6.4	Not Detected
1,2-Dichloroethane	2.0	2.0	8.1	8.3
Heptane	2.0	5.3	8.2	22
Trichloroethene	2.0	Not Detected	11	Not Detected
1,2-Dichloropropane	2.0	Not Detected	9.2	Not Detected
1,4-Dioxane	8.0	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
4-Methyl-2-pentanone	2.0	17	8.2	69
Toluene	2.0	Not Detected	7.5	Not Detected
trans-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	14	Not Detected
2-Hexanone	8.0	23	33	96

AIR TOXICS LTD.

Client Sample ID: VE03-A-001-001

Lab ID#: 0506112-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060707**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**6/7/05 05:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.2	Not Detected
Ethyl Benzene	2.0	Not Detected	8.7	Not Detected
m,p-Xylene	2.0	Not Detected	8.7	Not Detected
o-Xylene	2.0	Not Detected	8.7	Not Detected
Styrene	2.0	Not Detected	8.5	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
Cumene	2.0	Not Detected	9.8	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.8	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.0	Not Detected	59	Not Detected
Hexachlorobutadiene	8.0	Not Detected	85	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-B-001-002

Lab ID#: 0506112-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060708**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**6/7/05 07:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	4.0	Not Detected	20	Not Detected
Freon 114	4.0	Not Detected	28	Not Detected
Chloromethane	16	49	33	100
Vinyl Chloride	4.0	20	10	50
1,3-Butadiene	4.0	Not Detected	8.8	Not Detected
Bromomethane	4.0	Not Detected	16	Not Detected
Chloroethane	4.0	230	10	600
Freon 11	4.0	38	22	220
Ethanol	16	340	30	640
Freon 113	4.0	Not Detected	31	Not Detected
1,1-Dichloroethene	4.0	Not Detected	16	Not Detected
Acetone	16	8200 E	38	19000 E
2-Propanol	16	1200	39	2800
Carbon Disulfide	4.0	6.8	12	21
3-Chloropropene	16	Not Detected	50	Not Detected
Methylene Chloride	4.0	27	14	93
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Hexane	4.0	17	14	61
1,1-Dichloroethane	4.0	12	16	50
2-Butanone (Methyl Ethyl Ketone)	4.0	2700 E	12	7900 E
cis-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Tetrahydrofuran	4.0	66	12	200
Chloroform	4.0	Not Detected	20	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected	22	Not Detected
Cyclohexane	4.0	Not Detected	14	Not Detected
Carbon Tetrachloride	4.0	17	25	110
2,2,4-Trimethylpentane	4.0	Not Detected	19	Not Detected
Benzene	4.0	Not Detected	13	Not Detected
1,2-Dichloroethane	4.0	4.7	16	19
Heptane	4.0	6.9	16	28
Trichloroethene	4.0	8.0	21	43
1,2-Dichloropropane	4.0	Not Detected	18	Not Detected
1,4-Dioxane	16	Not Detected	58	Not Detected
Bromodichloromethane	4.0	Not Detected	27	Not Detected
cis-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
4-Methyl-2-pentanone	4.0	65	16	270
Toluene	4.0	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected	22	Not Detected
Tetrachloroethene	4.0	Not Detected	27	Not Detected
2-Hexanone	16	45	66	180

AIR TOXICS LTD.

Client Sample ID: VE03-B-001-002

Lab ID#: 0506112-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060708**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**6/7/05 07:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	4.0	Not Detected	34	Not Detected
1,2-Dibromoethane (EDB)	4.0	Not Detected	31	Not Detected
Chlorobenzene	4.0	Not Detected	18	Not Detected
Ethyl Benzene	4.0	Not Detected	17	Not Detected
m,p-Xylene	4.0	Not Detected	17	Not Detected
o-Xylene	4.0	Not Detected	17	Not Detected
Styrene	4.0	Not Detected	17	Not Detected
Bromoform	4.0	Not Detected	41	Not Detected
Cumene	4.0	Not Detected	20	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected	27	Not Detected
Propylbenzene	4.0	Not Detected	20	Not Detected
4-Ethyltoluene	4.0	Not Detected	20	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,4-Dichlorobenzene	4.0	Not Detected	24	Not Detected
alpha-Chlorotoluene	4.0	Not Detected	21	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-INN-001-003

Lab ID#: 0506112-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060711**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**5.00**	**Date of Analysis:**	**6/7/05 09:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.5	Not Detected	12	Not Detected
Freon 114	2.5	Not Detected	17	Not Detected
Chloromethane	10	16	21	33
Vinyl Chloride	2.5	2.5	6.4	6.5
1,3-Butadiene	2.5	Not Detected	5.5	Not Detected
Bromomethane	2.5	Not Detected	9.7	Not Detected
Chloroethane	2.5	51	6.6	140
Freon 11	2.5	12	14	67
Ethanol	10	41	19	77
Freon 113	2.5	Not Detected	19	Not Detected
1,1-Dichloroethene	2.5	Not Detected	9.9	Not Detected
Acetone	10	880	24	2100
2-Propanol	10	140	24	350
Carbon Disulfide	2.5	5.6	7.8	17
3-Chloropropene	10	Not Detected	31	Not Detected
Methylene Chloride	2.5	7.2	8.7	25
Methyl tert-butyl ether	2.5	Not Detected	9.0	Not Detected
trans-1,2-Dichloroethene	2.5	Not Detected	9.9	Not Detected
Hexane	2.5	Not Detected	8.8	Not Detected
1,1-Dichloroethane	2.5	3.0	10	12
2-Butanone (Methyl Ethyl Ketone)	2.5	380	7.4	1100
cis-1,2-Dichloroethene	2.5	Not Detected	9.9	Not Detected
Tetrahydrofuran	2.5	23	7.4	67
Chloroform	2.5	Not Detected	12	Not Detected
1,1,1-Trichloroethane	2.5	Not Detected	14	Not Detected
Cyclohexane	2.5	Not Detected	8.6	Not Detected
Carbon Tetrachloride	2.5	5.5	16	35
2,2,4-Trimethylpentane	2.5	Not Detected	12	Not Detected
Benzene	2.5	Not Detected	8.0	Not Detected
1,2-Dichloroethane	2.5	Not Detected	10	Not Detected
Heptane	2.5	Not Detected	10	Not Detected
Trichloroethene	2.5	3.3	13	18
1,2-Dichloropropane	2.5	Not Detected	12	Not Detected
1,4-Dioxane	10	Not Detected	36	Not Detected
Bromodichloromethane	2.5	Not Detected	17	Not Detected
cis-1,3-Dichloropropene	2.5	Not Detected	11	Not Detected
4-Methyl-2-pentanone	2.5	10	10	42
Toluene	2.5	Not Detected	9.4	Not Detected
trans-1,3-Dichloropropene	2.5	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.5	Not Detected	14	Not Detected
Tetrachloroethene	2.5	Not Detected	17	Not Detected
2-Hexanone	10	11	41	47

AIR TOXICS LTD.

Client Sample ID: VE03-INN-001-003

Lab ID#: 0506112-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060711**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**5.00**	**Date of Analysis:**	**6/7/05 09:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.5	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	2.5	Not Detected	19	Not Detected
Chlorobenzene	2.5	Not Detected	12	Not Detected
Ethyl Benzene	2.5	Not Detected	11	Not Detected
m,p-Xylene	2.5	Not Detected	11	Not Detected
o-Xylene	2.5	Not Detected	11	Not Detected
Styrene	2.5	Not Detected	11	Not Detected
Bromoform	2.5	Not Detected	26	Not Detected
Cumene	2.5	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	2.5	Not Detected	17	Not Detected
Propylbenzene	2.5	Not Detected	12	Not Detected
4-Ethyltoluene	2.5	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	2.5	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	2.5	Not Detected	12	Not Detected
1,3-Dichlorobenzene	2.5	Not Detected	15	Not Detected
1,4-Dichlorobenzene	2.5	Not Detected	15	Not Detected
alpha-Chlorotoluene	2.5	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.5	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	74	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-001-004

Lab ID#: 0506112-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060712**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**13.3**	**Date of Analysis:**	**6/7/05 10:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	6.6	11	33	55
Freon 114	6.6	Not Detected	46	Not Detected
Chloromethane	27	29	55	60
Vinyl Chloride	6.6	Not Detected	17	Not Detected
1,3-Butadiene	6.6	Not Detected	15	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	6.6	120	18	320
Freon 11	6.6	8.8	37	49
Ethanol	27	100	50	200
Freon 113	6.6	9.2	51	70
1,1-Dichloroethene	6.6	Not Detected	26	Not Detected
Acetone	27	2900 E	63	7000 E
2-Propanol	27	380	65	930
Carbon Disulfide	6.6	6.9	21	22
3-Chloropropene	27	Not Detected	83	Not Detected
Methylene Chloride	6.6	28	23	96
Methyl tert-butyl ether	6.6	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Hexane	6.6	Not Detected	23	Not Detected
1,1-Dichloroethane	6.6	12	27	50
2-Butanone (Methyl Ethyl Ketone)	6.6	1500	20	4600
cis-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Tetrahydrofuran	6.6	10	20	31
Chloroform	6.6	Not Detected	32	Not Detected
1,1,1-Trichloroethane	6.6	Not Detected	36	Not Detected
Cyclohexane	6.6	Not Detected	23	Not Detected
Carbon Tetrachloride	6.6	Not Detected	42	Not Detected
2,2,4-Trimethylpentane	6.6	Not Detected	31	Not Detected
Benzene	6.6	Not Detected	21	Not Detected
1,2-Dichloroethane	6.6	7.7	27	31
Heptane	6.6	Not Detected	27	Not Detected
Trichloroethene	6.6	Not Detected	36	Not Detected
1,2-Dichloropropane	6.6	Not Detected	31	Not Detected
1,4-Dioxane	27	Not Detected	96	Not Detected
Bromodichloromethane	6.6	Not Detected	44	Not Detected
cis-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
4-Methyl-2-pentanone	6.6	58	27	240
Toluene	6.6	Not Detected	25	Not Detected
trans-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
1,1,2-Trichloroethane	6.6	Not Detected	36	Not Detected
Tetrachloroethene	6.6	Not Detected	45	Not Detected
2-Hexanone	27	41	110	170

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-001-004

Lab ID#: 0506112-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060712**	**Date of Collection:**	**6/3/05**
Dil. Factor:	**13.3**	**Date of Analysis:**	**6/7/05 10:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	6.6	Not Detected	57	Not Detected
1,2-Dibromoethane (EDB)	6.6	Not Detected	51	Not Detected
Chlorobenzene	6.6	Not Detected	31	Not Detected
Ethyl Benzene	6.6	Not Detected	29	Not Detected
m,p-Xylene	6.6	Not Detected	29	Not Detected
o-Xylene	6.6	Not Detected	29	Not Detected
Styrene	6.6	Not Detected	28	Not Detected
Bromoform	6.6	Not Detected	69	Not Detected
Cumene	6.6	Not Detected	33	Not Detected
1,1,2,2-Tetrachloroethane	6.6	Not Detected	46	Not Detected
Propylbenzene	6.6	Not Detected	33	Not Detected
4-Ethyltoluene	6.6	Not Detected	33	Not Detected
1,3,5-Trimethylbenzene	6.6	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	6.6	Not Detected	33	Not Detected
1,3-Dichlorobenzene	6.6	Not Detected	40	Not Detected
1,4-Dichlorobenzene	6.6	Not Detected	40	Not Detected
alpha-Chlorotoluene	6.6	Not Detected	34	Not Detected
1,2-Dichlorobenzene	6.6	Not Detected	40	Not Detected
1,2,4-Trichlorobenzene	27	Not Detected	200	Not Detected
Hexachlorobutadiene	27	Not Detected	280	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506112-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 04:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506112-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 04:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506112-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 12:31 PM**	

Compound	%Recovery
Freon 12	96
Freon 114	101
Chloromethane	94
Vinyl Chloride	97
1,3-Butadiene	98
Bromomethane	100
Chloroethane	79
Freon 11	96
Ethanol	70
Freon 113	97
1,1-Dichloroethene	82
Acetone	82
2-Propanol	75
Carbon Disulfide	84
3-Chloropropene	84
Methylene Chloride	76
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	88
Hexane	75
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	86
Tetrahydrofuran	85
Chloroform	90
1,1,1-Trichloroethane	99
Cyclohexane	92
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	84
Benzene	85
1,2-Dichloroethane	88
Heptane	93
Trichloroethene	93
1,2-Dichloropropane	88
1,4-Dioxane	95
Bromodichloromethane	93
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	84
Toluene	92
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	90
Tetrachloroethene	93
2-Hexanone	83

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506112-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 12:31 PM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	96
Chlorobenzene	93
Ethyl Benzene	90
m,p-Xylene	92
o-Xylene	93
Styrene	83
Bromoform	95
Cumene	88
1,1,2,2-Tetrachloroethane	88
Propylbenzene	85
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506112-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 01:32 PM**	

Compound	%Recovery
Freon 12	89
Freon 114	93
Chloromethane	90
Vinyl Chloride	90
1,3-Butadiene	117
Bromomethane	97
Chloroethane	70
Freon 11	91
Ethanol	60
Freon 113	87
1,1-Dichloroethene	77
Acetone	80
2-Propanol	81
Carbon Disulfide	84
3-Chloropropene	98
Methylene Chloride	73
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	106
Hexane	78
1,1-Dichloroethane	74
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	90
Tetrahydrofuran	80
Chloroform	80
1,1,1-Trichloroethane	80
Cyclohexane	95
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	90
Benzene	74
1,2-Dichloroethane	75
Heptane	98
Trichloroethene	82
1,2-Dichloropropane	72
1,4-Dioxane	82
Bromodichloromethane	97
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	74
Toluene	86
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	80
Tetrachloroethene	84
2-Hexanone	61

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506112-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 01:32 PM**	

Compound	**%Recovery**
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	85
Chlorobenzene	86
Ethyl Benzene	83
m,p-Xylene	84
o-Xylene	84
Styrene	102
Bromoform	122
Cumene	90
1,1,2,2-Tetrachloroethane	78
Propylbenzene	127
4-Ethyltoluene	80
1,3,5-Trimethylbenzene	81
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	79
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	78
1,2-Dichlorobenzene	79
1,2,4-Trichlorobenzene	68 Q
Hexachlorobutadiene	75

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506112-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 02:26 PM**	

Compound	%Recovery
Freon 12	86
Freon 114	92
Chloromethane	88
Vinyl Chloride	86
1,3-Butadiene	116
Bromomethane	94
Chloroethane	69 Q
Freon 11	89
Ethanol	59 Q
Freon 113	85
1,1-Dichloroethene	76
Acetone	78
2-Propanol	80
Carbon Disulfide	84
3-Chloropropene	88
Methylene Chloride	71
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	103
Hexane	76
1,1-Dichloroethane	72
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	88
Tetrahydrofuran	79
Chloroform	78
1,1,1-Trichloroethane	78
Cyclohexane	92
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	88
Benzene	72
1,2-Dichloroethane	72
Heptane	96
Trichloroethene	79
1,2-Dichloropropane	70
1,4-Dioxane	79
Bromodichloromethane	93
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	72
Toluene	83
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	77
Tetrachloroethene	82
2-Hexanone	60

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506112-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/7/05 02:26 PM**	

Compound	**%Recovery**
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	83
Chlorobenzene	84
Ethyl Benzene	81
m,p-Xylene	82
o-Xylene	83
Styrene	99
Bromoform	120
Cumene	88
1,1,2,2-Tetrachloroethane	76
Propylbenzene	123
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	81
1,3-Dichlorobenzene	77
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	77
1,2,4-Trichlorobenzene	67 Q
Hexachlorobutadiene	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

0506152

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON CAB COORDINATOR: SCOTT BREMMER	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: AIR TOXICS	LABORATORY CONTACT: JENNIFER MILLER	MAIL REPORT TO (COMPANY NAME): GEOFON
PROJECT NAME: JPL SVE	PROJECT LOCATION: JPL VE03	PROJECT NUMBER: 4-73103	LABORATORY PHONE: 919-985-1000	LABORATORY FAX: 916-985-1070	RECIPIENT NAME: TONY FORD
PROJECT CONTACT: MARCO MENDOZA	PROJECT PHONE NUMBER: 619-843-9965	PROJECT FAX: 626-296-0200	LABORATORY ADDRESS: 180 BLUE RAVINE RD. STE R		ADDRESS: SUITE 270 22632 GOLDEN SPRINGS DR.
PROJECT ADDRESS: 4800 OAK GROVE DR.	CITY, STATE AND ZIPCODE: PASADENA, CA	CLIENT: BATTELLE	CITY, STATE AND ZIPCODE: FOLSOM, CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR, CA 91765
PROJECT MANAGER: TONY FORD	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14								Comments
01A	VE03-A-002-006	AIR	6/6/05	1240	NONE	1*	III	NORM	X								1* → 1 L TEDLAR BAG SCREEN A
02A	VE03-B-002-006	↓	↓	1242	↓	↓	↓	↓	X								SCREEN B
03A	VE03-INN-002-007			1244					X								SCREEN INFLUENT
04A	VE03-EFF-002-008			1246					X								SCREEN EFFLUENT
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: C. BOGDAN

COURIER AND AIR BILL NUMBER: FED-EX 8473 5404 3457

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	[signature] Amwalt Thomas QC	6/7/05	930

SAMPLES CONDITION UPON RECEIPT: CUSTODY SEAL INTACT? Y N (NONE) TEMP

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific
E-mail to:samplereceiving@airtoxics.com

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0506152

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	06/07/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	06/12/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-A-002-005	Modified TO-14A	Tedlar Bag
01AA	VE03-A-002-005 Duplicate	Modified TO-14A	Tedlar Bag
02A	VE03-B-002-006	Modified TO-14A	Tedlar Bag
03A	VE03-INN-002-007	Modified TO-14A	Tedlar Bag
04A	VE03-EFF-002-008	Modified TO-14A	Tedlar Bag
05A	Lab Blank	Modified TO-14A	NA
06A	CCV	Modified TO-14A	NA
07A	LCS	Modified TO-14A	NA
08A	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman DATE: 06/13/05

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0506152

Four 1 Liter Tedlar Bag samples were received on June 07, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-A-002-005

Lab ID#: 0506152-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.50	2.5	2.5
Chloroethane	0.50	6.6	1.3	18
Freon 11	0.50	4.5	2.8	25
Ethanol	2.0	17	3.8	31
Acetone	2.0	190	4.8	450
2-Propanol	2.0	35	4.9	86
Carbon Disulfide	0.50	3.5	1.6	11
Methylene Chloride	0.50	1.1	1.7	3.8
2-Butanone (Methyl Ethyl Ketone)	0.50	120	1.5	360
Tetrahydrofuran	0.50	1.2	1.5	3.4
Chloroform	0.50	0.91	2.4	4.4
Carbon Tetrachloride	0.50	0.53	3.1	3.3
Heptane	0.50	2.0	2.0	8.0
Trichloroethene	0.50	1.2	2.7	6.5
4-Methyl-2-pentanone	0.50	3.6	2.0	15
Toluene	0.50	1.0	1.9	3.9
Tetrachloroethene	0.50	0.74	3.4	5.0
2-Hexanone	2.0	9.4	8.2	38

Client Sample ID: VE03-A-002-005 Duplicate

Lab ID#: 0506152-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	0.50	7.0	1.3	18
Freon 11	0.50	4.5	2.8	25
Ethanol	2.0	18	3.8	35
Acetone	2.0	200 E	4.8	480 E
2-Propanol	2.0	38	4.9	93
Carbon Disulfide	0.50	3.7	1.6	12
Methylene Chloride	0.50	1.1	1.7	4.0
2-Butanone (Methyl Ethyl Ketone)	0.50	130	1.5	370
Tetrahydrofuran	0.50	1.4	1.5	4.0
Chloroform	0.50	0.99	2.4	4.8
Heptane	0.50	1.9	2.0	7.8
Trichloroethene	0.50	1.2	2.7	6.4
4-Methyl-2-pentanone	0.50	3.7	2.0	15
Toluene	0.50	0.98	1.9	3.7
Tetrachloroethene	0.50	0.71	3.4	4.8
2-Hexanone	2.0	9.7	8.2	40

Client Sample ID: VE03-B-002-006

Lab ID#: 0506152-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	25	150	66	390
Freon 11	25	120	140	680
Ethanol	100	170	190	320
Acetone	100	5100	240	12000
2-Propanol	100	680	240	1700
2-Butanone (Methyl Ethyl Ketone)	25	1700	74	5000
Tetrahydrofuran	25	25	74	75
4-Methyl-2-pentanone	25	40	100	160

Client Sample ID: VE03-INN-002-007

Lab ID#: 0506152-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	10	14	21	28
Vinyl Chloride	2.5	2.6	6.4	6.8
Chloroethane	2.5	43	6.6	110
Freon 11	2.5	47	14	260
Ethanol	10	30	19	56
Acetone	10	810	24	1900
2-Propanol	10	120	24	290
Carbon Disulfide	2.5	5.4	7.8	17
Methylene Chloride	2.5	5.9	8.7	20
2-Butanone (Methyl Ethyl Ketone)	2.5	340	7.4	1000
Chloroform	2.5	3.0	12	15
Trichloroethene	2.5	5.6	13	30
4-Methyl-2-pentanone	2.5	9.4	10	39

Client Sample ID: VE03-EFF-002-008

Lab ID#: 0506152-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	5.0	44	13	120
Freon 11	5.0	11	28	63
Ethanol	20	68	38	130
Freon 113	5.0	9.2	38	70
Acetone	20	1700	48	4100
2-Propanol	20	210	49	520
Methylene Chloride	5.0	15	17	53
1,1-Dichloroethane	5.0	6.0	20	24
2-Butanone (Methyl Ethyl Ketone)	5.0	1200	15	3600
Tetrahydrofuran	5.0	8.7	15	26
1,2-Dichloroethane	5.0	5.9	20	24
4-Methyl-2-pentanone	5.0	51	20	210
2-Hexanone	20	42	82	170

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Client Sample ID: VE03-A-002-005

Lab ID#: 0506152-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060807**	**Date of Collection:**	**6/6/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/8/05 05:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.50	2.5	2.5
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	6.6	1.3	18
Freon 11	0.50	4.5	2.8	25
Ethanol	2.0	17	3.8	31
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	190	4.8	450
2-Propanol	2.0	35	4.9	86
Carbon Disulfide	0.50	3.5	1.6	11
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.1	1.7	3.8
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	120	1.5	360
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	1.2	1.5	3.4
Chloroform	0.50	0.91	2.4	4.4
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	0.53	3.1	3.3
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	2.0	2.0	8.0
Trichloroethene	0.50	1.2	2.7	6.5
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	3.6	2.0	15
Toluene	0.50	1.0	1.9	3.9
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.74	3.4	5.0
2-Hexanone	2.0	9.4	8.2	38

AIR TOXICS LTD.

Client Sample ID: VE03-A-002-005

Lab ID#: 0506152-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060807**	**Date of Collection: 6/6/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 05:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: VE03-A-002-005 Duplicate

Lab ID#: 0506152-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060808**	**Date of Collection:**	**6/6/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/8/05 06:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	7.0	1.3	18
Freon 11	0.50	4.5	2.8	25
Ethanol	2.0	18	3.8	35
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	200 E	4.8	480 E
2-Propanol	2.0	38	4.9	93
Carbon Disulfide	0.50	3.7	1.6	12
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.1	1.7	4.0
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	130	1.5	370
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	1.4	1.5	4.0
Chloroform	0.50	0.99	2.4	4.8
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	1.9	2.0	7.8
Trichloroethene	0.50	1.2	2.7	6.4
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	3.7	2.0	15
Toluene	0.50	0.98	1.9	3.7
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.71	3.4	4.8
2-Hexanone	2.0	9.7	8.2	40

AIR TOXICS LTD.

Client Sample ID: VE03-A-002-005 Duplicate

Lab ID#: 0506152-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060808**	**Date of Collection:**	**6/6/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/8/05 06:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-006

Lab ID#: 0506152-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060810**	**Date of Collection: 6/6/05**	
Dil. Factor:	**50.0**	**Date of Analysis: 6/8/05 08:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	25	Not Detected	120	Not Detected
Freon 114	25	Not Detected	170	Not Detected
Chloromethane	100	Not Detected	210	Not Detected
Vinyl Chloride	25	Not Detected	64	Not Detected
1,3-Butadiene	25	Not Detected	55	Not Detected
Bromomethane	25	Not Detected	97	Not Detected
Chloroethane	25	150	66	390
Freon 11	25	120	140	680
Ethanol	100	170	190	320
Freon 113	25	Not Detected	190	Not Detected
1,1-Dichloroethene	25	Not Detected	99	Not Detected
Acetone	100	5100	240	12000
2-Propanol	100	680	240	1700
Carbon Disulfide	25	Not Detected	78	Not Detected
3-Chloropropene	100	Not Detected	310	Not Detected
Methylene Chloride	25	Not Detected	87	Not Detected
Methyl tert-butyl ether	25	Not Detected	90	Not Detected
trans-1,2-Dichloroethene	25	Not Detected	99	Not Detected
Hexane	25	Not Detected	88	Not Detected
1,1-Dichloroethane	25	Not Detected	100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	25	1700	74	5000
cis-1,2-Dichloroethene	25	Not Detected	99	Not Detected
Tetrahydrofuran	25	25	74	75
Chloroform	25	Not Detected	120	Not Detected
1,1,1-Trichloroethane	25	Not Detected	140	Not Detected
Cyclohexane	25	Not Detected	86	Not Detected
Carbon Tetrachloride	25	Not Detected	160	Not Detected
2,2,4-Trimethylpentane	25	Not Detected	120	Not Detected
Benzene	25	Not Detected	80	Not Detected
1,2-Dichloroethane	25	Not Detected	100	Not Detected
Heptane	25	Not Detected	100	Not Detected
Trichloroethene	25	Not Detected	130	Not Detected
1,2-Dichloropropane	25	Not Detected	120	Not Detected
1,4-Dioxane	100	Not Detected	360	Not Detected
Bromodichloromethane	25	Not Detected	170	Not Detected
cis-1,3-Dichloropropene	25	Not Detected	110	Not Detected
4-Methyl-2-pentanone	25	40	100	160
Toluene	25	Not Detected	94	Not Detected
trans-1,3-Dichloropropene	25	Not Detected	110	Not Detected
1,1,2-Trichloroethane	25	Not Detected	140	Not Detected
Tetrachloroethene	25	Not Detected	170	Not Detected
2-Hexanone	100	Not Detected	410	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-006

Lab ID#: 0506152-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060810**	**Date of Collection:**	**6/6/05**
Dil. Factor:	**50.0**	**Date of Analysis:**	**6/8/05 08:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	25	Not Detected	210	Not Detected
1,2-Dibromoethane (EDB)	25	Not Detected	190	Not Detected
Chlorobenzene	25	Not Detected	120	Not Detected
Ethyl Benzene	25	Not Detected	110	Not Detected
m,p-Xylene	25	Not Detected	110	Not Detected
o-Xylene	25	Not Detected	110	Not Detected
Styrene	25	Not Detected	110	Not Detected
Bromoform	25	Not Detected	260	Not Detected
Cumene	25	Not Detected	120	Not Detected
1,1,2,2-Tetrachloroethane	25	Not Detected	170	Not Detected
Propylbenzene	25	Not Detected	120	Not Detected
4-Ethyltoluene	25	Not Detected	120	Not Detected
1,3,5-Trimethylbenzene	25	Not Detected	120	Not Detected
1,2,4-Trimethylbenzene	25	Not Detected	120	Not Detected
1,3-Dichlorobenzene	25	Not Detected	150	Not Detected
1,4-Dichlorobenzene	25	Not Detected	150	Not Detected
alpha-Chlorotoluene	25	Not Detected	130	Not Detected
1,2-Dichlorobenzene	25	Not Detected	150	Not Detected
1,2,4-Trichlorobenzene	100	Not Detected	740	Not Detected
Hexachlorobutadiene	100	Not Detected	1100	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-INN-002-007

Lab ID#: 0506152-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060809**	**Date of Collection: 6/6/05**	
Dil. Factor:	**5.00**	**Date of Analysis: 6/8/05 07:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.5	Not Detected	12	Not Detected
Freon 114	2.5	Not Detected	17	Not Detected
Chloromethane	10	14	21	28
Vinyl Chloride	2.5	2.6	6.4	6.8
1,3-Butadiene	2.5	Not Detected	5.5	Not Detected
Bromomethane	2.5	Not Detected	9.7	Not Detected
Chloroethane	2.5	43	6.6	110
Freon 11	2.5	47	14	260
Ethanol	10	30	19	56
Freon 113	2.5	Not Detected	19	Not Detected
1,1-Dichloroethene	2.5	Not Detected	9.9	Not Detected
Acetone	10	810	24	1900
2-Propanol	10	120	24	290
Carbon Disulfide	2.5	5.4	7.8	17
3-Chloropropene	10	Not Detected	31	Not Detected
Methylene Chloride	2.5	5.9	8.7	20
Methyl tert-butyl ether	2.5	Not Detected	9.0	Not Detected
trans-1,2-Dichloroethene	2.5	Not Detected	9.9	Not Detected
Hexane	2.5	Not Detected	8.8	Not Detected
1,1-Dichloroethane	2.5	Not Detected	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.5	340	7.4	1000
cis-1,2-Dichloroethene	2.5	Not Detected	9.9	Not Detected
Tetrahydrofuran	2.5	Not Detected	7.4	Not Detected
Chloroform	2.5	3.0	12	15
1,1,1-Trichloroethane	2.5	Not Detected	14	Not Detected
Cyclohexane	2.5	Not Detected	8.6	Not Detected
Carbon Tetrachloride	2.5	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	2.5	Not Detected	12	Not Detected
Benzene	2.5	Not Detected	8.0	Not Detected
1,2-Dichloroethane	2.5	Not Detected	10	Not Detected
Heptane	2.5	Not Detected	10	Not Detected
Trichloroethene	2.5	5.6	13	30
1,2-Dichloropropane	2.5	Not Detected	12	Not Detected
1,4-Dioxane	10	Not Detected	36	Not Detected
Bromodichloromethane	2.5	Not Detected	17	Not Detected
cis-1,3-Dichloropropene	2.5	Not Detected	11	Not Detected
4-Methyl-2-pentanone	2.5	9.4	10	39
Toluene	2.5	Not Detected	9.4	Not Detected
trans-1,3-Dichloropropene	2.5	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.5	Not Detected	14	Not Detected
Tetrachloroethene	2.5	Not Detected	17	Not Detected
2-Hexanone	10	Not Detected	41	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-INN-002-007

Lab ID#: 0506152-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060809**	**Date of Collection:**	**6/6/05**
Dil. Factor:	**5.00**	**Date of Analysis:**	**6/8/05 07:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.5	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	2.5	Not Detected	19	Not Detected
Chlorobenzene	2.5	Not Detected	12	Not Detected
Ethyl Benzene	2.5	Not Detected	11	Not Detected
m,p-Xylene	2.5	Not Detected	11	Not Detected
o-Xylene	2.5	Not Detected	11	Not Detected
Styrene	2.5	Not Detected	11	Not Detected
Bromoform	2.5	Not Detected	26	Not Detected
Cumene	2.5	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	2.5	Not Detected	17	Not Detected
Propylbenzene	2.5	Not Detected	12	Not Detected
4-Ethyltoluene	2.5	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	2.5	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	2.5	Not Detected	12	Not Detected
1,3-Dichlorobenzene	2.5	Not Detected	15	Not Detected
1,4-Dichlorobenzene	2.5	Not Detected	15	Not Detected
alpha-Chlorotoluene	2.5	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.5	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	74	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-002-008

Lab ID#: 0506152-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060811**	**Date of Collection:**	**6/6/05**
Dil. Factor:	**10.0**	**Date of Analysis:**	**6/8/05 09:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	44	13	120
Freon 11	5.0	11	28	63
Ethanol	20	68	38	130
Freon 113	5.0	9.2	38	70
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	1700	48	4100
2-Propanol	20	210	49	520
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	15	17	53
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	6.0	20	24
2-Butanone (Methyl Ethyl Ketone)	5.0	1200	15	3600
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	8.7	15	26
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	5.9	20	24
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	51	20	210
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	42	82	170

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-002-008

Lab ID#: 0506152-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060811**	**Date of Collection: 6/6/05**	
Dil. Factor:	**10.0**	**Date of Analysis: 6/8/05 09:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506152-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 04:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506152-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 04:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506152-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 11:54 AM**	

Compound	%Recovery
Freon 12	93
Freon 114	99
Chloromethane	95
Vinyl Chloride	94
1,3-Butadiene	98
Bromomethane	98
Chloroethane	79
Freon 11	96
Ethanol	70
Freon 113	95
1,1-Dichloroethene	79
Acetone	83
2-Propanol	73
Carbon Disulfide	82
3-Chloropropene	79
Methylene Chloride	75
Methyl tert-butyl ether	81
trans-1,2-Dichloroethene	87
Hexane	75
1,1-Dichloroethane	79
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	84
Tetrahydrofuran	84
Chloroform	89
1,1,1-Trichloroethane	96
Cyclohexane	90
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	83
Benzene	85
1,2-Dichloroethane	87
Heptane	92
Trichloroethene	94
1,2-Dichloropropane	88
1,4-Dioxane	94
Bromodichloromethane	92
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	83
Toluene	91
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	87
Tetrachloroethene	90
2-Hexanone	81

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506152-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 11:54 AM**	

Compound	**%Recovery**
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	94
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	89
o-Xylene	90
Styrene	79
Bromoform	93
Cumene	86
1,1,2,2-Tetrachloroethane	86
Propylbenzene	83
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	85
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506152-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 01:31 PM**	

Compound	%Recovery
Freon 12	92
Freon 114	97
Chloromethane	92
Vinyl Chloride	90
1,3-Butadiene	120
Bromomethane	98
Chloroethane	70
Freon 11	93
Ethanol	59 Q
Freon 113	89
1,1-Dichloroethene	77
Acetone	79
2-Propanol	82
Carbon Disulfide	84
3-Chloropropene	97
Methylene Chloride	73
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	107
Hexane	78
1,1-Dichloroethane	74
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	92
Tetrahydrofuran	82
Chloroform	82
1,1,1-Trichloroethane	81
Cyclohexane	96
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	90
Benzene	74
1,2-Dichloroethane	74
Heptane	99
Trichloroethene	82
1,2-Dichloropropane	72
1,4-Dioxane	81
Bromodichloromethane	97
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	74
Toluene	86
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	81
Tetrachloroethene	85
2-Hexanone	62

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506152-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 01:31 PM**	

Compound	**%Recovery**
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	86
Chlorobenzene	87
Ethyl Benzene	84
m,p-Xylene	85
o-Xylene	86
Styrene	103
Bromoform	124
Cumene	91
1,1,2,2-Tetrachloroethane	78
Propylbenzene	128
4-Ethyltoluene	81
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	80
1,4-Dichlorobenzene	81
alpha-Chlorotoluene	79
1,2-Dichlorobenzene	80
1,2,4-Trichlorobenzene	67 Q
Hexachlorobutadiene	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506152-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 03:25 PM**	

Compound	%Recovery
Freon 12	86
Freon 114	90
Chloromethane	86
Vinyl Chloride	84
1,3-Butadiene	111
Bromomethane	94
Chloroethane	65 Q
Freon 11	89
Ethanol	57 Q
Freon 113	83
1,1-Dichloroethene	73
Acetone	74
2-Propanol	76
Carbon Disulfide	78
3-Chloropropene	92
Methylene Chloride	68 Q
Methyl tert-butyl ether	81
trans-1,2-Dichloroethene	100
Hexane	73
1,1-Dichloroethane	69 Q
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	86
Tetrahydrofuran	76
Chloroform	77
1,1,1-Trichloroethane	77
Cyclohexane	91
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	85
Benzene	70
1,2-Dichloroethane	71
Heptane	93
Trichloroethene	78
1,2-Dichloropropane	68 Q
1,4-Dioxane	77
Bromodichloromethane	93
cis-1,3-Dichloropropene	78
4-Methyl-2-pentanone	69
Toluene	81
trans-1,3-Dichloropropene	80
1,1,2-Trichloroethane	76
Tetrachloroethene	80
2-Hexanone	58 Q

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506152-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/05 03:25 PM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	82
Chlorobenzene	82
Ethyl Benzene	80
m,p-Xylene	81
o-Xylene	82
Styrene	98
Bromoform	119
Cumene	87
1,1,2,2-Tetrachloroethane	74
Propylbenzene	123
4-Ethyltoluene	77
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	81
1,3-Dichlorobenzene	76
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	76
1,2-Dichlorobenzene	76
1,2,4-Trichlorobenzene	70
Hexachlorobutadiene	78

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	91	70-130

0506183

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON - LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
SCOTT BREWER	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
SPL SVE	SPL VE03	473803	919-985-1000	916-985-1070	TONY FORD

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
MARCO MENDOZA	619-843-9968	626-296-0200	180 BLUE RAVINE RD. STE B	22632 GOLDEN SPRING DR STE 270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR.	PASADENA, CA	BATTELLE	FOLSOM, CA 95630	DIAMOND BAR, CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
TONY FORD	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses TO-14	Comments
01A 1	VE03-A-002-009	AIR	6/7/05	0923	NONE	1*	III	NORM	X	1* = 1L TEDLAR BAG. SCREEN A
02A 2	VE03-B-002-010	↓	↓	0925	↓	↓	↓	↓	X	SCREEN B
03A 3	VE03-INN-002-011	↓	↓	0927	↓	↓	↓	↓	X	SCREEN INFLUENT
04A 4	VE03-EFF-002-012	↓	↓	0929	↓	↓	↓	↓	X	SCREEN EFFLUENT
5										
6										
7										
8										
9										
10										

SAMPLES COLLECTED BY: C. BRODDON

COURIER AND AIR BILL NUMBER: FED-EX 8473 5404 3468

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	Lawrence Thomas ATL	6/8/05	950

SAMPLE CONDITION UPON RECEIPT

CUSTODY SEAL INTACT?
Y N NONE TEMP.

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0506183

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	06/08/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	06/11/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A(cancelled)	VE03-A-002-009	Modified TO-14A	Tedlar Bag
02A	VE03-B-002-010	Modified TO-14A	Tedlar Bag
03A	VE03-INN-002-011	Modified TO-14A	Tedlar Bag
04A	VE03-EFF-002-012	Modified TO-14A	Tedlar Bag
05A	Lab Blank	Modified TO-14A	NA
06A	CCV	Modified TO-14A	NA
07A	LCS	Modified TO-14A	NA
07AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

DATE: 06/14/05

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0506183

Four 1 Liter Tedlar Bag samples were received on June 08, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-002-010

Lab ID#: 0506183-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	12	120	33	310
Freon 11	12	160	70	920
Ethanol	50	150 J	94	280 J
Acetone	50	4000	120	9500
2-Propanol	50	560	120	1400
Methylene Chloride	12	17	43	58
2-Butanone (Methyl Ethyl Ketone)	12	1400	37	4100
Tetrahydrofuran	12	14	37	41
4-Methyl-2-pentanone	12	32	51	130

Client Sample ID: VE03-INN-002-011

Lab ID#: 0506183-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	5.0	7.0	10	14
Vinyl Chloride	1.2	1.4	3.2	3.7
Chloroethane	1.2	22	3.3	59
Freon 11	1.2	48	7.0	270
Ethanol	5.0	18 J	9.4	34 J
Acetone	5.0	430	12	1000
2-Propanol	5.0	65	12	160
Carbon Disulfide	1.2	4.8	3.9	15
Methylene Chloride	1.2	3.4	4.3	12
1,1-Dichloroethane	1.2	1.3	5.0	5.2
2-Butanone (Methyl Ethyl Ketone)	1.2	190	3.7	550
Tetrahydrofuran	1.2	2.6	3.7	7.8
Chloroform	1.2	3.2	6.1	16
Carbon Tetrachloride	1.2	2.3	7.9	14
Trichloroethene	1.2	5.2	6.7	28
4-Methyl-2-pentanone	1.2	5.4	5.1	22
Tetrachloroethene	1.2	1.5	8.5	10

Client Sample ID: VE03-EFF-002-012

Lab ID#: 0506183-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	2.8	27	7.5	72
Freon 11	2.8	4.8	16	27
Ethanol	11	35 J	22	66 J

Client Sample ID: VE03-EFF-002-012

Lab ID#: 0506183-04A

Freon 113	2.8	4.3	22	33
Acetone	11	830	27	2000
2-Propanol	11	120	28	290
Carbon Disulfide	2.8	5.4	8.9	17
Methylene Chloride	2.8	8.6	9.9	30
1,1-Dichloroethane	2.8	3.3	12	13
2-Butanone (Methyl Ethyl Ketone)	2.8	560	8.4	1700
Tetrahydrofuran	2.8	3.3	8.4	9.8
1,2-Dichloroethane	2.8	3.0	12	12
4-Methyl-2-pentanone	2.8	23	12	95
2-Hexanone	11	17	47	70

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Client Sample ID: VE03-B-002-010

Lab ID#: 0506183-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060907**	**Date of Collection:**	**6/7/05**
Dil. Factor:	**25.0**	**Date of Analysis:**	**6/9/05 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	12	Not Detected	62	Not Detected
Freon 114	12	Not Detected	87	Not Detected
Chloromethane	50	Not Detected	100	Not Detected
Vinyl Chloride	12	Not Detected	32	Not Detected
1,3-Butadiene	12	Not Detected	28	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	12	120	33	310
Freon 11	12	160	70	920
Ethanol	50	150 J	94	280 J
Freon 113	12	Not Detected	96	Not Detected
1,1-Dichloroethene	12	Not Detected	50	Not Detected
Acetone	50	4000	120	9500
2-Propanol	50	560	120	1400
Carbon Disulfide	12	Not Detected	39	Not Detected
3-Chloropropene	50	Not Detected	160	Not Detected
Methylene Chloride	12	17	43	58
Methyl tert-butyl ether	12	Not Detected	45	Not Detected
trans-1,2-Dichloroethene	12	Not Detected	50	Not Detected
Hexane	12	Not Detected	44	Not Detected
1,1-Dichloroethane	12	Not Detected	50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	1400	37	4100
cis-1,2-Dichloroethene	12	Not Detected	50	Not Detected
Tetrahydrofuran	12	14	37	41
Chloroform	12	Not Detected	61	Not Detected
1,1,1-Trichloroethane	12	Not Detected	68	Not Detected
Cyclohexane	12	Not Detected	43	Not Detected
Carbon Tetrachloride	12	Not Detected	79	Not Detected
2,2,4-Trimethylpentane	12	Not Detected	58	Not Detected
Benzene	12	Not Detected	40	Not Detected
1,2-Dichloroethane	12	Not Detected	50	Not Detected
Heptane	12	Not Detected	51	Not Detected
Trichloroethene	12	Not Detected	67	Not Detected
1,2-Dichloropropane	12	Not Detected	58	Not Detected
1,4-Dioxane	50	Not Detected	180	Not Detected
Bromodichloromethane	12	Not Detected	84	Not Detected
cis-1,3-Dichloropropene	12	Not Detected	57	Not Detected
4-Methyl-2-pentanone	12	32	51	130
Toluene	12	Not Detected	47	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	57	Not Detected
1,1,2-Trichloroethane	12	Not Detected	68	Not Detected
Tetrachloroethene	12	Not Detected	85	Not Detected
2-Hexanone	50	Not Detected	200	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-010

Lab ID#: 0506183-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060907**	**Date of Collection:**	**6/7/05**
Dil. Factor:	**25.0**	**Date of Analysis:**	**6/9/05 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	12	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	12	Not Detected	96	Not Detected
Chlorobenzene	12	Not Detected	58	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
Styrene	12	Not Detected	53	Not Detected
Bromoform	12	Not Detected	130	Not Detected
Cumene	12	Not Detected	61	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	86	Not Detected
Propylbenzene	12	Not Detected	61	Not Detected
4-Ethyltoluene	12	Not Detected	61	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	61	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	61	Not Detected
1,3-Dichlorobenzene	12	Not Detected	75	Not Detected
1,4-Dichlorobenzene	12	Not Detected	75	Not Detected
alpha-Chlorotoluene	12	Not Detected	65	Not Detected
1,2-Dichlorobenzene	12	Not Detected	75	Not Detected
1,2,4-Trichlorobenzene	50	Not Detected	370	Not Detected
Hexachlorobutadiene	50	Not Detected	530	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-INN-002-011

Lab ID#: 0506183-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060908**	**Date of Collection:**	**6/7/05**
Dil. Factor:	**2.50**	**Date of Analysis:**	**6/9/05 07:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	Not Detected	6.2	Not Detected
Freon 114	1.2	Not Detected	8.7	Not Detected
Chloromethane	5.0	7.0	10	14
Vinyl Chloride	1.2	1.4	3.2	3.7
1,3-Butadiene	1.2	Not Detected	2.8	Not Detected
Bromomethane	1.2	Not Detected	4.8	Not Detected
Chloroethane	1.2	22	3.3	59
Freon 11	1.2	48	7.0	270
Ethanol	5.0	18 J	9.4	34 J
Freon 113	1.2	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Acetone	5.0	430	12	1000
2-Propanol	5.0	65	12	160
Carbon Disulfide	1.2	4.8	3.9	15
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.2	3.4	4.3	12
Methyl tert-butyl ether	1.2	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	1.3	5.0	5.2
2-Butanone (Methyl Ethyl Ketone)	1.2	190	3.7	550
cis-1,2-Dichloroethene	1.2	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.2	2.6	3.7	7.8
Chloroform	1.2	3.2	6.1	16
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Cyclohexane	1.2	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.2	2.3	7.9	14
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	5.2	6.7	28
1,2-Dichloropropane	1.2	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.2	5.4	5.1	22
Toluene	1.2	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	1.5	8.5	10
2-Hexanone	5.0	Not Detected	20	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-INN-002-011

Lab ID#: 0506183-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060908**	**Date of Collection:**	**6/7/05**
Dil. Factor:	**2.50**	**Date of Analysis:**	**6/9/05 07:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	1.2	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.6	Not Detected
Chlorobenzene	1.2	Not Detected	5.8	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.6	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.5	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	53	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-002-012

Lab ID#: 0506183-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060909**	**Date of Collection:**	**6/7/05**
Dil. Factor:	**5.71**	**Date of Analysis:**	**6/9/05 07:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.8	Not Detected	14	Not Detected
Freon 114	2.8	Not Detected	20	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	2.8	Not Detected	7.3	Not Detected
1,3-Butadiene	2.8	Not Detected	6.3	Not Detected
Bromomethane	2.8	Not Detected	11	Not Detected
Chloroethane	2.8	27	7.5	72
Freon 11	2.8	4.8	16	27
Ethanol	11	35 J	22	66 J
Freon 113	2.8	4.3	22	33
1,1-Dichloroethene	2.8	Not Detected	11	Not Detected
Acetone	11	830	27	2000
2-Propanol	11	120	28	290
Carbon Disulfide	2.8	5.4	8.9	17
3-Chloropropene	11	Not Detected	36	Not Detected
Methylene Chloride	2.8	8.6	9.9	30
Methyl tert-butyl ether	2.8	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Hexane	2.8	Not Detected	10	Not Detected
1,1-Dichloroethane	2.8	3.3	12	13
2-Butanone (Methyl Ethyl Ketone)	2.8	560	8.4	1700
cis-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Tetrahydrofuran	2.8	3.3	8.4	9.8
Chloroform	2.8	Not Detected	14	Not Detected
1,1,1-Trichloroethane	2.8	Not Detected	16	Not Detected
Cyclohexane	2.8	Not Detected	9.8	Not Detected
Carbon Tetrachloride	2.8	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	2.8	Not Detected	13	Not Detected
Benzene	2.8	Not Detected	9.1	Not Detected
1,2-Dichloroethane	2.8	3.0	12	12
Heptane	2.8	Not Detected	12	Not Detected
Trichloroethene	2.8	Not Detected	15	Not Detected
1,2-Dichloropropane	2.8	Not Detected	13	Not Detected
1,4-Dioxane	11	Not Detected	41	Not Detected
Bromodichloromethane	2.8	Not Detected	19	Not Detected
cis-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
4-Methyl-2-pentanone	2.8	23	12	95
Toluene	2.8	Not Detected	11	Not Detected
trans-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
1,1,2-Trichloroethane	2.8	Not Detected	16	Not Detected
Tetrachloroethene	2.8	Not Detected	19	Not Detected
2-Hexanone	11	17	47	70

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-002-012

Lab ID#: 0506183-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060909**	**Date of Collection:**	**6/7/05**
Dil. Factor:	**5.71**	**Date of Analysis:**	**6/9/05 07:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.8	Not Detected	24	Not Detected
1,2-Dibromoethane (EDB)	2.8	Not Detected	22	Not Detected
Chlorobenzene	2.8	Not Detected	13	Not Detected
Ethyl Benzene	2.8	Not Detected	12	Not Detected
m,p-Xylene	2.8	Not Detected	12	Not Detected
o-Xylene	2.8	Not Detected	12	Not Detected
Styrene	2.8	Not Detected	12	Not Detected
Bromoform	2.8	Not Detected	30	Not Detected
Cumene	2.8	Not Detected	14	Not Detected
1,1,2,2-Tetrachloroethane	2.8	Not Detected	20	Not Detected
Propylbenzene	2.8	Not Detected	14	Not Detected
4-Ethyltoluene	2.8	Not Detected	14	Not Detected
1,3,5-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,2,4-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,3-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,4-Dichlorobenzene	2.8	Not Detected	17	Not Detected
alpha-Chlorotoluene	2.8	Not Detected	15	Not Detected
1,2-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	85	Not Detected
Hexachlorobutadiene	11	Not Detected	120	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506183-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 04:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected U J	3.8	Not Detected U J
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506183-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 04:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506183-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 12:00 PM**	

Compound	%Recovery
Freon 12	91
Freon 114	96
Chloromethane	93
Vinyl Chloride	90
1,3-Butadiene	94
Bromomethane	97
Chloroethane	76
Freon 11	94
Ethanol	69 Q
Freon 113	92
1,1-Dichloroethene	77
Acetone	78
2-Propanol	71
Carbon Disulfide	79
3-Chloropropene	84
Methylene Chloride	72
Methyl tert-butyl ether	78
trans-1,2-Dichloroethene	85
Hexane	72
1,1-Dichloroethane	77
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	81
Tetrahydrofuran	80
Chloroform	86
1,1,1-Trichloroethane	95
Cyclohexane	89
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	80
Benzene	81
1,2-Dichloroethane	85
Heptane	91
Trichloroethene	92
1,2-Dichloropropane	84
1,4-Dioxane	93
Bromodichloromethane	90
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	81
Toluene	90
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	85
Tetrachloroethene	88
2-Hexanone	79

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506183-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 12:00 PM**	

Compound	**%Recovery**
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	92
Chlorobenzene	89
Ethyl Benzene	86
m,p-Xylene	87
o-Xylene	89
Styrene	78
Bromoform	92
Cumene	85
1,1,2,2-Tetrachloroethane	84
Propylbenzene	82
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	85
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	83
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	92

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506183-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 01:31 PM**	

Compound	%Recovery
Freon 12	89
Freon 114	95
Chloromethane	92
Vinyl Chloride	88
1,3-Butadiene	117
Bromomethane	96
Chloroethane	68 Q
Freon 11	91
Ethanol	58 Q
Freon 113	86
1,1-Dichloroethene	75
Acetone	78
2-Propanol	79
Carbon Disulfide	82
3-Chloropropene	94
Methylene Chloride	70
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	104
Hexane	75
1,1-Dichloroethane	72
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	89
Tetrahydrofuran	78
Chloroform	79
1,1,1-Trichloroethane	80
Cyclohexane	93
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	88
Benzene	72
1,2-Dichloroethane	72
Heptane	95
Trichloroethene	80
1,2-Dichloropropane	70
1,4-Dioxane	79
Bromodichloromethane	94
cis-1,3-Dichloropropene	81
4-Methyl-2-pentanone	71
Toluene	83
trans-1,3-Dichloropropene	80
1,1,2-Trichloroethane	77
Tetrachloroethene	82
2-Hexanone	59 Q

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506183-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 01:31 PM**	

Compound	**%Recovery**
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	82
Chlorobenzene	82
Ethyl Benzene	80
m,p-Xylene	81
o-Xylene	82
Styrene	99
Bromoform	120
Cumene	88
1,1,2,2-Tetrachloroethane	76
Propylbenzene	124
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	78
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	74
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506183-07AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 02:11 PM**	

Compound	%Recovery
Freon 12	86
Freon 114	91
Chloromethane	88
Vinyl Chloride	86
1,3-Butadiene	114
Bromomethane	95
Chloroethane	67 Q
Freon 11	88
Ethanol	57 Q
Freon 113	83
1,1-Dichloroethene	74
Acetone	77
2-Propanol	80
Carbon Disulfide	81
3-Chloropropene	92
Methylene Chloride	70
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	102
Hexane	75
1,1-Dichloroethane	70
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	87
Tetrahydrofuran	78
Chloroform	78
1,1,1-Trichloroethane	77
Cyclohexane	92
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	87
Benzene	72
1,2-Dichloroethane	72
Heptane	92
Trichloroethene	79
1,2-Dichloropropane	70
1,4-Dioxane	78
Bromodichloromethane	93
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	71
Toluene	82
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	78
Tetrachloroethene	82
2-Hexanone	59 Q

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506183-07AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 02:11 PM**	

Compound	**%Recovery**
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	83
Chlorobenzene	83
Ethyl Benzene	81
m,p-Xylene	82
o-Xylene	83
Styrene	100
Bromoform	120
Cumene	88
1,1,2,2-Tetrachloroethane	76
Propylbenzene	124
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	78
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	74
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

0506215

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR: SCOTT BREWER	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: AIR TOXICS	LABORATORY CONTACT: JENNIFER MILLER	MAIL REPORT (COMPANY NAME): GEOFON INC.
PROJECT NAME: SPL SVE	PROJECT LOCATION: SPL VE03	PROJECT NUMBER: 4-73803	LABORATORY PHONE: 919-985-1000	LABORATORY FAX: 916-985-1070	RECIPIENT NAME: TONY FORD
PROJECT CONTACT: MARCO MENDOZA	PROJECT PHONE NUMBER: 619-843-9968	PROJECT FAX: 626-296-0200	LABORATORY ADDRESS: 180 BLUE RAVINE RD. STE B		ADDRESS: 22632 GOLDEN SPRINGS DR. STE 270
PROJECT ADDRESS: 5800 OAK GROVE DR.	CITY, STATE AND ZIPCODE: PASADENA, CA	CLIENT: BATTELLE	CITY, STATE AND ZIPCODE: FOLSOM, CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR, CA 91765
PROJECT MANAGER: TONY FORD	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses TO-14								Comments
01A	VE03-A-002-013	AIR	6/8/05	1250	NONE	1*	III	NORM	X								1* 1 L. TEDLAR BAG. SCREEN A
02A	VE03-B-002-014	↓	↓	1252	↓	↓	↓	↓	X								SCREEN B
03A	VE03-INF-002-015	↓	↓	1254	↓	↓	↓	↓	X								SCREEN INFLUENT
04A	VE03-EFF-002-016	↓	↓	1256	↓	↓	↓	↓	X								SCREEN EFFLUENT
5																	
6																	
7																	
8																	
9																	
10																	

CUSTODY SEAL INTACT?
Y N NONE TEMP

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER	COOLER TEMPERATURE (INSTRUCT LIST)
C. BRADDON	8473 5404 3480	

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature] AIR	6/9/05	415	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Fedex 847354043480

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0506215

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	06/09/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	06/15/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-A-002-013	Modified TO-14A	Tedlar Bag
02A	VE03-B-002-014 (Low)	Modified TO-14A	Tedlar Bag
02B	VE03-B-002-014 (High)	Modified TO-14A	Tedlar Bag
03A	VE03-INN-002-015	Modified TO-14A	Tedlar Bag
04A	VE03-EFF-002-016	Modified TO-14A	Tedlar Bag
05A	Lab Blank	Modified TO-14A	NA
05B	Lab Blank	Modified TO-14A	NA
06A	CCV	Modified TO-14A	NA
06B	CCV	Modified TO-14A	NA
07A	LCS	Modified TO-14A	NA
07AA	LCSD	Modified TO-14A	NA
07B	LCS	Modified TO-14A	NA
07BB	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 06/18/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0506215

Four 1 Liter Tedlar Bag samples were received on June 09, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to high-level target compounds, sample VE03-B-002-014 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-A-002-013

Lab ID#: 0506215-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.51	2.5	2.5
Chloroethane	0.50	6.4	1.3	17
Freon 11	0.50	4.2	2.8	24
Ethanol	2.0	16 J	3.8	30 J
Acetone	2.0	190	4.8	460
2-Propanol	2.0	34	4.9	82
Carbon Disulfide	0.50	2.8	1.6	8.7
Methylene Chloride	0.50	1.1	1.7	3.9
2-Butanone (Methyl Ethyl Ketone)	0.50	120	1.5	360
Tetrahydrofuran	0.50	1.7	1.5	5.1
Chloroform	0.50	1.0	2.4	5.2
Heptane	0.50	1.6	2.0	6.6
Trichloroethene	0.50	0.90	2.7	4.8
4-Methyl-2-pentanone	0.50	3.7	2.0	15
Toluene	0.50	1.4	1.9	5.3
Tetrachloroethene	0.50	0.63	3.4	4.3
2-Hexanone	2.0	9.4	8.2	38
m,p-Xylene	0.50	0.61	2.2	2.6

Client Sample ID: VE03-B-002-014 (Low)

Lab ID#: 0506215-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	33	200	88	520
Freon 11	33	110	190	640
Ethanol	130	310	250	590
Acetone	130	7100	320	17000
2-Propanol	130	1100	330	2800
Methylene Chloride	33	76 J	120	260 J
2-Butanone (Methyl Ethyl Ketone)	33	2000	98	5900
Tetrahydrofuran	33	52	98	150
4-Methyl-2-pentanone	33	56	140	230

Client Sample ID: VE03-B-002-014 (High)

Lab ID#: 0506215-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	27	49	55	100
Vinyl Chloride	6.6	19	17	49

Client Sample ID: VE03-B-002-014 (High)

Lab ID#: 0506215-02B

Chloroethane	6.6	220	18	590
Freon 11	6.6	130	37	710
Ethanol	27	310	50	590
Acetone	27	7700 E	63	18000 E
2-Propanol	27	1300	65	3200
Methylene Chloride	6.6	37 J	23	130 J
Hexane	6.6	23	23	82
1,1-Dichloroethane	6.6	12	27	48
2-Butanone (Methyl Ethyl Ketone)	6.6	2500	20	7300
Tetrahydrofuran	6.6	38	20	110
Chloroform	6.6	11	32	52
Heptane	6.6	15	27	61
Trichloroethene	6.6	10	36	56
4-Methyl-2-pentanone	6.6	72	27	300
2-Hexanone	27	52	110	210

Client Sample ID: VE03-INN-002-015

Lab ID#: 0506215-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	11	25	24	52
Vinyl Chloride	2.8	4.3	7.3	11
Chloroethane	2.8	78	7.5	210
Freon 11	2.8	51	16	290
Ethanol	11	63	22	120
Acetone	11	1300 E	27	3200 E
2-Propanol	11	240	28	600
Carbon Disulfide	2.8	8.1	8.9	25
Methylene Chloride	2.8	12 J	9.9	42 J
1,1-Dichloroethane	2.8	4.3	12	17
2-Butanone (Methyl Ethyl Ketone)	2.8	480	8.4	1400
Tetrahydrofuran	2.8	5.5	8.4	16
Chloroform	2.8	5.4	14	26
Trichloroethene	2.8	6.2	15	34
4-Methyl-2-pentanone	2.8	16	12	64
2-Hexanone	11	13	47	54

Client Sample ID: VE03-EFF-002-016

Lab ID#: 0506215-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	6.6	84	18	220
Freon 11	6.6	13	37	71
Ethanol	27	130	50	250
Freon 113	6.6	17	51	130
Acetone	27	2600	63	6100
2-Propanol	27	430	65	1000

Client Sample ID: VE03-EFF-002-016

Lab ID#: 0506215-04A

Carbon Disulfide	6.6	15	21	47
Methylene Chloride	6.6	30 J	23	100 J
1,1-Dichloroethane	6.6	10	27	42
2-Butanone (Methyl Ethyl Ketone)	6.6	1500	20	4400
Tetrahydrofuran	6.6	12	20	36
1,2-Dichloroethane	6.6	7.3	27	30
4-Methyl-2-pentanone	6.6	73	27	300
2-Hexanone	27	55	110	230

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Client Sample ID: VE03-A-002-013

Lab ID#: 0506215-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060910**	**Date of Collection:**	**6/8/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/9/05 08:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.51	2.5	2.5
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	6.4	1.3	17
Freon 11	0.50	4.2	2.8	24
Ethanol	2.0	16 J	3.8	30 J
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	190	4.8	460
2-Propanol	2.0	34	4.9	82
Carbon Disulfide	0.50	2.8	1.6	8.7
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.1	1.7	3.9
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	120	1.5	360
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	1.7	1.5	5.1
Chloroform	0.50	1.0	2.4	5.2
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	1.6	2.0	6.6
Trichloroethene	0.50	0.90	2.7	4.8
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	3.7	2.0	15
Toluene	0.50	1.4	1.9	5.3
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.63	3.4	4.3
2-Hexanone	2.0	9.4	8.2	38

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Client Sample ID: VE03-A-002-013

Lab ID#: 0506215-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060910**	**Date of Collection:**	**6/8/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/9/05 08:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.61	2.2	2.6
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-014 (Low)

Lab ID#: 0506215-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061012**	**Date of Collection: 6/8/05**	
Dil. Factor:	**66.7**	**Date of Analysis: 6/10/05 11:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	33	Not Detected	160	Not Detected
Freon 114	33	Not Detected	230	Not Detected
Chloromethane	130	Not Detected	280	Not Detected
Vinyl Chloride	33	Not Detected	85	Not Detected
1,3-Butadiene	33	Not Detected	74	Not Detected
Bromomethane	33	Not Detected	130	Not Detected
Chloroethane	33	200	88	520
Freon 11	33	110	190	640
Ethanol	130	310	250	590
Freon 113	33	Not Detected	260	Not Detected
1,1-Dichloroethene	33	Not Detected	130	Not Detected
Acetone	130	7100	320	17000
2-Propanol	130	1100	330	2800
Carbon Disulfide	33	Not Detected	100	Not Detected
3-Chloropropene	130	Not Detected	420	Not Detected
Methylene Chloride	33	76 J	120	260 J
Methyl tert-butyl ether	33	Not Detected	120	Not Detected
trans-1,2-Dichloroethene	33	Not Detected	130	Not Detected
Hexane	33	Not Detected	120	Not Detected
1,1-Dichloroethane	33	Not Detected	130	Not Detected
2-Butanone (Methyl Ethyl Ketone)	33	2000	98	5900
cis-1,2-Dichloroethene	33	Not Detected	130	Not Detected
Tetrahydrofuran	33	52	98	150
Chloroform	33	Not Detected	160	Not Detected
1,1,1-Trichloroethane	33	Not Detected	180	Not Detected
Cyclohexane	33	Not Detected	110	Not Detected
Carbon Tetrachloride	33	Not Detected	210	Not Detected
2,2,4-Trimethylpentane	33	Not Detected	160	Not Detected
Benzene	33	Not Detected	110	Not Detected
1,2-Dichloroethane	33	Not Detected	130	Not Detected
Heptane	33	Not Detected	140	Not Detected
Trichloroethene	33	Not Detected	180	Not Detected
1,2-Dichloropropane	33	Not Detected	150	Not Detected
1,4-Dioxane	130	Not Detected	480	Not Detected
Bromodichloromethane	33	Not Detected	220	Not Detected
cis-1,3-Dichloropropene	33	Not Detected	150	Not Detected
4-Methyl-2-pentanone	33	56	140	230
Toluene	33	Not Detected	120	Not Detected
trans-1,3-Dichloropropene	33	Not Detected	150	Not Detected
1,1,2-Trichloroethane	33	Not Detected	180	Not Detected
Tetrachloroethene	33	Not Detected	230	Not Detected
2-Hexanone	130	Not Detected	550	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-014 (Low)

Lab ID#: 0506215-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061012**	**Date of Collection: 6/8/05**	
Dil. Factor:	**66.7**	**Date of Analysis: 6/10/05 11:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	33	Not Detected	280	Not Detected
1,2-Dibromoethane (EDB)	33	Not Detected	260	Not Detected
Chlorobenzene	33	Not Detected	150	Not Detected
Ethyl Benzene	33	Not Detected	140	Not Detected
m,p-Xylene	33	Not Detected	140	Not Detected
o-Xylene	33	Not Detected	140	Not Detected
Styrene	33	Not Detected	140	Not Detected
Bromoform	33	Not Detected	340	Not Detected
Cumene	33	Not Detected	160	Not Detected
1,1,2,2-Tetrachloroethane	33	Not Detected	230	Not Detected
Propylbenzene	33	Not Detected	160	Not Detected
4-Ethyltoluene	33	Not Detected	160	Not Detected
1,3,5-Trimethylbenzene	33	Not Detected	160	Not Detected
1,2,4-Trimethylbenzene	33	Not Detected	160	Not Detected
1,3-Dichlorobenzene	33	Not Detected	200	Not Detected
1,4-Dichlorobenzene	33	Not Detected	200	Not Detected
alpha-Chlorotoluene	33	Not Detected	170	Not Detected
1,2-Dichlorobenzene	33	Not Detected	200	Not Detected
1,2,4-Trichlorobenzene	130	Not Detected	990	Not Detected
Hexachlorobutadiene	130	Not Detected	1400	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-014 (High)

Lab ID#: 0506215-02B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061007**	**Date of Collection: 6/8/05**	
Dil. Factor:	**13.3**	**Date of Analysis: 6/10/05 07:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	6.6	Not Detected	33	Not Detected
Freon 114	6.6	Not Detected	46	Not Detected
Chloromethane	27	49	55	100
Vinyl Chloride	6.6	19	17	49
1,3-Butadiene	6.6	Not Detected	15	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	6.6	220	18	590
Freon 11	6.6	130	37	710
Ethanol	27	310	50	590
Freon 113	6.6	Not Detected	51	Not Detected
1,1-Dichloroethene	6.6	Not Detected	26	Not Detected
Acetone	27	7700 E	63	18000 E
2-Propanol	27	1300	65	3200
Carbon Disulfide	6.6	Not Detected	21	Not Detected
3-Chloropropene	27	Not Detected	83	Not Detected
Methylene Chloride	6.6	37 J	23	130 J
Methyl tert-butyl ether	6.6	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Hexane	6.6	23	23	82
1,1-Dichloroethane	6.6	12	27	48
2-Butanone (Methyl Ethyl Ketone)	6.6	2500	20	7300
cis-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Tetrahydrofuran	6.6	38	20	110
Chloroform	6.6	11	32	52
1,1,1-Trichloroethane	6.6	Not Detected	36	Not Detected
Cyclohexane	6.6	Not Detected	23	Not Detected
Carbon Tetrachloride	6.6	Not Detected	42	Not Detected
2,2,4-Trimethylpentane	6.6	Not Detected	31	Not Detected
Benzene	6.6	Not Detected	21	Not Detected
1,2-Dichloroethane	6.6	Not Detected	27	Not Detected
Heptane	6.6	15	27	61
Trichloroethene	6.6	10	36	56
1,2-Dichloropropane	6.6	Not Detected	31	Not Detected
1,4-Dioxane	27	Not Detected	96	Not Detected
Bromodichloromethane	6.6	Not Detected	44	Not Detected
cis-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
4-Methyl-2-pentanone	6.6	72	27	300
Toluene	6.6	Not Detected	25	Not Detected
trans-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
1,1,2-Trichloroethane	6.6	Not Detected	36	Not Detected
Tetrachloroethene	6.6	Not Detected	45	Not Detected
2-Hexanone	27	52	110	210

AIR TOXICS LTD.

Client Sample ID: VE03-B-002-014 (High)

Lab ID#: 0506215-02B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061007**	**Date of Collection: 6/8/05**	
Dil. Factor:	**13.3**	**Date of Analysis: 6/10/05 07:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	6.6	Not Detected	57	Not Detected
1,2-Dibromoethane (EDB)	6.6	Not Detected	51	Not Detected
Chlorobenzene	6.6	Not Detected	31	Not Detected
Ethyl Benzene	6.6	Not Detected	29	Not Detected
m,p-Xylene	6.6	Not Detected	29	Not Detected
o-Xylene	6.6	Not Detected	29	Not Detected
Styrene	6.6	Not Detected	28	Not Detected
Bromoform	6.6	Not Detected	69	Not Detected
Cumene	6.6	Not Detected	33	Not Detected
1,1,2,2-Tetrachloroethane	6.6	Not Detected	46	Not Detected
Propylbenzene	6.6	Not Detected	33	Not Detected
4-Ethyltoluene	6.6	Not Detected	33	Not Detected
1,3,5-Trimethylbenzene	6.6	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	6.6	Not Detected	33	Not Detected
1,3-Dichlorobenzene	6.6	Not Detected	40	Not Detected
1,4-Dichlorobenzene	6.6	Not Detected	40	Not Detected
alpha-Chlorotoluene	6.6	Not Detected	34	Not Detected
1,2-Dichlorobenzene	6.6	Not Detected	40	Not Detected
1,2,4-Trichlorobenzene	27	Not Detected	200	Not Detected
Hexachlorobutadiene	27	Not Detected	280	Not Detected

E = Exceeds instrument calibration range.
J = Estimated value due to bias in the CCV.
Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-INN-002-015

Lab ID#: 0506215-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061013**	**Date of Collection: 6/8/05**	
Dil. Factor:	**5.71**	**Date of Analysis: 6/11/05 12:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.8	Not Detected	14	Not Detected
Freon 114	2.8	Not Detected	20	Not Detected
Chloromethane	11	25	24	52
Vinyl Chloride	2.8	4.3	7.3	11
1,3-Butadiene	2.8	Not Detected	6.3	Not Detected
Bromomethane	2.8	Not Detected	11	Not Detected
Chloroethane	2.8	78	7.5	210
Freon 11	2.8	51	16	290
Ethanol	11	63	22	120
Freon 113	2.8	Not Detected	22	Not Detected
1,1-Dichloroethene	2.8	Not Detected	11	Not Detected
Acetone	11	1300 E	27	3200 E
2-Propanol	11	240	28	600
Carbon Disulfide	2.8	8.1	8.9	25
3-Chloropropene	11	Not Detected	36	Not Detected
Methylene Chloride	2.8	12 J	9.9	42 J
Methyl tert-butyl ether	2.8	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Hexane	2.8	Not Detected	10	Not Detected
1,1-Dichloroethane	2.8	4.3	12	17
2-Butanone (Methyl Ethyl Ketone)	2.8	480	8.4	1400
cis-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Tetrahydrofuran	2.8	5.5	8.4	16
Chloroform	2.8	5.4	14	26
1,1,1-Trichloroethane	2.8	Not Detected	16	Not Detected
Cyclohexane	2.8	Not Detected	9.8	Not Detected
Carbon Tetrachloride	2.8	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	2.8	Not Detected	13	Not Detected
Benzene	2.8	Not Detected	9.1	Not Detected
1,2-Dichloroethane	2.8	Not Detected	12	Not Detected
Heptane	2.8	Not Detected	12	Not Detected
Trichloroethene	2.8	6.2	15	34
1,2-Dichloropropane	2.8	Not Detected	13	Not Detected
1,4-Dioxane	11	Not Detected	41	Not Detected
Bromodichloromethane	2.8	Not Detected	19	Not Detected
cis-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
4-Methyl-2-pentanone	2.8	16	12	64
Toluene	2.8	Not Detected	11	Not Detected
trans-1,3-Dichloropropene	2.8	Not Detected	13	Not Detected
1,1,2-Trichloroethane	2.8	Not Detected	16	Not Detected
Tetrachloroethene	2.8	Not Detected	19	Not Detected
2-Hexanone	11	13	47	54

AIR TOXICS LTD.

Client Sample ID: VE03-INN-002-015

Lab ID#: 0506215-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061013**	**Date of Collection: 6/8/05**	
Dil. Factor:	**5.71**	**Date of Analysis: 6/11/05 12:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.8	Not Detected	24	Not Detected
1,2-Dibromoethane (EDB)	2.8	Not Detected	22	Not Detected
Chlorobenzene	2.8	Not Detected	13	Not Detected
Ethyl Benzene	2.8	Not Detected	12	Not Detected
m,p-Xylene	2.8	Not Detected	12	Not Detected
o-Xylene	2.8	Not Detected	12	Not Detected
Styrene	2.8	Not Detected	12	Not Detected
Bromoform	2.8	Not Detected	30	Not Detected
Cumene	2.8	Not Detected	14	Not Detected
1,1,2,2-Tetrachloroethane	2.8	Not Detected	20	Not Detected
Propylbenzene	2.8	Not Detected	14	Not Detected
4-Ethyltoluene	2.8	Not Detected	14	Not Detected
1,3,5-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,2,4-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,3-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,4-Dichlorobenzene	2.8	Not Detected	17	Not Detected
alpha-Chlorotoluene	2.8	Not Detected	15	Not Detected
1,2-Dichlorobenzene	2.8	Not Detected	17	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	85	Not Detected
Hexachlorobutadiene	11	Not Detected	120	Not Detected

E = Exceeds instrument calibration range.
J = Estimated value due to bias in the CCV.
Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-002-016

Lab ID#: 0506215-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061014**	**Date of Collection: 6/8/05**	
Dil. Factor:	**13.3**	**Date of Analysis: 6/11/05 01:35 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	6.6	Not Detected	33	Not Detected
Freon 114	6.6	Not Detected	46	Not Detected
Chloromethane	27	Not Detected	55	Not Detected
Vinyl Chloride	6.6	Not Detected	17	Not Detected
1,3-Butadiene	6.6	Not Detected	15	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	6.6	84	18	220
Freon 11	6.6	13	37	71
Ethanol	27	130	50	250
Freon 113	6.6	17	51	130
1,1-Dichloroethene	6.6	Not Detected	26	Not Detected
Acetone	27	2600	63	6100
2-Propanol	27	430	65	1000
Carbon Disulfide	6.6	15	21	47
3-Chloropropene	27	Not Detected	83	Not Detected
Methylene Chloride	6.6	30 J	23	100 J
Methyl tert-butyl ether	6.6	Not Detected	24	Not Detected
trans-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Hexane	6.6	Not Detected	23	Not Detected
1,1-Dichloroethane	6.6	10	27	42
2-Butanone (Methyl Ethyl Ketone)	6.6	1500	20	4400
cis-1,2-Dichloroethene	6.6	Not Detected	26	Not Detected
Tetrahydrofuran	6.6	12	20	36
Chloroform	6.6	Not Detected	32	Not Detected
1,1,1-Trichloroethane	6.6	Not Detected	36	Not Detected
Cyclohexane	6.6	Not Detected	23	Not Detected
Carbon Tetrachloride	6.6	Not Detected	42	Not Detected
2,2,4-Trimethylpentane	6.6	Not Detected	31	Not Detected
Benzene	6.6	Not Detected	21	Not Detected
1,2-Dichloroethane	6.6	7.3	27	30
Heptane	6.6	Not Detected	27	Not Detected
Trichloroethene	6.6	Not Detected	36	Not Detected
1,2-Dichloropropane	6.6	Not Detected	31	Not Detected
1,4-Dioxane	27	Not Detected	96	Not Detected
Bromodichloromethane	6.6	Not Detected	44	Not Detected
cis-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
4-Methyl-2-pentanone	6.6	73	27	300
Toluene	6.6	Not Detected	25	Not Detected
trans-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
1,1,2-Trichloroethane	6.6	Not Detected	36	Not Detected
Tetrachloroethene	6.6	Not Detected	45	Not Detected
2-Hexanone	27	55	110	230

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-002-016

Lab ID#: 0506215-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061014**	**Date of Collection: 6/8/05**	
Dil. Factor:	**13.3**	**Date of Analysis: 6/11/05 01:35 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	6.6	Not Detected	57	Not Detected
1,2-Dibromoethane (EDB)	6.6	Not Detected	51	Not Detected
Chlorobenzene	6.6	Not Detected	31	Not Detected
Ethyl Benzene	6.6	Not Detected	29	Not Detected
m,p-Xylene	6.6	Not Detected	29	Not Detected
o-Xylene	6.6	Not Detected	29	Not Detected
Styrene	6.6	Not Detected	28	Not Detected
Bromoform	6.6	Not Detected	69	Not Detected
Cumene	6.6	Not Detected	33	Not Detected
1,1,2,2-Tetrachloroethane	6.6	Not Detected	46	Not Detected
Propylbenzene	6.6	Not Detected	33	Not Detected
4-Ethyltoluene	6.6	Not Detected	33	Not Detected
1,3,5-Trimethylbenzene	6.6	Not Detected	33	Not Detected
1,2,4-Trimethylbenzene	6.6	Not Detected	33	Not Detected
1,3-Dichlorobenzene	6.6	Not Detected	40	Not Detected
1,4-Dichlorobenzene	6.6	Not Detected	40	Not Detected
alpha-Chlorotoluene	6.6	Not Detected	34	Not Detected
1,2-Dichlorobenzene	6.6	Not Detected	40	Not Detected
1,2,4-Trichlorobenzene	27	Not Detected	200	Not Detected
Hexachlorobutadiene	27	Not Detected	280	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506215-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 04:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected U J	3.8	Not Detected U J
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506215-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 04:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506215-05B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 06:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506215-05B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 06:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506215-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 12:00 PM**	

Compound	%Recovery
Freon 12	91
Freon 114	96
Chloromethane	93
Vinyl Chloride	90
1,3-Butadiene	94
Bromomethane	97
Chloroethane	76
Freon 11	94
Ethanol	69 Q
Freon 113	92
1,1-Dichloroethene	77
Acetone	78
2-Propanol	71
Carbon Disulfide	79
3-Chloropropene	84
Methylene Chloride	72
Methyl tert-butyl ether	78
trans-1,2-Dichloroethene	85
Hexane	72
1,1-Dichloroethane	77
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	81
Tetrahydrofuran	80
Chloroform	86
1,1,1-Trichloroethane	95
Cyclohexane	89
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	80
Benzene	81
1,2-Dichloroethane	85
Heptane	91
Trichloroethene	92
1,2-Dichloropropane	84
1,4-Dioxane	93
Bromodichloromethane	90
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	81
Toluene	90
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	85
Tetrachloroethene	88
2-Hexanone	79

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506215-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 12:00 PM**	

Compound	**%Recovery**
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	92
Chlorobenzene	89
Ethyl Benzene	86
m,p-Xylene	87
o-Xylene	89
Styrene	78
Bromoform	92
Cumene	85
1,1,2,2-Tetrachloroethane	84
Propylbenzene	82
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	85
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	83
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	92

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506215-06B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 02:54 PM**	

Compound	%Recovery
Freon 12	97
Freon 114	93
Chloromethane	126
Vinyl Chloride	118
1,3-Butadiene	110
Bromomethane	104
Chloroethane	116
Freon 11	97
Ethanol	122
Freon 113	97
1,1-Dichloroethene	119
Acetone	119
2-Propanol	128
Carbon Disulfide	112
3-Chloropropene	110
Methylene Chloride	133 Q
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	102
Hexane	127
1,1-Dichloroethane	119
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	116
Tetrahydrofuran	116
Chloroform	106
1,1,1-Trichloroethane	95
Cyclohexane	108
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	123
Benzene	97
1,2-Dichloroethane	110
Heptane	110
Trichloroethene	98
1,2-Dichloropropane	120
1,4-Dioxane	96
Bromodichloromethane	102
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	123
Toluene	100
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	98
Tetrachloroethene	97
2-Hexanone	113

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506215-06B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 02:54 PM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	99
Chlorobenzene	101
Ethyl Benzene	98
m,p-Xylene	101
o-Xylene	100
Styrene	96
Bromoform	99
Cumene	100
1,1,2,2-Tetrachloroethane	103
Propylbenzene	102
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506215-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 01:31 PM**	

Compound	%Recovery
Freon 12	89
Freon 114	95
Chloromethane	92
Vinyl Chloride	88
1,3-Butadiene	117
Bromomethane	96
Chloroethane	68 Q
Freon 11	91
Ethanol	58 Q
Freon 113	86
1,1-Dichloroethene	75
Acetone	78
2-Propanol	79
Carbon Disulfide	82
3-Chloropropene	94
Methylene Chloride	70
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	104
Hexane	75
1,1-Dichloroethane	72
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	89
Tetrahydrofuran	78
Chloroform	79
1,1,1-Trichloroethane	80
Cyclohexane	93
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	88
Benzene	72
1,2-Dichloroethane	72
Heptane	95
Trichloroethene	80
1,2-Dichloropropane	70
1,4-Dioxane	79
Bromodichloromethane	94
cis-1,3-Dichloropropene	81
4-Methyl-2-pentanone	71
Toluene	83
trans-1,3-Dichloropropene	80
1,1,2-Trichloroethane	77
Tetrachloroethene	82
2-Hexanone	59 Q

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506215-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 01:31 PM**	

Compound	**%Recovery**
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	82
Chlorobenzene	82
Ethyl Benzene	80
m,p-Xylene	81
o-Xylene	82
Styrene	99
Bromoform	120
Cumene	88
1,1,2,2-Tetrachloroethane	76
Propylbenzene	124
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	78
1,4-Dichlorobenzene	78
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	74
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506215-07AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 02:11 PM**	

Compound	%Recovery
Freon 12	86
Freon 114	91
Chloromethane	88
Vinyl Chloride	86
1,3-Butadiene	114
Bromomethane	95
Chloroethane	67 Q
Freon 11	88
Ethanol	57 Q
Freon 113	83
1,1-Dichloroethene	74
Acetone	77
2-Propanol	80
Carbon Disulfide	81
3-Chloropropene	92
Methylene Chloride	70
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	102
Hexane	75
1,1-Dichloroethane	70
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	87
Tetrahydrofuran	78
Chloroform	78
1,1,1-Trichloroethane	77
Cyclohexane	92
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	87
Benzene	72
1,2-Dichloroethane	72
Heptane	92
Trichloroethene	79
1,2-Dichloropropane	70
1,4-Dioxane	78
Bromodichloromethane	93
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	71
Toluene	82
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	78
Tetrachloroethene	82
2-Hexanone	59 Q

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506215-07AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i060904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/05 02:11 PM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	83
Chlorobenzene	83
Ethyl Benzene	81
m,p-Xylene	82
o-Xylene	83
Styrene	100
Bromoform	120
Cumene	88
1,1,2,2-Tetrachloroethane	76
Propylbenzene	124
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	78
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	74
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506215-07B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 04:29 PM**	

Compound	%Recovery
Freon 12	99
Freon 114	95
Chloromethane	128
Vinyl Chloride	118
1,3-Butadiene	136
Bromomethane	107
Chloroethane	109
Freon 11	99
Ethanol	120
Freon 113	99
1,1-Dichloroethene	118
Acetone	119
2-Propanol	141 Q
Carbon Disulfide	122
3-Chloropropene	123
Methylene Chloride	136 Q
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	124
Hexane	134
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	128
Tetrahydrofuran	116
Chloroform	100
1,1,1-Trichloroethane	82
Cyclohexane	114
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	133
Benzene	87
1,2-Dichloroethane	96
Heptane	117
Trichloroethene	89
1,2-Dichloropropane	100
1,4-Dioxane	86
Bromodichloromethane	105
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	109
Toluene	95
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	92
Tetrachloroethene	95
2-Hexanone	85

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506215-07B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 04:29 PM**	

Compound	**%Recovery**
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	89
Chlorobenzene	98
Ethyl Benzene	94
m,p-Xylene	97
o-Xylene	95
Styrene	124
Bromoform	113
Cumene	101
1,1,2,2-Tetrachloroethane	93
Propylbenzene	146 Q
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506215-07BB

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 05:13 PM**	

Compound	%Recovery
Freon 12	96
Freon 114	92
Chloromethane	125
Vinyl Chloride	116
1,3-Butadiene	131
Bromomethane	105
Chloroethane	105
Freon 11	96
Ethanol	115
Freon 113	96
1,1-Dichloroethene	115
Acetone	117
2-Propanol	138
Carbon Disulfide	119
3-Chloropropene	120
Methylene Chloride	132 Q
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	122
Hexane	131
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	124
Tetrahydrofuran	113
Chloroform	97
1,1,1-Trichloroethane	80
Cyclohexane	112
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	129
Benzene	86
1,2-Dichloroethane	95
Heptane	117
Trichloroethene	88
1,2-Dichloropropane	98
1,4-Dioxane	85
Bromodichloromethane	103
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	107
Toluene	94
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	89
Tetrachloroethene	93
2-Hexanone	84

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506215-07BB

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1061005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/05 05:13 PM**	

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	86
Chlorobenzene	96
Ethyl Benzene	92
m,p-Xylene	96
o-Xylene	92
Styrene	120
Bromoform	110
Cumene	99
1,1,2,2-Tetrachloroethane	91
Propylbenzene	144 Q
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	83
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	100	70-130

0506511

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON-LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
SCOTT BRECHMER	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON, INC
PROJECT NAME: JPL SVE	PROJECT LOCATION: JPL-VE03	PROJECT NUMBER: 4-73803	LABORATORY PHONE: 916-985-1000	LABORATORY FAX: 916-985-1070	RECIPIENT NAME: TONY FORD
PROJECT CONTACT: MARCO MENDOZA	PROJECT PHONE NUMBER: 619-843-9968	PROJECT FAX: 626-296-0200	LABORATORY ADDRESS: 180 BLUE RAVINE RD., STE. B		ADDRESS: 22632 GOLDEN SPRINGS DR., STE. 270
PROJECT ADDRESS: 4800 OAK GROVE DR.	CITY, STATE AND ZIPCODE: PASADENA, CA 91109	CLIENT: BATTELLE	CITY, STATE AND ZIPCODE: FOLSOM, CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR, CA 91765
PROJECT MANAGER: TONY FORD	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14								Comments
01A	VE03-A-004-017	AIR	6/22/05	1102	NONE	1*	III	NORM	X								1* - 1L TEDLAR BAG SCRUBBER A
02A	VE03-EFF-004-018	↓	↓	1104	↓	↓	↓	↓	X								SCRUBBER EFFLUENT
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: M. MENDOZA

COURIER AND AIR BILL NUMBER: FED-EX: 8473 5404 3479

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	Laura Thomas AIC	6/23/05	1135

SAMPLE CONDITION UPON RECEIPT

CUSTODY SEAL INTACT?
Y N NONE TEMP

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0506511

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	06/23/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	06/28/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-A-004-017	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-004-018	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 06/29/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0506511

Two 1 Liter Tedlar Bag samples were received on June 23, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-A-004-017

Lab ID#: 0506511-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.64	2.5	3.2
Chloromethane	2.0	2.1	4.1	4.3
Chloroethane	0.50	6.9	1.3	18
Freon 11	0.50	18	2.8	99
Ethanol	2.0	10	3.8	20
Acetone	2.0	140	4.8	320
2-Propanol	2.0	39	4.9	96
Carbon Disulfide	0.50	4.2	1.6	13
Methylene Chloride	0.50	1.3	1.7	4.5
2-Butanone (Methyl Ethyl Ketone)	0.50	83	1.5	240
Tetrahydrofuran	0.50	2.1	1.5	6.1
Chloroform	0.50	2.7	2.4	13
Carbon Tetrachloride	0.50	0.75	3.1	4.7
Heptane	0.50	2.0	2.0	8.2
Trichloroethene	0.50	3.8	2.7	20
4-Methyl-2-pentanone	0.50	2.3	2.0	9.6
Toluene	0.50	1.6	1.9	6.1
Tetrachloroethene	0.50	0.63	3.4	4.3
2-Hexanone	2.0	7.0	8.2	28
m,p-Xylene	0.50	0.81	2.2	3.5

Client Sample ID: VE03-EFF-004-018

Lab ID#: 0506511-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	4.0	20	10	53
Freon 11	4.0	9.8	22	55
Ethanol	16	48	30	90
Acetone	16	720	38	1700
2-Propanol	16	130	39	320
Methylene Chloride	4.0	15	14	54
2-Butanone (Methyl Ethyl Ketone)	4.0	580	12	1700
1,2-Dichloropropane	4.0	8.3	18	38
4-Methyl-2-pentanone	4.0	34	16	140
2-Hexanone	16	33	66	140

AIR TOXICS LTD.

Client Sample ID: VE03-A-004-017

Lab ID#: 0506511-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062407**	**Date of Collection: 6/22/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 04:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.64	2.5	3.2
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	2.1	4.1	4.3
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	6.9	1.3	18
Freon 11	0.50	18	2.8	99
Ethanol	2.0	10	3.8	20
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	140	4.8	320
2-Propanol	2.0	39	4.9	96
Carbon Disulfide	0.50	4.2	1.6	13
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.3	1.7	4.5
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	83	1.5	240
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	2.1	1.5	6.1
Chloroform	0.50	2.7	2.4	13
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	0.75	3.1	4.7
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	2.0	2.0	8.2
Trichloroethene	0.50	3.8	2.7	20
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	2.3	2.0	9.6
Toluene	0.50	1.6	1.9	6.1
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.63	3.4	4.3
2-Hexanone	2.0	7.0	8.2	28

AIR TOXICS LTD.

Client Sample ID: VE03-A-004-017

Lab ID#: 0506511-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062407**	**Date of Collection:**	**6/22/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**6/24/05 04:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.81	2.2	3.5
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-004-018

Lab ID#: 0506511-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062408**	**Date of Collection:**	**6/22/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**6/24/05 05:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	4.0	Not Detected	20	Not Detected
Freon 114	4.0	Not Detected	28	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	4.0	Not Detected	10	Not Detected
1,3-Butadiene	4.0	Not Detected	8.8	Not Detected
Bromomethane	4.0	Not Detected	16	Not Detected
Chloroethane	4.0	20	10	53
Freon 11	4.0	9.8	22	55
Ethanol	16	48	30	90
Freon 113	4.0	Not Detected	31	Not Detected
1,1-Dichloroethene	4.0	Not Detected	16	Not Detected
Acetone	16	720	38	1700
2-Propanol	16	130	39	320
Carbon Disulfide	4.0	Not Detected	12	Not Detected
3-Chloropropene	16	Not Detected	50	Not Detected
Methylene Chloride	4.0	15	14	54
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Hexane	4.0	Not Detected	14	Not Detected
1,1-Dichloroethane	4.0	Not Detected	16	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	580	12	1700
cis-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Tetrahydrofuran	4.0	Not Detected	12	Not Detected
Chloroform	4.0	Not Detected	20	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected	22	Not Detected
Cyclohexane	4.0	Not Detected	14	Not Detected
Carbon Tetrachloride	4.0	Not Detected	25	Not Detected
2,2,4-Trimethylpentane	4.0	Not Detected	19	Not Detected
Benzene	4.0	Not Detected	13	Not Detected
1,2-Dichloroethane	4.0	Not Detected	16	Not Detected
Heptane	4.0	Not Detected	16	Not Detected
Trichloroethene	4.0	Not Detected	21	Not Detected
1,2-Dichloropropane	4.0	8.3	18	38
1,4-Dioxane	16	Not Detected	58	Not Detected
Bromodichloromethane	4.0	Not Detected	27	Not Detected
cis-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
4-Methyl-2-pentanone	4.0	34	16	140
Toluene	4.0	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected	22	Not Detected
Tetrachloroethene	4.0	Not Detected	27	Not Detected
2-Hexanone	16	33	66	140

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-004-018

Lab ID#: 0506511-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062408**	**Date of Collection: 6/22/05**	
Dil. Factor:	**8.00**	**Date of Analysis: 6/24/05 05:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	4.0	Not Detected	34	Not Detected
1,2-Dibromoethane (EDB)	4.0	Not Detected	31	Not Detected
Chlorobenzene	4.0	Not Detected	18	Not Detected
Ethyl Benzene	4.0	Not Detected	17	Not Detected
m,p-Xylene	4.0	Not Detected	17	Not Detected
o-Xylene	4.0	Not Detected	17	Not Detected
Styrene	4.0	Not Detected	17	Not Detected
Bromoform	4.0	Not Detected	41	Not Detected
Cumene	4.0	Not Detected	20	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected	27	Not Detected
Propylbenzene	4.0	Not Detected	20	Not Detected
4-Ethyltoluene	4.0	Not Detected	20	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,4-Dichlorobenzene	4.0	Not Detected	24	Not Detected
alpha-Chlorotoluene	4.0	Not Detected	21	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506511-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 03:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0506511-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 03:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506511-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 12:12 PM**	

Compound	%Recovery
Freon 12	95
Freon 114	104
Chloromethane	88
Vinyl Chloride	97
1,3-Butadiene	93
Bromomethane	114
Chloroethane	90
Freon 11	94
Ethanol	95
Freon 113	98
1,1-Dichloroethene	96
Acetone	90
2-Propanol	96
Carbon Disulfide	98
3-Chloropropene	96
Methylene Chloride	94
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	94
Hexane	96
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	97
Tetrahydrofuran	90
Chloroform	100
1,1,1-Trichloroethane	97
Cyclohexane	98
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	97
Benzene	90
1,2-Dichloroethane	100
Heptane	104
Trichloroethene	103
1,2-Dichloropropane	100
1,4-Dioxane	101
Bromodichloromethane	105
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	101
Toluene	95
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	102
Tetrachloroethene	104
2-Hexanone	102

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0506511-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 12:12 PM**	

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	104
Chlorobenzene	100
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	99
Styrene	101
Bromoform	109
Cumene	98
1,1,2,2-Tetrachloroethane	99
Propylbenzene	97
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506511-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 01:06 PM**	

Compound	%Recovery
Freon 12	93
Freon 114	102
Chloromethane	87
Vinyl Chloride	93
1,3-Butadiene	106
Bromomethane	115
Chloroethane	84
Freon 11	94
Ethanol	75
Freon 113	96
1,1-Dichloroethene	94
Acetone	86
2-Propanol	95
Carbon Disulfide	99
3-Chloropropene	83
Methylene Chloride	90
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	106
Hexane	93
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	106
Tetrahydrofuran	81
Chloroform	93
1,1,1-Trichloroethane	81
Cyclohexane	94
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	119
Benzene	78
1,2-Dichloroethane	86
Heptane	95
Trichloroethene	90
1,2-Dichloropropane	82
1,4-Dioxane	75
Bromodichloromethane	94
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	77
Toluene	88
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	92
Tetrachloroethene	96
2-Hexanone	63

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0506511-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 01:06 PM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	95
Chlorobenzene	94
Ethyl Benzene	93
m,p-Xylene	96
o-Xylene	93
Styrene	127
Bromoform	99
Cumene	96
1,1,2,2-Tetrachloroethane	93
Propylbenzene	136
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	73
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	116

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506511-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 02:21 PM**	

Compound	%Recovery
Freon 12	93
Freon 114	102
Chloromethane	86
Vinyl Chloride	92
1,3-Butadiene	107
Bromomethane	112
Chloroethane	82
Freon 11	93
Ethanol	74
Freon 113	96
1,1-Dichloroethene	95
Acetone	86
2-Propanol	95
Carbon Disulfide	99
3-Chloropropene	83
Methylene Chloride	89
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	105
Hexane	92
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	107
Tetrahydrofuran	81
Chloroform	93
1,1,1-Trichloroethane	82
Cyclohexane	95
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	119
Benzene	77
1,2-Dichloroethane	86
Heptane	95
Trichloroethene	90
1,2-Dichloropropane	82
1,4-Dioxane	76
Bromodichloromethane	94
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	76
Toluene	88
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	91
Tetrachloroethene	95
2-Hexanone	63

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0506511-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1062405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/24/05 02:21 PM**	

Compound	%Recovery
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	94
Chlorobenzene	93
Ethyl Benzene	92
m,p-Xylene	94
o-Xylene	91
Styrene	124
Bromoform	98
Cumene	94
1,1,2,2-Tetrachloroethane	92
Propylbenzene	135
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	71
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

0507109

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396 7662 • FAX (909) 806-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
SCOTT BREHMER	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL SVE	JPL-VE03	4-73803	916-985-1000	916-985-1070	TONY FORD

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
MARIO MENDOZA	619-843-9968	626-296-0200	180 BLUE RAVINE RD, STE. B	22632 GOLDEN SPRINGS DR, STE. 270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA, CA 91109	BATTELLE	FOLSOM, CA 95630	DIAMOND BAR, CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
TONY FORD	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14	Comments
01A	VE03-A-006-019	AIR	7/6/05	1124	NONE	1*	III	NORM	X	1* - 1L TEDLAR BAG SCREEN A
02A	VE03-EFF-006-020	↓	↓	1126	↓	↓	↓	↓	X	SCREEN EFFLUENT
3										
4										
5										
6										
7										
8										
9										
10										

CUSTODY SEAL INTACT? Y N NONE FOUND ✓

SAMPLES COLLECTED BY: M. MENDOZA	COURIER AND AIR BILL NUMBER: FED-EX 8621 1735 6513	COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
	[illegible]	7/7/05	1045	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0507109

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	07/07/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	07/13/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-A-006-019	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-006-020	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
06A	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman DATE: 07/13/05

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0507109

Two 1 Liter Tedlar Bag samples were received on July 07, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-A-006-019

Lab ID#: 0507109-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.67	2.5	3.3
Chloroethane	0.50	5.2	1.3	14
Freon 11	0.50	23	2.8	130
Ethanol	2.0	8.3	3.8	16
Acetone	2.0	120	4.8	290
2-Propanol	2.0	34	4.9	83
Carbon Disulfide	0.50	7.1	1.6	22
Methylene Chloride	0.50	1.3	1.7	4.5
Hexane	0.50	1.1	1.8	3.8
2-Butanone (Methyl Ethyl Ketone)	0.50	73	1.5	210
Chloroform	0.50	3.2	2.4	15
Cyclohexane	0.50	1.9	1.7	6.4
Carbon Tetrachloride	0.50	0.88	3.1	5.5
Heptane	0.50	1.6	2.0	6.5
Trichloroethene	0.50	5.3	2.7	28
4-Methyl-2-pentanone	0.50	2.0	2.0	8.4
Toluene	0.50	2.0	1.9	7.7
Tetrachloroethene	0.50	0.60	3.4	4.1
2-Hexanone	2.0	6.1	8.2	25
Ethyl Benzene	0.50	0.59	2.2	2.5
m,p-Xylene	0.50	1.8	2.2	7.8

Client Sample ID: VE03-EFF-006-020

Lab ID#: 0507109-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	4.0	7.7	8.3	16
Vinyl Chloride	1.0	1.4	2.6	3.5
1,3-Butadiene	1.0	1.1	2.2	2.5
Chloroethane	1.0	17	2.6	44
Freon 11	1.0	7.4	5.6	42
Ethanol	4.0	32	7.5	60
Acetone	4.0	780 E	9.5	1800 E
2-Propanol	4.0	140	9.8	350
Carbon Disulfide	1.0	6.8	3.1	21
Methylene Chloride	1.0	8.2	3.5	28
Hexane	1.0	1.3	3.5	4.6
1,1-Dichloroethane	1.0	2.7	4.0	11
2-Butanone (Methyl Ethyl Ketone)	1.0	650 E	2.9	1900 E
1,2-Dichloroethane	1.0	3.3	4.0	13

Client Sample ID: VE03-EFF-006-020

Lab ID#: 0507109-02A

Heptane	1.0	2.4	4.1	10
Trichloroethene	1.0	1.1	5.4	5.7
4-Methyl-2-pentanone	1.0	44	4.1	180
Toluene	1.0	1.8	3.8	6.6
2-Hexanone	4.0	43	16	180
Ethyl Benzene	1.0	2.6	4.3	11
m,p-Xylene	1.0	2.7	4.3	12

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Client Sample ID: VE03-A-006-019

Lab ID#: 0507109-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070808**	**Date of Collection: 7/6/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 02:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.67	2.5	3.3
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	5.2	1.3	14
Freon 11	0.50	23	2.8	130
Ethanol	2.0	8.3	3.8	16
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	120	4.8	290
2-Propanol	2.0	34	4.9	83
Carbon Disulfide	0.50	7.1	1.6	22
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.3	1.7	4.5
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	1.1	1.8	3.8
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	73	1.5	210
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	3.2	2.4	15
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	1.9	1.7	6.4
Carbon Tetrachloride	0.50	0.88	3.1	5.5
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	1.6	2.0	6.5
Trichloroethene	0.50	5.3	2.7	28
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	2.0	2.0	8.4
Toluene	0.50	2.0	1.9	7.7
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.60	3.4	4.1
2-Hexanone	2.0	6.1	8.2	25

AIR TOXICS LTD.

Client Sample ID: VE03-A-006-019

Lab ID#: 0507109-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070808**	**Date of Collection: 7/6/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 02:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	0.59	2.2	2.5
m,p-Xylene	0.50	1.8	2.2	7.8
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-006-020

Lab ID#: 0507109-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070809**	**Date of Collection: 7/6/05**	
Dil. Factor:	**2.00**	**Date of Analysis: 7/8/05 02:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	4.9	Not Detected
Freon 114	1.0	Not Detected	7.0	Not Detected
Chloromethane	4.0	7.7	8.3	16
Vinyl Chloride	1.0	1.4	2.6	3.5
1,3-Butadiene	1.0	1.1	2.2	2.5
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	17	2.6	44
Freon 11	1.0	7.4	5.6	42
Ethanol	4.0	32	7.5	60
Freon 113	1.0	Not Detected	7.7	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Acetone	4.0	780 E	9.5	1800 E
2-Propanol	4.0	140	9.8	350
Carbon Disulfide	1.0	6.8	3.1	21
3-Chloropropene	4.0	Not Detected	12	Not Detected
Methylene Chloride	1.0	8.2	3.5	28
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Hexane	1.0	1.3	3.5	4.6
1,1-Dichloroethane	1.0	2.7	4.0	11
2-Butanone (Methyl Ethyl Ketone)	1.0	650 E	2.9	1900 E
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	2.9	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.4	Not Detected
Cyclohexane	1.0	Not Detected	3.4	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	3.3	4.0	13
Heptane	1.0	2.4	4.1	10
Trichloroethene	1.0	1.1	5.4	5.7
1,2-Dichloropropane	1.0	Not Detected	4.6	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Bromodichloromethane	1.0	Not Detected	6.7	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.5	Not Detected
4-Methyl-2-pentanone	1.0	44	4.1	180
Toluene	1.0	1.8	3.8	6.6
trans-1,3-Dichloropropene	1.0	Not Detected	4.5	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.4	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
2-Hexanone	4.0	43	16	180

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-006-020

Lab ID#: 0507109-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070809**	**Date of Collection: 7/6/05**	
Dil. Factor:	**2.00**	**Date of Analysis: 7/8/05 02:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	1.0	Not Detected	8.5	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.7	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	2.6	4.3	11
m,p-Xylene	1.0	2.7	4.3	12
o-Xylene	1.0	Not Detected	4.3	Not Detected
Styrene	1.0	Not Detected	4.2	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	4.9	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
Propylbenzene	1.0	Not Detected	4.9	Not Detected
4-Ethyltoluene	1.0	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0507109-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 12:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 0507109-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 12:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0507109-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 09:01 AM**	

Compound	%Recovery
Freon 12	83
Freon 114	92
Chloromethane	86
Vinyl Chloride	86
1,3-Butadiene	82
Bromomethane	103
Chloroethane	70
Freon 11	81
Ethanol	88
Freon 113	89
1,1-Dichloroethene	83
Acetone	81
2-Propanol	86
Carbon Disulfide	86
3-Chloropropene	82
Methylene Chloride	83
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	83
Hexane	85
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	87
Tetrahydrofuran	85
Chloroform	90
1,1,1-Trichloroethane	85
Cyclohexane	89
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	88
Benzene	84
1,2-Dichloroethane	91
Heptane	96
Trichloroethene	97
1,2-Dichloropropane	94
1,4-Dioxane	93
Bromodichloromethane	96
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	93
Toluene	88
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	98
Tetrachloroethene	101
2-Hexanone	96

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0507109-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 09:01 AM**	

Compound	%Recovery
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	100
Chlorobenzene	96
Ethyl Benzene	95
m,p-Xylene	96
o-Xylene	93
Styrene	93
Bromoform	104
Cumene	92
1,1,2,2-Tetrachloroethane	93
Propylbenzene	90
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0507109-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 09:38 AM**	

Compound	%Recovery
Freon 12	83
Freon 114	92
Chloromethane	87
Vinyl Chloride	84
1,3-Butadiene	94
Bromomethane	104
Chloroethane	68 Q
Freon 11	80
Ethanol	66
Freon 113	87
1,1-Dichloroethene	82
Acetone	75
2-Propanol	85
Carbon Disulfide	87
3-Chloropropene	82
Methylene Chloride	82
Methyl tert-butyl ether	76
trans-1,2-Dichloroethene	94
Hexane	83
1,1-Dichloroethane	79
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	95
Tetrahydrofuran	76
Chloroform	84
1,1,1-Trichloroethane	73
Cyclohexane	86
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	104
Benzene	74
1,2-Dichloroethane	79
Heptane	92
Trichloroethene	86
1,2-Dichloropropane	79
1,4-Dioxane	75
Bromodichloromethane	89
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	70
Toluene	84
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	89
Tetrachloroethene	95
2-Hexanone	60

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0507109-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 09:38 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	92
Chlorobenzene	91
Ethyl Benzene	90
m,p-Xylene	92
o-Xylene	89
Styrene	119
Bromoform	95
Cumene	85
1,1,2,2-Tetrachloroethane	89
Propylbenzene	90
4-Ethyltoluene	72
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	64 Q
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0507109-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 11:17 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	95
Chloromethane	90
Vinyl Chloride	88
1,3-Butadiene	99
Bromomethane	111
Chloroethane	72
Freon 11	84
Ethanol	68
Freon 113	91
1,1-Dichloroethene	85
Acetone	78
2-Propanol	89
Carbon Disulfide	90
3-Chloropropene	85
Methylene Chloride	87
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	98
Hexane	87
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	85
cis-1,2-Dichloroethene	100
Tetrahydrofuran	80
Chloroform	88
1,1,1-Trichloroethane	76
Cyclohexane	89
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	109
Benzene	78
1,2-Dichloroethane	84
Heptane	96
Trichloroethene	90
1,2-Dichloropropane	83
1,4-Dioxane	79
Bromodichloromethane	93
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	75
Toluene	88
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	94
Tetrachloroethene	99
2-Hexanone	63

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0507109-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1070805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/8/05 11:17 AM**	

Compound	**%Recovery**
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	95
Ethyl Benzene	95
m,p-Xylene	97
o-Xylene	93
Styrene	125
Bromoform	100
Cumene	91
1,1,2,2-Tetrachloroethane	94
Propylbenzene	95
4-Ethyltoluene	76
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	69 Q
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	116
Hexachlorobutadiene	108

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

0507433

GEOFON INCORPORATED

22082 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR: SCOTT BREHMER	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: AIR TOXICS	LABORATORY CONTACT: JENNIFER MILLER	MAIL REPORT (COMPANY NAME): GEOFON INC.
PROJECT NAME: SPL SVE	PROJECT LOCATION: SPL - VE03	PROJECT NUMBER: 4-738 03	LABORATORY PHONE: 916-985-1000	LABORATORY FAX: 916-985-1070	RECIPIENT NAME: TONY FORD
PROJECT CONTACT: MARCO MENDOZA	PROJECT PHONE NUMBER: 619-843-9968	PROJECT FAX: 626-296-0200	LABORATORY ADDRESS: 180 BLUE RAVINE, STE. B		ADDRESS: 22632 GOLDEN SPRINGS DR. STE. 270
PROJECT ADDRESS: 4800 OAK GROVE DR.	CITY, STATE AND ZIPCODE: PASADENA, CA 91109	CLIENT: BATTELLE	CITY, STATE AND ZIPCODE: FOLSOM, CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR, CA 91765
PROJECT MANAGER: TONY FORD	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: TO-14								Comments
1A	VE03-A-008-021	AIR	7/2/05		NONE	1*	III	NORM	X								1* - 1L TEDLAR BAG SCREEN A
2A	VE03-EFF-008-022	↓	↓		↓	↓	↓	↓	X								SCREEN EFF
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: C. BIRDGDON

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	7/6	1000	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

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AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0507433

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	07/21/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	07/27/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-A-008-021	Modified TO-14A	Tedlar Bag
02A	VE03-Eff-008-022	Modified TO-14A	Tedlar Bag
02AA	VE03-Eff-008-022 Duplicate	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda J. Freeman DATE: 07/27/05

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0507433

Two 1 Liter Tedlar Bag samples were received on July 21, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-A-008-021

Lab ID#: 0507433-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.75	2.5	3.7
Chloroethane	0.50	2.3	1.3	6.0
Freon 11	0.50	30	2.8	170
Ethanol	2.0	6.5	3.8	12
Acetone	2.0	45	4.8	110
2-Propanol	2.0	22	4.9	53
Carbon Disulfide	0.50	7.4	1.6	23
Methylene Chloride	0.50	0.50	1.7	1.8
Hexane	0.50	0.66	1.8	2.3
2-Butanone (Methyl Ethyl Ketone)	0.50	20	1.5	58
Tetrahydrofuran	0.50	1.2	1.5	3.4
Chloroform	0.50	3.2	2.4	15
Cyclohexane	0.50	1.4	1.7	4.8
Carbon Tetrachloride	0.50	0.95	3.1	6.0
Trichloroethene	0.50	5.6	2.7	30
4-Methyl-2-pentanone	0.50	0.72	2.0	3.0
Toluene	0.50	1.9	1.9	7.2
Tetrachloroethene	0.50	0.57	3.4	3.9
2-Hexanone	2.0	2.1	8.2	8.5
m,p-Xylene	0.50	1.5	2.2	6.7

Client Sample ID: VE03-Eff-008-022

Lab ID#: 0507433-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.52	2.5	2.6
Chloroethane	0.50	3.3	1.3	8.7
Freon 11	0.50	6.1	2.8	34
Ethanol	2.0	17	3.8	33
1,1-Dichloroethene	0.50	0.66	2.0	2.6
Acetone	2.0	170	4.8	420
2-Propanol	2.0	44	4.9	110
Carbon Disulfide	0.50	6.9	1.6	21
Methylene Chloride	0.50	1.9	1.7	6.5
1,1-Dichloroethane	0.50	0.55	2.0	2.2
2-Butanone (Methyl Ethyl Ketone)	0.50	170	1.5	520
Tetrahydrofuran	0.50	1.5	1.5	4.5
Cyclohexane	0.50	0.95	1.7	3.3
1,2-Dichloroethane	0.50	0.90	2.0	3.6
Trichloroethene	0.50	1.0	2.7	5.4

Client Sample ID: VE03-Eff-008-022

Lab ID#: 0507433-02A

1,2-Dichloropropane	0.50	2.6	2.3	12
4-Methyl-2-pentanone	0.50	18	2.0	74
Toluene	0.50	1.9	1.9	7.3
2-Hexanone	2.0	21	8.2	87
Ethyl Benzene	0.50	1.4	2.2	6.3
m,p-Xylene	0.50	1.5	2.2	6.7
Propylbenzene	0.50	0.77	2.4	3.8

Client Sample ID: VE03-Eff-008-022 Duplicate

Lab ID#: 0507433-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.52	2.5	2.6
Chloroethane	0.50	3.4	1.3	9.0
Freon 11	0.50	6.2	2.8	35
Ethanol	2.0	18	3.8	34
Freon 113	0.50	0.60	3.8	4.6
1,1-Dichloroethene	0.50	0.66	2.0	2.6
Acetone	2.0	180	4.8	420
2-Propanol	2.0	44	4.9	110
Carbon Disulfide	0.50	6.9	1.6	22
Methylene Chloride	0.50	1.9	1.7	6.5
1,1-Dichloroethane	0.50	0.56	2.0	2.2
2-Butanone (Methyl Ethyl Ketone)	0.50	180	1.5	520
Tetrahydrofuran	0.50	1.4	1.5	4.1
Cyclohexane	0.50	0.97	1.7	3.3
1,2-Dichloroethane	0.50	0.91	2.0	3.7
Trichloroethene	0.50	1.0	2.7	5.6
1,2-Dichloropropane	0.50	2.7	2.3	13
4-Methyl-2-pentanone	0.50	18	2.0	76
Toluene	0.50	1.9	1.9	7.2
2-Hexanone	2.0	21	8.2	88
Ethyl Benzene	0.50	1.4	2.2	6.1
m,p-Xylene	0.50	1.3	2.2	5.6
Propylbenzene	0.50	0.76	2.4	3.7

AIR TOXICS LTD.

Client Sample ID: VE03-A-008-021

Lab ID#: 0507433-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072206**	**Date of Collection:**	**7/20/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**7/22/05 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.75	2.5	3.7
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	2.3	1.3	6.0
Freon 11	0.50	30	2.8	170
Ethanol	2.0	6.5	3.8	12
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	45	4.8	110
2-Propanol	2.0	22	4.9	53
Carbon Disulfide	0.50	7.4	1.6	23
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.50	1.7	1.8
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	0.66	1.8	2.3
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	20	1.5	58
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	1.2	1.5	3.4
Chloroform	0.50	3.2	2.4	15
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	1.4	1.7	4.8
Carbon Tetrachloride	0.50	0.95	3.1	6.0
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	5.6	2.7	30
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	0.72	2.0	3.0
Toluene	0.50	1.9	1.9	7.2
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.57	3.4	3.9
2-Hexanone	2.0	2.1	8.2	8.5

AIR TOXICS LTD.

Client Sample ID: VE03-A-008-021

Lab ID#: 0507433-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072206**	**Date of Collection:**	**7/20/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**7/22/05 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	1.5	2.2	6.7
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-Eff-008-022

Lab ID#: 0507433-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072207**	**Date of Collection: 7/20/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 05:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.52	2.5	2.6
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	3.3	1.3	8.7
Freon 11	0.50	6.1	2.8	34
Ethanol	2.0	17	3.8	33
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	0.66	2.0	2.6
Acetone	2.0	170	4.8	420
2-Propanol	2.0	44	4.9	110
Carbon Disulfide	0.50	6.9	1.6	21
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.9	1.7	6.5
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	0.55	2.0	2.2
2-Butanone (Methyl Ethyl Ketone)	0.50	170	1.5	520
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	1.5	1.5	4.5
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	0.95	1.7	3.3
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.90	2.0	3.6
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	1.0	2.7	5.4
1,2-Dichloropropane	0.50	2.6	2.3	12
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	18	2.0	74
Toluene	0.50	1.9	1.9	7.3
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	21	8.2	87

AIR TOXICS LTD.

Client Sample ID: VE03-Eff-008-022

Lab ID#: 0507433-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072207**	**Date of Collection: 7/20/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 05:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	1.4	2.2	6.3
m,p-Xylene	0.50	1.5	2.2	6.7
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.77	2.4	3.8
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-Eff-008-022 Duplicate

Lab ID#: 0507433-02AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072208**	**Date of Collection:**	**7/20/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**7/22/05 05:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.52	2.5	2.6
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	3.4	1.3	9.0
Freon 11	0.50	6.2	2.8	35
Ethanol	2.0	18	3.8	34
Freon 113	0.50	0.60	3.8	4.6
1,1-Dichloroethene	0.50	0.66	2.0	2.6
Acetone	2.0	180	4.8	420
2-Propanol	2.0	44	4.9	110
Carbon Disulfide	0.50	6.9	1.6	22
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.9	1.7	6.5
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	0.56	2.0	2.2
2-Butanone (Methyl Ethyl Ketone)	0.50	180	1.5	520
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	1.4	1.5	4.1
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	0.97	1.7	3.3
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.91	2.0	3.7
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	1.0	2.7	5.6
1,2-Dichloropropane	0.50	2.7	2.3	13
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	18	2.0	76
Toluene	0.50	1.9	1.9	7.2
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	21	8.2	88

AIR TOXICS LTD.

Client Sample ID: VE03-Eff-008-022 Duplicate

Lab ID#: 0507433-02AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072208**	**Date of Collection: 7/20/05**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 05:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	1.4	2.2	6.1
m,p-Xylene	0.50	1.3	2.2	5.6
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.76	2.4	3.7
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0507433-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 02:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0507433-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 02:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0507433-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 12:13 PM**	

Compound	%Recovery
Freon 12	104
Freon 114	105
Chloromethane	114
Vinyl Chloride	106
1,3-Butadiene	110
Bromomethane	106
Chloroethane	104
Freon 11	103
Ethanol	103
Freon 113	100
1,1-Dichloroethene	109
Acetone	98
2-Propanol	105
Carbon Disulfide	95
3-Chloropropene	102
Methylene Chloride	109
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	93
Hexane	98
1,1-Dichloroethane	109
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	112
Tetrahydrofuran	110
Chloroform	102
1,1,1-Trichloroethane	104
Cyclohexane	96
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	111
Benzene	96
1,2-Dichloroethane	113
Heptane	101
Trichloroethene	108
1,2-Dichloropropane	113
1,4-Dioxane	97
Bromodichloromethane	101
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	104
Toluene	105
trans-1,3-Dichloropropene	114
1,1,2-Trichloroethane	108
Tetrachloroethene	115
2-Hexanone	107

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0507433-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 12:13 PM**	

Compound	%Recovery
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	110
Chlorobenzene	108
Ethyl Benzene	109
m,p-Xylene	96
o-Xylene	106
Styrene	95
Bromoform	91
Cumene	104
1,1,2,2-Tetrachloroethane	104
Propylbenzene	101
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0507433-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 01:03 PM**	

Compound	%Recovery
Freon 12	95
Freon 114	97
Chloromethane	106
Vinyl Chloride	94
1,3-Butadiene	104
Bromomethane	98
Chloroethane	88
Freon 11	94
Ethanol	73
Freon 113	90
1,1-Dichloroethene	100
Acetone	89
2-Propanol	104
Carbon Disulfide	93
3-Chloropropene	118
Methylene Chloride	101
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	109
Hexane	96
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	113
Tetrahydrofuran	101
Chloroform	89
1,1,1-Trichloroethane	83
Cyclohexane	94
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	127
Benzene	79
1,2-Dichloroethane	92
Heptane	97
Trichloroethene	89
1,2-Dichloropropane	87
1,4-Dioxane	80
Bromodichloromethane	95
cis-1,3-Dichloropropene	95
4-Methyl-2-pentanone	81
Toluene	91
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	92
Tetrachloroethene	101
2-Hexanone	72

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0507433-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 01:03 PM**	

Compound	**%Recovery**
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	94
Chlorobenzene	94
Ethyl Benzene	96
m,p-Xylene	86
o-Xylene	94
Styrene	112
Bromoform	105
Cumene	95
1,1,2,2-Tetrachloroethane	92
Propylbenzene	99
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	71
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0507433-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 01:54 PM**	

Compound	%Recovery
Freon 12	93
Freon 114	95
Chloromethane	106
Vinyl Chloride	92
1,3-Butadiene	102
Bromomethane	96
Chloroethane	88
Freon 11	92
Ethanol	73
Freon 113	88
1,1-Dichloroethene	98
Acetone	88
2-Propanol	102
Carbon Disulfide	92
3-Chloropropene	115
Methylene Chloride	100
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	106
Hexane	94
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	110
Tetrahydrofuran	99
Chloroform	88
1,1,1-Trichloroethane	81
Cyclohexane	92
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	123
Benzene	79
1,2-Dichloroethane	92
Heptane	96
Trichloroethene	90
1,2-Dichloropropane	86
1,4-Dioxane	79
Bromodichloromethane	96
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	82
Toluene	92
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	92
Tetrachloroethene	100
2-Hexanone	72

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0507433-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i072204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/05 01:54 PM**	

Compound	%Recovery
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	95
Chlorobenzene	94
Ethyl Benzene	94
m,p-Xylene	85
o-Xylene	93
Styrene	111
Bromoform	105
Cumene	96
1,1,2,2-Tetrachloroethane	92
Propylbenzene	99
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	71
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

0507665

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
SCOTT BREHLMAN	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON, INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	REPORT NAME
JPL SVE	JPL - VE03	4-73503	916-985-1000	916-985-1070	TONY FORD

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
MARCO MENDOZA	619-883-9968	626-296-0200	180 BLUE RAVINE, STE. B	22632 GOLDEN SPRINGS DR. STE. 270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR.	PASADENA, CA 91109	BATTELLE	FOLSOM, CA 95630	DIAMOND BAR, CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
TONY FORD	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14							Comments
1A	VE03-B-009-B23	AIR	7/26/95	1240	NONE	1*	III	Norm	X							1* - 1L TEDLAR BAG SCREEN B
2A	VE03-EFF-009-024	↓	↓	1242	↓	↓	↓	↓	X							SCREEN EFF
3																
4																
5																
6																
7																
8																
9																
10																

CUSTODY SEAL INTACT?
Y N NONE PRESENT

SAMPLES COLLECTED BY:

COURIER AND AIR BILL NUMBER: FED-EX 8521 1735 6535

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]				
	Judy Geran	7/26/95	905	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0507665

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	07/30/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	08/05/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-009-023	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-009-024	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 08/05/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0507665

Two 1 Liter Tedlar Bag samples were received on July 30, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-009-023

Lab ID#: 0507665-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	40	67	83	140
Vinyl Chloride	10	19	26	48
Chloroethane	10	210	26	560
Freon 11	10	440	56	2500
Ethanol	40	390	75	740
Acetone	40	9200 E	95	22000 E
2-Propanol	40	1800	98	4500
Methylene Chloride	10	32	35	110
1,1-Dichloroethane	10	15	40	63
2-Butanone (Methyl Ethyl Ketone)	10	3400	29	9900
Tetrahydrofuran	10	81	29	240
Chloroform	10	31	49	150
Carbon Tetrachloride	10	22	63	140
Trichloroethene	10	37	54	200
1,2-Dichloropropane	10	19	46	90
4-Methyl-2-pentanone	10	100	41	430
2-Hexanone	40	74	160	300

Client Sample ID: VE03-EFF-009-024

Lab ID#: 0507665-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	16	17	33	36
Chloroethane	4.0	39	10	100
Freon 11	4.0	8.1	22	45
Ethanol	16	72	30	140
Acetone	16	1300	38	3200
2-Propanol	16	180	39	450
Methylene Chloride	4.0	13	14	46
1,1-Dichloroethane	4.0	4.3	16	17
2-Butanone (Methyl Ethyl Ketone)	4.0	970	12	2900
Tetrahydrofuran	4.0	4.4	12	13
1,2-Dichloroethane	4.0	4.4	16	18
1,2-Dichloropropane	4.0	14	18	65
4-Methyl-2-pentanone	4.0	65	16	270
1,1,2-Trichloroethane	4.0	5.7	22	31
2-Hexanone	16	62	66	250

AIR TOXICS LTD.

Client Sample ID: VE03-B-009-023

Lab ID#: 0507665-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073117**	**Date of Collection:**	**7/29/05**
Dil. Factor:	**20.0**	**Date of Analysis:**	**8/1/05 03:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	10	Not Detected	49	Not Detected
Freon 114	10	Not Detected	70	Not Detected
Chloromethane	40	67	83	140
Vinyl Chloride	10	19	26	48
1,3-Butadiene	10	Not Detected	22	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Chloroethane	10	210	26	560
Freon 11	10	440	56	2500
Ethanol	40	390	75	740
Freon 113	10	Not Detected	77	Not Detected
1,1-Dichloroethene	10	Not Detected	40	Not Detected
Acetone	40	9200 E	95	22000 E
2-Propanol	40	1800	98	4500
Carbon Disulfide	10	Not Detected	31	Not Detected
3-Chloropropene	40	Not Detected	120	Not Detected
Methylene Chloride	10	32	35	110
Methyl tert-butyl ether	10	Not Detected	36	Not Detected
trans-1,2-Dichloroethene	10	Not Detected	40	Not Detected
Hexane	10	Not Detected	35	Not Detected
1,1-Dichloroethane	10	15	40	63
2-Butanone (Methyl Ethyl Ketone)	10	3400	29	9900
cis-1,2-Dichloroethene	10	Not Detected	40	Not Detected
Tetrahydrofuran	10	81	29	240
Chloroform	10	31	49	150
1,1,1-Trichloroethane	10	Not Detected	54	Not Detected
Cyclohexane	10	Not Detected	34	Not Detected
Carbon Tetrachloride	10	22	63	140
2,2,4-Trimethylpentane	10	Not Detected	47	Not Detected
Benzene	10	Not Detected	32	Not Detected
1,2-Dichloroethane	10	Not Detected	40	Not Detected
Heptane	10	Not Detected	41	Not Detected
Trichloroethene	10	37	54	200
1,2-Dichloropropane	10	19	46	90
1,4-Dioxane	40	Not Detected	140	Not Detected
Bromodichloromethane	10	Not Detected	67	Not Detected
cis-1,3-Dichloropropene	10	Not Detected	45	Not Detected
4-Methyl-2-pentanone	10	100	41	430
Toluene	10	Not Detected	38	Not Detected
trans-1,3-Dichloropropene	10	Not Detected	45	Not Detected
1,1,2-Trichloroethane	10	Not Detected	54	Not Detected
Tetrachloroethene	10	Not Detected	68	Not Detected
2-Hexanone	40	74	160	300

AIR TOXICS LTD.

Client Sample ID: VE03-B-009-023

Lab ID#: 0507665-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073117**	**Date of Collection:**	**7/29/05**
Dil. Factor:	**20.0**	**Date of Analysis:**	**8/1/05 03:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	10	Not Detected	85	Not Detected
1,2-Dibromoethane (EDB)	10	Not Detected	77	Not Detected
Chlorobenzene	10	Not Detected	46	Not Detected
Ethyl Benzene	10	Not Detected	43	Not Detected
m,p-Xylene	10	Not Detected	43	Not Detected
o-Xylene	10	Not Detected	43	Not Detected
Styrene	10	Not Detected	42	Not Detected
Bromoform	10	Not Detected	100	Not Detected
Cumene	10	Not Detected	49	Not Detected
1,1,2,2-Tetrachloroethane	10	Not Detected	69	Not Detected
Propylbenzene	10	Not Detected	49	Not Detected
4-Ethyltoluene	10	Not Detected	49	Not Detected
1,3,5-Trimethylbenzene	10	Not Detected	49	Not Detected
1,2,4-Trimethylbenzene	10	Not Detected	49	Not Detected
1,3-Dichlorobenzene	10	Not Detected	60	Not Detected
1,4-Dichlorobenzene	10	Not Detected	60	Not Detected
alpha-Chlorotoluene	10	Not Detected	52	Not Detected
1,2-Dichlorobenzene	10	Not Detected	60	Not Detected
1,2,4-Trichlorobenzene	40	Not Detected	300	Not Detected
Hexachlorobutadiene	40	Not Detected	430	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-009-024

Lab ID#: 0507665-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073119**	**Date of Collection:**	**7/29/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**8/1/05 04:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	4.0	Not Detected	20	Not Detected
Freon 114	4.0	Not Detected	28	Not Detected
Chloromethane	16	17	33	36
Vinyl Chloride	4.0	Not Detected	10	Not Detected
1,3-Butadiene	4.0	Not Detected	8.8	Not Detected
Bromomethane	4.0	Not Detected	16	Not Detected
Chloroethane	4.0	39	10	100
Freon 11	4.0	8.1	22	45
Ethanol	16	72	30	140
Freon 113	4.0	Not Detected	31	Not Detected
1,1-Dichloroethene	4.0	Not Detected	16	Not Detected
Acetone	16	1300	38	3200
2-Propanol	16	180	39	450
Carbon Disulfide	4.0	Not Detected	12	Not Detected
3-Chloropropene	16	Not Detected	50	Not Detected
Methylene Chloride	4.0	13	14	46
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Hexane	4.0	Not Detected	14	Not Detected
1,1-Dichloroethane	4.0	4.3	16	17
2-Butanone (Methyl Ethyl Ketone)	4.0	970	12	2900
cis-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Tetrahydrofuran	4.0	4.4	12	13
Chloroform	4.0	Not Detected	20	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected	22	Not Detected
Cyclohexane	4.0	Not Detected	14	Not Detected
Carbon Tetrachloride	4.0	Not Detected	25	Not Detected
2,2,4-Trimethylpentane	4.0	Not Detected	19	Not Detected
Benzene	4.0	Not Detected	13	Not Detected
1,2-Dichloroethane	4.0	4.4	16	18
Heptane	4.0	Not Detected	16	Not Detected
Trichloroethene	4.0	Not Detected	21	Not Detected
1,2-Dichloropropane	4.0	14	18	65
1,4-Dioxane	16	Not Detected	58	Not Detected
Bromodichloromethane	4.0	Not Detected	27	Not Detected
cis-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
4-Methyl-2-pentanone	4.0	65	16	270
Toluene	4.0	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
1,1,2-Trichloroethane	4.0	5.7	22	31
Tetrachloroethene	4.0	Not Detected	27	Not Detected
2-Hexanone	16	62	66	250

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-009-024

Lab ID#: 0507665-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073119**	**Date of Collection:**	**7/29/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**8/1/05 04:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	4.0	Not Detected	34	Not Detected
1,2-Dibromoethane (EDB)	4.0	Not Detected	31	Not Detected
Chlorobenzene	4.0	Not Detected	18	Not Detected
Ethyl Benzene	4.0	Not Detected	17	Not Detected
m,p-Xylene	4.0	Not Detected	17	Not Detected
o-Xylene	4.0	Not Detected	17	Not Detected
Styrene	4.0	Not Detected	17	Not Detected
Bromoform	4.0	Not Detected	41	Not Detected
Cumene	4.0	Not Detected	20	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected	27	Not Detected
Propylbenzene	4.0	Not Detected	20	Not Detected
4-Ethyltoluene	4.0	Not Detected	20	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,4-Dichlorobenzene	4.0	Not Detected	24	Not Detected
alpha-Chlorotoluene	4.0	Not Detected	21	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0507665-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073116**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/05 02:08 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0507665-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073116**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/05 02:08 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0507665-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073113**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/31/05 11:34 PM**	

Compound	%Recovery
Freon 12	109
Freon 114	104
Chloromethane	99
Vinyl Chloride	91
1,3-Butadiene	88
Bromomethane	116
Chloroethane	94
Freon 11	111
Ethanol	85
Freon 113	96
1,1-Dichloroethene	102
Acetone	92
2-Propanol	90
Carbon Disulfide	95
3-Chloropropene	91
Methylene Chloride	97
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	97
Hexane	92
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	106
Tetrahydrofuran	108
Chloroform	108
1,1,1-Trichloroethane	99
Cyclohexane	94
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	97
Benzene	98
1,2-Dichloroethane	127
Heptane	105
Trichloroethene	114
1,2-Dichloropropane	106
1,4-Dioxane	96
Bromodichloromethane	114
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	97
Toluene	95
trans-1,3-Dichloropropene	125
1,1,2-Trichloroethane	122
Tetrachloroethene	122
2-Hexanone	110

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0507665-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073113**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/31/05 11:34 PM**	

Compound	%Recovery
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	118
Chlorobenzene	109
Ethyl Benzene	111
m,p-Xylene	106
o-Xylene	107
Styrene	90
Bromoform	124
Cumene	108
1,1,2,2-Tetrachloroethane	101
Propylbenzene	105
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0507665-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073114**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/05 12:21 AM**	

Compound	%Recovery
Freon 12	116
Freon 114	110
Chloromethane	106
Vinyl Chloride	100
1,3-Butadiene	110
Bromomethane	130
Chloroethane	101
Freon 11	117
Ethanol	69
Freon 113	105
1,1-Dichloroethene	110
Acetone	89
2-Propanol	101
Carbon Disulfide	107
3-Chloropropene	100
Methylene Chloride	109
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	122
Hexane	102
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	105
Tetrahydrofuran	110
Chloroform	108
1,1,1-Trichloroethane	91
Cyclohexane	98
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	130
Benzene	92
1,2-Dichloroethane	116
Heptane	107
Trichloroethene	106
1,2-Dichloropropane	95
1,4-Dioxane	81
Bromodichloromethane	111
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	80
Toluene	97
trans-1,3-Dichloropropene	135 Q
1,1,2-Trichloroethane	118
Tetrachloroethene	123
2-Hexanone	74

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0507665-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073114**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/05 12:21 AM**	

Compound	%Recovery
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	116
Chlorobenzene	110
Ethyl Benzene	110
m,p-Xylene	109
o-Xylene	108
Styrene	133 Q
Bromoform	122
Cumene	110
1,1,2,2-Tetrachloroethane	107
Propylbenzene	115
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	73
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	119
Hexachlorobutadiene	118

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0507665-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073115**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/05 01:13 AM**	

Compound	%Recovery
Freon 12	111
Freon 114	106
Chloromethane	104
Vinyl Chloride	97
1,3-Butadiene	109
Bromomethane	124
Chloroethane	95
Freon 11	112
Ethanol	66
Freon 113	101
1,1-Dichloroethene	107
Acetone	88
2-Propanol	99
Carbon Disulfide	103
3-Chloropropene	99
Methylene Chloride	106
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	118
Hexane	100
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	101
Tetrahydrofuran	107
Chloroform	104
1,1,1-Trichloroethane	86
Cyclohexane	94
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	126
Benzene	92
1,2-Dichloroethane	115
Heptane	103
Trichloroethene	104
1,2-Dichloropropane	93
1,4-Dioxane	80
Bromodichloromethane	107
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	77
Toluene	94
trans-1,3-Dichloropropene	131 Q
1,1,2-Trichloroethane	116
Tetrachloroethene	121
2-Hexanone	73

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0507665-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f073115**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/05 01:13 AM**	

Compound	%Recovery
Dibromochloromethane	120
1,2-Dibromoethane (EDB)	112
Chlorobenzene	107
Ethyl Benzene	108
m,p-Xylene	105
o-Xylene	104
Styrene	129
Bromoform	116
Cumene	104
1,1,2,2-Tetrachloroethane	102
Propylbenzene	111
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	71
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	114

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	101	70-130

0508035

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR: SCOTT BRENNEMAN	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: AIR TOXICS	LABORATORY CONTACT: JENNIFER MILLER	MAIL REPORT (COMPANY NAME): GEOFON, INC
PROJECT NAME: JPL SVE	PROJECT LOCATION: JPL-VE03	PROJECT NUMBER: 4-73803	LABORATORY PHONE: 916-985-1000	LABORATORY FAX: 916-985-1070	RECIPIENT NAME: TONY FORD
PROJECT CONTACT: MARIO MENDOZA	PROJECT PHONE NUMBER: 619-843-9968	PROJECT FAX: 626-296-0200	LABORATORY ADDRESS: 180 BLUE RAVINE, STE B		ADDRESS: 22632 GOLDEN SPRINGS DR, STE 270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA, CA 91109	CLIENT: BATTELLE	CITY, STATE AND ZIPCODE: FOLSOM, CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR, CA 91765
PROJECT MANAGER: TONY FORD	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T.	Analyses: Tony							Comments
01A	VE03-B-010-025	AIR	8/1/05	658	NONE	1*	III	NORM	X							1* - 1L TEDLAR BAG SCREEN B
02A	VE03-EFF-010-026	↓	↓	658	↓	↓	↓	↓	X							SCREEN EFFLUENT
3																
4																
5																
6																
7																
8																
9																
10																

SAMPLES COLLECTED BY: MARIO MENDOZA

COURIER AND AIR BILL NUMBER: FED-EX : 8521 1735 6557

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	Lawan Thomas ATL	8/2/05	1015

SAMPLE'S CONDITION UPON RECEIPT:

CUSTODY SEAL INTACT
Y N NONE TEMP

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0508035

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	08/02/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	08/08/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-010-025	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-010-026	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman DATE: 08/08/05

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0508035

Two 1 Liter Tedlar Bag samples were received on August 02, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-010-025

Lab ID#: 0508035-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	12	35	33	92
Freon 11	12	200	70	1100
Ethanol	50	110	94	200
Acetone	50	2600	120	6300
2-Propanol	50	470	120	1100
2-Butanone (Methyl Ethyl Ketone)	12	1000	37	3000
Tetrahydrofuran	12	13	37	39
Chloroform	12	20	61	97
Trichloroethene	12	31	67	170
4-Methyl-2-pentanone	12	33	51	130

Client Sample ID: VE03-EFF-010-026

Lab ID#: 0508035-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	0.50	2.0	1.3	5.4
Freon 11	0.50	4.3	2.8	24
Ethanol	2.0	3.5	3.8	6.5
1,1-Dichloroethene	0.50	0.61	2.0	2.4
Acetone	2.0	170	4.8	400
2-Propanol	2.0	35	4.9	86
Carbon Disulfide	0.50	6.8	1.6	21
Methylene Chloride	0.50	1.5	1.7	5.3
Hexane	0.50	0.86	1.8	3.0
2-Butanone (Methyl Ethyl Ketone)	0.50	160	1.5	480
Cyclohexane	0.50	2.7	1.7	9.3
1,2-Dichloroethane	0.50	0.80	2.0	3.2
Trichloroethene	0.50	0.79	2.7	4.2
4-Methyl-2-pentanone	0.50	12	2.0	50
Toluene	0.50	2.5	1.9	9.6
1,1,2-Trichloroethane	0.50	1.0	2.7	5.6
2-Hexanone	2.0	16	8.2	64
Ethyl Benzene	0.50	1.4	2.2	6.3
m,p-Xylene	0.50	1.6	2.2	6.7

AIR TOXICS LTD.

Client Sample ID: VE03-B-010-025

Lab ID#: 0508035-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080210**	**Date of Collection:**	**8/1/05**
Dil. Factor:	**25.0**	**Date of Analysis:**	**8/2/05 06:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	12	Not Detected	62	Not Detected
Freon 114	12	Not Detected	87	Not Detected
Chloromethane	50	Not Detected	100	Not Detected
Vinyl Chloride	12	Not Detected	32	Not Detected
1,3-Butadiene	12	Not Detected	28	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	12	35	33	92
Freon 11	12	200	70	1100
Ethanol	50	110	94	200
Freon 113	12	Not Detected	96	Not Detected
1,1-Dichloroethene	12	Not Detected	50	Not Detected
Acetone	50	2600	120	6300
2-Propanol	50	470	120	1100
Carbon Disulfide	12	Not Detected	39	Not Detected
3-Chloropropene	50	Not Detected	160	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	12	Not Detected	45	Not Detected
trans-1,2-Dichloroethene	12	Not Detected	50	Not Detected
Hexane	12	Not Detected	44	Not Detected
1,1-Dichloroethane	12	Not Detected	50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	1000	37	3000
cis-1,2-Dichloroethene	12	Not Detected	50	Not Detected
Tetrahydrofuran	12	13	37	39
Chloroform	12	20	61	97
1,1,1-Trichloroethane	12	Not Detected	68	Not Detected
Cyclohexane	12	Not Detected	43	Not Detected
Carbon Tetrachloride	12	Not Detected	79	Not Detected
2,2,4-Trimethylpentane	12	Not Detected	58	Not Detected
Benzene	12	Not Detected	40	Not Detected
1,2-Dichloroethane	12	Not Detected	50	Not Detected
Heptane	12	Not Detected	51	Not Detected
Trichloroethene	12	31	67	170
1,2-Dichloropropane	12	Not Detected	58	Not Detected
1,4-Dioxane	50	Not Detected	180	Not Detected
Bromodichloromethane	12	Not Detected	84	Not Detected
cis-1,3-Dichloropropene	12	Not Detected	57	Not Detected
4-Methyl-2-pentanone	12	33	51	130
Toluene	12	Not Detected	47	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	57	Not Detected
1,1,2-Trichloroethane	12	Not Detected	68	Not Detected
Tetrachloroethene	12	Not Detected	85	Not Detected
2-Hexanone	50	Not Detected	200	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-010-025

Lab ID#: 0508035-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080210**	**Date of Collection: 8/1/05**	
Dil. Factor:	**25.0**	**Date of Analysis: 8/2/05 06:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	12	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	12	Not Detected	96	Not Detected
Chlorobenzene	12	Not Detected	58	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
Styrene	12	Not Detected	53	Not Detected
Bromoform	12	Not Detected	130	Not Detected
Cumene	12	Not Detected	61	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	86	Not Detected
Propylbenzene	12	Not Detected	61	Not Detected
4-Ethyltoluene	12	Not Detected	61	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	61	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	61	Not Detected
1,3-Dichlorobenzene	12	Not Detected	75	Not Detected
1,4-Dichlorobenzene	12	Not Detected	75	Not Detected
alpha-Chlorotoluene	12	Not Detected	65	Not Detected
1,2-Dichlorobenzene	12	Not Detected	75	Not Detected
1,2,4-Trichlorobenzene	50	Not Detected	370	Not Detected
Hexachlorobutadiene	50	Not Detected	530	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-010-026

Lab ID#: 0508035-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080209**	**Date of Collection:**	**8/1/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**8/2/05 05:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	2.0	1.3	5.4
Freon 11	0.50	4.3	2.8	24
Ethanol	2.0	3.5	3.8	6.5
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	0.61	2.0	2.4
Acetone	2.0	170	4.8	400
2-Propanol	2.0	35	4.9	86
Carbon Disulfide	0.50	6.8	1.6	21
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	1.5	1.7	5.3
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	0.86	1.8	3.0
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	160	1.5	480
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	2.7	1.7	9.3
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.80	2.0	3.2
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	0.79	2.7	4.2
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	12	2.0	50
Toluene	0.50	2.5	1.9	9.6
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	1.0	2.7	5.6
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	16	8.2	64

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-010-026

Lab ID#: 0508035-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080209**	**Date of Collection:**	**8/1/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**8/2/05 05:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	1.4	2.2	6.3
m,p-Xylene	0.50	1.6	2.2	6.7
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	82	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0508035-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 01:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0508035-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 01:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508035-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 09:36 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	104
Chloromethane	103
Vinyl Chloride	97
1,3-Butadiene	95
Bromomethane	116
Chloroethane	102
Freon 11	106
Ethanol	100
Freon 113	98
1,1-Dichloroethene	106
Acetone	100
2-Propanol	101
Carbon Disulfide	100
3-Chloropropene	96
Methylene Chloride	104
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	100
Hexane	100
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	107
Tetrahydrofuran	116
Chloroform	105
1,1,1-Trichloroethane	97
Cyclohexane	95
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	101
Benzene	99
1,2-Dichloroethane	124
Heptane	109
Trichloroethene	113
1,2-Dichloropropane	108
1,4-Dioxane	96
Bromodichloromethane	113
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	101
Toluene	97
trans-1,3-Dichloropropene	124
1,1,2-Trichloroethane	119
Tetrachloroethene	124
2-Hexanone	112

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508035-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 09:36 AM**	

Compound	%Recovery
Dibromochloromethane	123
1,2-Dibromoethane (EDB)	117
Chlorobenzene	108
Ethyl Benzene	109
m,p-Xylene	106
o-Xylene	106
Styrene	90
Bromoform	124
Cumene	108
1,1,2,2-Tetrachloroethane	101
Propylbenzene	105
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508035-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 11:29 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	106
Chloromethane	106
Vinyl Chloride	98
1,3-Butadiene	111
Bromomethane	120
Chloroethane	100
Freon 11	112
Ethanol	94
Freon 113	103
1,1-Dichloroethene	108
Acetone	102
2-Propanol	130
Carbon Disulfide	104
3-Chloropropene	103
Methylene Chloride	108
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	119
Hexane	103
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	110
Tetrahydrofuran	119
Chloroform	104
1,1,1-Trichloroethane	89
Cyclohexane	97
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	129
Benzene	92
1,2-Dichloroethane	113
Heptane	103
Trichloroethene	105
1,2-Dichloropropane	95
1,4-Dioxane	103
Bromodichloromethane	109
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	96
Toluene	98
trans-1,3-Dichloropropene	136 Q
1,1,2-Trichloroethane	120
Tetrachloroethene	126
2-Hexanone	98

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508035-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 11:29 AM**	

Compound	**%Recovery**
Dibromochloromethane	125
1,2-Dibromoethane (EDB)	119
Chlorobenzene	111
Ethyl Benzene	112
m,p-Xylene	110
o-Xylene	112
Styrene	138 Q
Bromoform	126
Cumene	108
1,1,2,2-Tetrachloroethane	110
Propylbenzene	113
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	80
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	128
Hexachlorobutadiene	124

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508035-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 12:17 PM**	

Compound	%Recovery
Freon 12	108
Freon 114	104
Chloromethane	103
Vinyl Chloride	97
1,3-Butadiene	111
Bromomethane	118
Chloroethane	100
Freon 11	108
Ethanol	95
Freon 113	100
1,1-Dichloroethene	106
Acetone	101
2-Propanol	128
Carbon Disulfide	103
3-Chloropropene	101
Methylene Chloride	106
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	117
Hexane	102
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	107
Tetrahydrofuran	118
Chloroform	103
1,1,1-Trichloroethane	86
Cyclohexane	94
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	126
Benzene	92
1,2-Dichloroethane	112
Heptane	104
Trichloroethene	105
1,2-Dichloropropane	95
1,4-Dioxane	104
Bromodichloromethane	108
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	134 Q
1,1,2-Trichloroethane	118
Tetrachloroethene	124
2-Hexanone	98

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508035-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/2/05 12:17 PM**	

Compound	**%Recovery**
Dibromochloromethane	123
1,2-Dibromoethane (EDB)	117
Chlorobenzene	110
Ethyl Benzene	112
m,p-Xylene	110
o-Xylene	109
Styrene	138 Q
Bromoform	125
Cumene	107
1,1,2,2-Tetrachloroethane	110
Propylbenzene	112
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	80
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	134 Q
Hexachlorobutadiene	126

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	102	70-130

0508057

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
MARCO MENDOZA	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON, INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL SVE	JPL - VE03	4-73803	916-985-1000	916-985-1070	TONY FORD

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
MARCO MENDOZA	619-843-9968	626-296-0200	180 BLUE RAVINE RD, STE. B	22632 GOLDEN SPRINGS DR, STE 270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA, CA 91109	BATTELLE	FOLSOM, CA 95630	DIAMOND BAR, CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
TONY FORD	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14								Comments
01A 1	VE03-B-010-027	AIR	8/2/05	700	NONE	1*	III	NORM	X								1* - 1L TEDLAR BAG SCREEN B
02A 2	VE03-EFF-010-028	↓	↓	702	↓	↓	↓	↓	X								SCREEN EFFLUENT
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: MARCO MENDOZA

COURIER AND AIR BILL NUMBER: FED EX: 8521 1735 6546

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	Lamont Thomas ATL	8/3/05	1000	CUSTODY SEAL INTACT? Y N NOT USED

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0508057

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	08/03/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	08/08/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-010-027	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-010-028	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 08/09/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0508057

Two 1 Liter Tedlar Bag samples were received on August 03, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-010-027

Lab ID#: 0508057-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	20	94	53	250
Freon 11	20	200	110	1100
Ethanol	80	150	150	290
Acetone	80	4000	190	9600
2-Propanol	80	760	200	1900
2-Butanone (Methyl Ethyl Ketone)	20	1300	59	3900
Trichloroethene	20	27	110	140
4-Methyl-2-pentanone	20	37	82	150

Client Sample ID: VE03-EFF-010-028

Lab ID#: 0508057-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	2.0	12	5.3	31
Freon 11	2.0	4.2	11	24
Ethanol	8.0	31	15	58
Acetone	8.0	550	19	1300
2-Propanol	8.0	97	20	240
Carbon Disulfide	2.0	6.4	6.2	20
Methylene Chloride	2.0	5.8	6.9	20
2-Butanone (Methyl Ethyl Ketone)	2.0	430	5.9	1300
Cyclohexane	2.0	2.5	6.9	8.7
1,2-Dichloroethane	2.0	2.1	8.1	8.4
1,2-Dichloropropane	2.0	5.9	9.2	27
4-Methyl-2-pentanone	2.0	30	8.2	120
1,1,2-Trichloroethane	2.0	2.6	11	14
2-Hexanone	8.0	30	33	120

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Client Sample ID: VE03-B-010-027

Lab ID#: 0508057-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080310**	**Date of Collection:**	**8/2/05**
Dil. Factor:	**40.0**	**Date of Analysis:**	**8/3/05 06:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	20	Not Detected	99	Not Detected
Freon 114	20	Not Detected	140	Not Detected
Chloromethane	80	Not Detected	160	Not Detected
Vinyl Chloride	20	Not Detected	51	Not Detected
1,3-Butadiene	20	Not Detected	44	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	94	53	250
Freon 11	20	200	110	1100
Ethanol	80	150	150	290
Freon 113	20	Not Detected	150	Not Detected
1,1-Dichloroethene	20	Not Detected	79	Not Detected
Acetone	80	4000	190	9600
2-Propanol	80	760	200	1900
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	80	Not Detected	250	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	20	Not Detected	72	Not Detected
trans-1,2-Dichloroethene	20	Not Detected	79	Not Detected
Hexane	20	Not Detected	70	Not Detected
1,1-Dichloroethane	20	Not Detected	81	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	1300	59	3900
cis-1,2-Dichloroethene	20	Not Detected	79	Not Detected
Tetrahydrofuran	20	Not Detected	59	Not Detected
Chloroform	20	Not Detected	98	Not Detected
1,1,1-Trichloroethane	20	Not Detected	110	Not Detected
Cyclohexane	20	Not Detected	69	Not Detected
Carbon Tetrachloride	20	Not Detected	120	Not Detected
2,2,4-Trimethylpentane	20	Not Detected	93	Not Detected
Benzene	20	Not Detected	64	Not Detected
1,2-Dichloroethane	20	Not Detected	81	Not Detected
Heptane	20	Not Detected	82	Not Detected
Trichloroethene	20	27	110	140
1,2-Dichloropropane	20	Not Detected	92	Not Detected
1,4-Dioxane	80	Not Detected	290	Not Detected
Bromodichloromethane	20	Not Detected	130	Not Detected
cis-1,3-Dichloropropene	20	Not Detected	91	Not Detected
4-Methyl-2-pentanone	20	37	82	150
Toluene	20	Not Detected	75	Not Detected
trans-1,3-Dichloropropene	20	Not Detected	91	Not Detected
1,1,2-Trichloroethane	20	Not Detected	110	Not Detected
Tetrachloroethene	20	Not Detected	140	Not Detected
2-Hexanone	80	Not Detected	330	Not Detected

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Client Sample ID: VE03-B-010-027

Lab ID#: 0508057-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080310**	**Date of Collection:**	**8/2/05**
Dil. Factor:	**40.0**	**Date of Analysis:**	**8/3/05 06:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	20	Not Detected	170	Not Detected
1,2-Dibromoethane (EDB)	20	Not Detected	150	Not Detected
Chlorobenzene	20	Not Detected	92	Not Detected
Ethyl Benzene	20	Not Detected	87	Not Detected
m,p-Xylene	20	Not Detected	87	Not Detected
o-Xylene	20	Not Detected	87	Not Detected
Styrene	20	Not Detected	85	Not Detected
Bromoform	20	Not Detected	210	Not Detected
Cumene	20	Not Detected	98	Not Detected
1,1,2,2-Tetrachloroethane	20	Not Detected	140	Not Detected
Propylbenzene	20	Not Detected	98	Not Detected
4-Ethyltoluene	20	Not Detected	98	Not Detected
1,3,5-Trimethylbenzene	20	Not Detected	98	Not Detected
1,2,4-Trimethylbenzene	20	Not Detected	98	Not Detected
1,3-Dichlorobenzene	20	Not Detected	120	Not Detected
1,4-Dichlorobenzene	20	Not Detected	120	Not Detected
alpha-Chlorotoluene	20	Not Detected	100	Not Detected
1,2-Dichlorobenzene	20	Not Detected	120	Not Detected
1,2,4-Trichlorobenzene	80	Not Detected	590	Not Detected
Hexachlorobutadiene	80	Not Detected	850	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-010-028

Lab ID#: 0508057-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080311**	**Date of Collection:**	**8/2/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**8/3/05 07:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.0	Not Detected	9.9	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	2.0	12	5.3	31
Freon 11	2.0	4.2	11	24
Ethanol	8.0	31	15	58
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Acetone	8.0	550	19	1300
2-Propanol	8.0	97	20	240
Carbon Disulfide	2.0	6.4	6.2	20
3-Chloropropene	8.0	Not Detected	25	Not Detected
Methylene Chloride	2.0	5.8	6.9	20
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Hexane	2.0	Not Detected	7.0	Not Detected
1,1-Dichloroethane	2.0	Not Detected	8.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	430	5.9	1300
cis-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.9	Not Detected
Chloroform	2.0	Not Detected	9.8	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	2.5	6.9	8.7
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.3	Not Detected
Benzene	2.0	Not Detected	6.4	Not Detected
1,2-Dichloroethane	2.0	2.1	8.1	8.4
Heptane	2.0	Not Detected	8.2	Not Detected
Trichloroethene	2.0	Not Detected	11	Not Detected
1,2-Dichloropropane	2.0	5.9	9.2	27
1,4-Dioxane	8.0	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
4-Methyl-2-pentanone	2.0	30	8.2	120
Toluene	2.0	Not Detected	7.5	Not Detected
trans-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
1,1,2-Trichloroethane	2.0	2.6	11	14
Tetrachloroethene	2.0	Not Detected	14	Not Detected
2-Hexanone	8.0	30	33	120

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-010-028

Lab ID#: 0508057-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080311**	**Date of Collection:**	**8/2/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**8/3/05 07:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.2	Not Detected
Ethyl Benzene	2.0	Not Detected	8.7	Not Detected
m,p-Xylene	2.0	Not Detected	8.7	Not Detected
o-Xylene	2.0	Not Detected	8.7	Not Detected
Styrene	2.0	Not Detected	8.5	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
Cumene	2.0	Not Detected	9.8	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.8	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.0	Not Detected	59	Not Detected
Hexachlorobutadiene	8.0	Not Detected	85	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 0508057-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 01:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 0508057-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 01:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508057-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 09:33 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	103
Chloromethane	104
Vinyl Chloride	96
1,3-Butadiene	95
Bromomethane	115
Chloroethane	100
Freon 11	105
Ethanol	98
Freon 113	98
1,1-Dichloroethene	105
Acetone	100
2-Propanol	100
Carbon Disulfide	99
3-Chloropropene	95
Methylene Chloride	104
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	100
Hexane	100
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	106
Tetrahydrofuran	115
Chloroform	104
1,1,1-Trichloroethane	95
Cyclohexane	92
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	100
Benzene	98
1,2-Dichloroethane	125
Heptane	107
Trichloroethene	113
1,2-Dichloropropane	109
1,4-Dioxane	93
Bromodichloromethane	111
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	98
Toluene	95
trans-1,3-Dichloropropene	125
1,1,2-Trichloroethane	121
Tetrachloroethene	125
2-Hexanone	115

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508057-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 09:33 AM**	

Compound	**%Recovery**
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	118
Chlorobenzene	109
Ethyl Benzene	108
m,p-Xylene	106
o-Xylene	107
Styrene	90
Bromoform	125
Cumene	108
1,1,2,2-Tetrachloroethane	102
Propylbenzene	106
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	115

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508057-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 11:19 AM**	

Compound	%Recovery
Freon 12	110
Freon 114	105
Chloromethane	106
Vinyl Chloride	99
1,3-Butadiene	112
Bromomethane	123
Chloroethane	101
Freon 11	110
Ethanol	97
Freon 113	102
1,1-Dichloroethene	108
Acetone	102
2-Propanol	131
Carbon Disulfide	104
3-Chloropropene	101
Methylene Chloride	109
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	119
Hexane	104
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	102
Tetrahydrofuran	120
Chloroform	104
1,1,1-Trichloroethane	87
Cyclohexane	96
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	128
Benzene	92
1,2-Dichloroethane	113
Heptane	103
Trichloroethene	104
1,2-Dichloropropane	95
1,4-Dioxane	102
Bromodichloromethane	108
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	134 Q
1,1,2-Trichloroethane	116
Tetrachloroethene	124
2-Hexanone	97

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508057-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 11:19 AM**	

Compound	**%Recovery**
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	115
Chlorobenzene	109
Ethyl Benzene	110
m,p-Xylene	108
o-Xylene	108
Styrene	136 Q
Bromoform	123
Cumene	106
1,1,2,2-Tetrachloroethane	108
Propylbenzene	111
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	79
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	120

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508057-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 12:21 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	108
Chloromethane	109
Vinyl Chloride	100
1,3-Butadiene	115
Bromomethane	124
Chloroethane	101
Freon 11	110
Ethanol	98
Freon 113	103
1,1-Dichloroethene	109
Acetone	104
2-Propanol	133
Carbon Disulfide	106
3-Chloropropene	100
Methylene Chloride	110
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	120
Hexane	105
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	104
Tetrahydrofuran	122
Chloroform	104
1,1,1-Trichloroethane	87
Cyclohexane	96
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	129
Benzene	93
1,2-Dichloroethane	114
Heptane	105
Trichloroethene	106
1,2-Dichloropropane	96
1,4-Dioxane	102
Bromodichloromethane	108
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	138 Q
1,1,2-Trichloroethane	120
Tetrachloroethene	125
2-Hexanone	100

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508057-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/05 12:21 PM**	

Compound	**%Recovery**
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	119
Chlorobenzene	110
Ethyl Benzene	111
m,p-Xylene	109
o-Xylene	110
Styrene	139 Q
Bromoform	124
Cumene	108
1,1,2,2-Tetrachloroethane	111
Propylbenzene	113
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	81
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	131 Q
Hexachlorobutadiene	126

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	103	70-130

0508101

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
MARCO MENDOZA	909-396-7662	909-396-1455	AIRTOXICS	JENNIFER MILLER	GEOFON, INC.
PROJECT NAME: JPL SVE	PROJECT LOCATION JPL- VE03	PROJECT NUMBER 4-73803	LABORATORY PHONE 916-985-1000	LABORATORY FAX 916-985-1070	RECIPIENT NAME TONY FORD
PROJECT CONTACT MARCO MENDOZA	PROJECT PHONE NUMBER 619-843-9968	PROJECT FAX 626-296-0200	LABORATORY ADDRESS 180 BLUE RAVINE RD, SUITE B		ADDRESS 22632 GOLDEN SPRINGS DR, STE. 270
PROJECT ADDRESS 4800 OAK GROVE DR.	CITY, STATE AND ZIPCODE PASADENA CA 91109	CLIENT BATTELLE	CITY, STATE AND ZIPCODE FOLSOM, CA 95630		CITY, STATE AND ZIPCODE DIAMOND BAR, CA 91765
PROJECT MANAGER TONY FORD	PROJECT MANAGER'S PHONE 909-396-7662	PROJECT MANAGER'S FAX 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14								Comments
01A	VE03-B-010-029	AIR	8/3/05	712	NONE	1*	III	NORM	X								1* - 1L TEDLAR BAG SCREEN B
02A	VE03-EFF-010-030	↓	↓	714	↓	↓	↓	↓	X								SCREEN EFFLUENT
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: MARCO M

COURIER AND AIR BILL NUMBER: FED EX : 8473 5404 3435

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]				
	Lamah Thomas OAL	8/4/05	1000	CUSTODY SEAL INTACT? Y N NONE TEMP

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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Hours 8:00 A.M to 6:00 P.M. Pacific

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0508101

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	08/04/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	08/10/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-010-029	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-010-030	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 08/10/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0508101

Two 1 Liter Tedlar Bag samples were received on August 04, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-010-029

Lab ID#: 0508101-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloromethane	33	34	69	71
Vinyl Chloride	8.4	12	21	30
Chloroethane	8.4	100	22	260
Freon 11	8.4	200	47	1100
Ethanol	33	170	63	330
Acetone	33	4000 E	79	9600 E
2-Propanol	33	790	82	1900
2-Butanone (Methyl Ethyl Ketone)	8.4	1400	25	4000
Chloroform	8.4	18	41	87
Carbon Tetrachloride	8.4	11	52	72
Trichloroethene	8.4	25	45	140
4-Methyl-2-pentanone	8.4	40	34	160

Client Sample ID: VE03-EFF-010-030

Lab ID#: 0508101-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	3.3	12	8.8	32
Freon 11	3.3	5.7	19	32
Ethanol	13	34	25	65
Acetone	13	530	32	1300
2-Propanol	13	86	33	210
Carbon Disulfide	3.3	5.2	10	16
Methylene Chloride	3.3	5.9	12	21
2-Butanone (Methyl Ethyl Ketone)	3.3	430	9.8	1300
1,2-Dichloropropane	3.3	6.0	15	28
4-Methyl-2-pentanone	3.3	30	14	120
2-Hexanone	13	28	55	110

AIR TOXICS LTD.

Client Sample ID: VE03-B-010-029

Lab ID#: 0508101-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080413**	**Date of Collection:**	**8/3/05**
Dil. Factor:	**16.7**	**Date of Analysis:**	**8/4/05 08:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	8.4	Not Detected	41	Not Detected
Freon 114	8.4	Not Detected	58	Not Detected
Chloromethane	33	34	69	71
Vinyl Chloride	8.4	12	21	30
1,3-Butadiene	8.4	Not Detected	18	Not Detected
Bromomethane	8.4	Not Detected	32	Not Detected
Chloroethane	8.4	100	22	260
Freon 11	8.4	200	47	1100
Ethanol	33	170	63	330
Freon 113	8.4	Not Detected	64	Not Detected
1,1-Dichloroethene	8.4	Not Detected	33	Not Detected
Acetone	33	4000 E	79	9600 E
2-Propanol	33	790	82	1900
Carbon Disulfide	8.4	Not Detected	26	Not Detected
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	8.4	Not Detected	29	Not Detected
Methyl tert-butyl ether	8.4	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.4	Not Detected	33	Not Detected
Hexane	8.4	Not Detected	29	Not Detected
1,1-Dichloroethane	8.4	Not Detected	34	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.4	1400	25	4000
cis-1,2-Dichloroethene	8.4	Not Detected	33	Not Detected
Tetrahydrofuran	8.4	Not Detected	25	Not Detected
Chloroform	8.4	18	41	87
1,1,1-Trichloroethane	8.4	Not Detected	46	Not Detected
Cyclohexane	8.4	Not Detected	29	Not Detected
Carbon Tetrachloride	8.4	11	52	72
2,2,4-Trimethylpentane	8.4	Not Detected	39	Not Detected
Benzene	8.4	Not Detected	27	Not Detected
1,2-Dichloroethane	8.4	Not Detected	34	Not Detected
Heptane	8.4	Not Detected	34	Not Detected
Trichloroethene	8.4	25	45	140
1,2-Dichloropropane	8.4	Not Detected	38	Not Detected
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.4	Not Detected	56	Not Detected
cis-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
4-Methyl-2-pentanone	8.4	40	34	160
Toluene	8.4	Not Detected	31	Not Detected
trans-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
1,1,2-Trichloroethane	8.4	Not Detected	46	Not Detected
Tetrachloroethene	8.4	Not Detected	57	Not Detected
2-Hexanone	33	Not Detected	140	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-010-029

Lab ID#: 0508101-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080413**	**Date of Collection:**	**8/3/05**
Dil. Factor:	**16.7**	**Date of Analysis:**	**8/4/05 08:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	8.4	Not Detected	71	Not Detected
1,2-Dibromoethane (EDB)	8.4	Not Detected	64	Not Detected
Chlorobenzene	8.4	Not Detected	38	Not Detected
Ethyl Benzene	8.4	Not Detected	36	Not Detected
m,p-Xylene	8.4	Not Detected	36	Not Detected
o-Xylene	8.4	Not Detected	36	Not Detected
Styrene	8.4	Not Detected	36	Not Detected
Bromoform	8.4	Not Detected	86	Not Detected
Cumene	8.4	Not Detected	41	Not Detected
1,1,2,2-Tetrachloroethane	8.4	Not Detected	57	Not Detected
Propylbenzene	8.4	Not Detected	41	Not Detected
4-Ethyltoluene	8.4	Not Detected	41	Not Detected
1,3,5-Trimethylbenzene	8.4	Not Detected	41	Not Detected
1,2,4-Trimethylbenzene	8.4	Not Detected	41	Not Detected
1,3-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.4	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.4	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	250	Not Detected
Hexachlorobutadiene	33	Not Detected	360	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-010-030

Lab ID#: 0508101-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080412**	**Date of Collection:**	**8/3/05**
Dil. Factor:	**6.67**	**Date of Analysis:**	**8/4/05 06:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	3.3	Not Detected	16	Not Detected
Freon 114	3.3	Not Detected	23	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	3.3	Not Detected	8.5	Not Detected
1,3-Butadiene	3.3	Not Detected	7.4	Not Detected
Bromomethane	3.3	Not Detected	13	Not Detected
Chloroethane	3.3	12	8.8	32
Freon 11	3.3	5.7	19	32
Ethanol	13	34	25	65
Freon 113	3.3	Not Detected	26	Not Detected
1,1-Dichloroethene	3.3	Not Detected	13	Not Detected
Acetone	13	530	32	1300
2-Propanol	13	86	33	210
Carbon Disulfide	3.3	5.2	10	16
3-Chloropropene	13	Not Detected	42	Not Detected
Methylene Chloride	3.3	5.9	12	21
Methyl tert-butyl ether	3.3	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	3.3	Not Detected	13	Not Detected
Hexane	3.3	Not Detected	12	Not Detected
1,1-Dichloroethane	3.3	Not Detected	13	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	430	9.8	1300
cis-1,2-Dichloroethene	3.3	Not Detected	13	Not Detected
Tetrahydrofuran	3.3	Not Detected	9.8	Not Detected
Chloroform	3.3	Not Detected	16	Not Detected
1,1,1-Trichloroethane	3.3	Not Detected	18	Not Detected
Cyclohexane	3.3	Not Detected	11	Not Detected
Carbon Tetrachloride	3.3	Not Detected	21	Not Detected
2,2,4-Trimethylpentane	3.3	Not Detected	16	Not Detected
Benzene	3.3	Not Detected	11	Not Detected
1,2-Dichloroethane	3.3	Not Detected	13	Not Detected
Heptane	3.3	Not Detected	14	Not Detected
Trichloroethene	3.3	Not Detected	18	Not Detected
1,2-Dichloropropane	3.3	6.0	15	28
1,4-Dioxane	13	Not Detected	48	Not Detected
Bromodichloromethane	3.3	Not Detected	22	Not Detected
cis-1,3-Dichloropropene	3.3	Not Detected	15	Not Detected
4-Methyl-2-pentanone	3.3	30	14	120
Toluene	3.3	Not Detected	12	Not Detected
trans-1,3-Dichloropropene	3.3	Not Detected	15	Not Detected
1,1,2-Trichloroethane	3.3	Not Detected	18	Not Detected
Tetrachloroethene	3.3	Not Detected	23	Not Detected
2-Hexanone	13	28	55	110

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-010-030

Lab ID#: 0508101-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080412**	**Date of Collection:**	**8/3/05**
Dil. Factor:	**6.67**	**Date of Analysis:**	**8/4/05 06:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	3.3	Not Detected	28	Not Detected
1,2-Dibromoethane (EDB)	3.3	Not Detected	26	Not Detected
Chlorobenzene	3.3	Not Detected	15	Not Detected
Ethyl Benzene	3.3	Not Detected	14	Not Detected
m,p-Xylene	3.3	Not Detected	14	Not Detected
o-Xylene	3.3	Not Detected	14	Not Detected
Styrene	3.3	Not Detected	14	Not Detected
Bromoform	3.3	Not Detected	34	Not Detected
Cumene	3.3	Not Detected	16	Not Detected
1,1,2,2-Tetrachloroethane	3.3	Not Detected	23	Not Detected
Propylbenzene	3.3	Not Detected	16	Not Detected
4-Ethyltoluene	3.3	Not Detected	16	Not Detected
1,3,5-Trimethylbenzene	3.3	Not Detected	16	Not Detected
1,2,4-Trimethylbenzene	3.3	Not Detected	16	Not Detected
1,3-Dichlorobenzene	3.3	Not Detected	20	Not Detected
1,4-Dichlorobenzene	3.3	Not Detected	20	Not Detected
alpha-Chlorotoluene	3.3	Not Detected	17	Not Detected
1,2-Dichlorobenzene	3.3	Not Detected	20	Not Detected
1,2,4-Trichlorobenzene	13	Not Detected	99	Not Detected
Hexachlorobutadiene	13	Not Detected	140	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0508101-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 03:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0508101-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080408**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 03:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508101-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 11:27 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	101
Chloromethane	104
Vinyl Chloride	93
1,3-Butadiene	96
Bromomethane	112
Chloroethane	98
Freon 11	104
Ethanol	100
Freon 113	97
1,1-Dichloroethene	104
Acetone	102
2-Propanol	100
Carbon Disulfide	99
3-Chloropropene	96
Methylene Chloride	99
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	99
Hexane	99
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	106
Tetrahydrofuran	115
Chloroform	104
1,1,1-Trichloroethane	94
Cyclohexane	91
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	99
Benzene	98
1,2-Dichloroethane	122
Heptane	105
Trichloroethene	111
1,2-Dichloropropane	106
1,4-Dioxane	93
Bromodichloromethane	108
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	101
Toluene	95
trans-1,3-Dichloropropene	128
1,1,2-Trichloroethane	124
Tetrachloroethene	130
2-Hexanone	119

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508101-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 11:27 AM**	

Compound	%Recovery
Dibromochloromethane	127
1,2-Dibromoethane (EDB)	120
Chlorobenzene	113
Ethyl Benzene	115
m,p-Xylene	111
o-Xylene	113
Styrene	93
Bromoform	129
Cumene	115
1,1,2,2-Tetrachloroethane	107
Propylbenzene	111
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508101-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 01:10 PM**	

Compound	%Recovery
Freon 12	114
Freon 114	108
Chloromethane	109
Vinyl Chloride	100
1,3-Butadiene	114
Bromomethane	123
Chloroethane	102
Freon 11	114
Ethanol	96
Freon 113	105
1,1-Dichloroethene	112
Acetone	104
2-Propanol	131
Carbon Disulfide	106
3-Chloropropene	103
Methylene Chloride	111
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	122
Hexane	106
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	113
Tetrahydrofuran	122
Chloroform	107
1,1,1-Trichloroethane	91
Cyclohexane	99
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	132
Benzene	93
1,2-Dichloroethane	114
Heptane	104
Trichloroethene	106
1,2-Dichloropropane	96
1,4-Dioxane	103
Bromodichloromethane	110
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	97
Toluene	97
trans-1,3-Dichloropropene	135 Q
1,1,2-Trichloroethane	119
Tetrachloroethene	126
2-Hexanone	99

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508101-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 01:10 PM**	

Compound	**%Recovery**
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	118
Chlorobenzene	111
Ethyl Benzene	110
m,p-Xylene	110
o-Xylene	111
Styrene	138 Q
Bromoform	125
Cumene	108
1,1,2,2-Tetrachloroethane	110
Propylbenzene	113
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	80
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	120

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508101-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 02:04 PM**	

Compound	%Recovery
Freon 12	111
Freon 114	108
Chloromethane	108
Vinyl Chloride	100
1,3-Butadiene	114
Bromomethane	124
Chloroethane	100
Freon 11	112
Ethanol	96
Freon 113	103
1,1-Dichloroethene	110
Acetone	103
2-Propanol	132
Carbon Disulfide	105
3-Chloropropene	100
Methylene Chloride	110
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	121
Hexane	104
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	104
Tetrahydrofuran	122
Chloroform	105
1,1,1-Trichloroethane	88
Cyclohexane	97
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	131
Benzene	91
1,2-Dichloroethane	112
Heptane	104
Trichloroethene	104
1,2-Dichloropropane	93
1,4-Dioxane	101
Bromodichloromethane	107
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	96
Toluene	96
trans-1,3-Dichloropropene	133 Q
1,1,2-Trichloroethane	117
Tetrachloroethene	123
2-Hexanone	97

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508101-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f080407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/05 02:04 PM**	

Compound	**%Recovery**
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	116
Chlorobenzene	108
Ethyl Benzene	109
m,p-Xylene	108
o-Xylene	108
Styrene	136 Q
Bromoform	120
Cumene	105
1,1,2,2-Tetrachloroethane	107
Propylbenzene	110
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	78
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	125
Hexachlorobutadiene	120

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	103	70-130

0508392

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
MARCO MENDOZA	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON, INC.
PROJECT NAME: JPL SVE	PROJECT LOCATION: JPL-VE03	PROJECT NUMBER: 4-73803	LABORATORY PHONE: 916-985-1000	LABORATORY FAX: 916-985-1070	RECIPIENT NAME: TONY FORD
PROJECT CONTACT: MARCO MENDOZA	PROJECT PHONE NUMBER: 619-843-9968	PROJECT FAX: 626-296-0200	LABORATORY ADDRESS: 180 BLUE RAVINE RD, STE B		ADDRESS: 22632 GOLDEN SPRINGS DR, STE 270
PROJECT ADDRESS: 4800 OAK GROVE DR.	CITY, STATE AND ZIPCODE: PASADENA, CA 91109	CLIENT: BATTELLE	CITY, STATE AND ZIPCODE: FOLSOM, CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR, CA 91765
PROJECT MANAGER: TONY FORD	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses: TO-14								Comments
1	VE03-B-012-031	AIR	8/17/95	1012	NONE	1*	III	NORM	X								1* - 1L TEDLAR BAG SCREEN B
2	VE03-EFF-012-032	↓	↓	1014	↓	↓	↓	↓	X								SCREEN EFFLUENT
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

CUSTODY SEAL INTACT? Y N NONE TEMP

SAMPLES COLLECTED BY: MARCO M.

COURIER AND AIR BILL NUMBER: FED EX: 851067583003

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]				
	Cmafwatr AZ	8/18	1035	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0508392

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	08/18/2005	**CONTACT:**	Taryn Badal
DATE COMPLETED:	08/24/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-012-031	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-012-032	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
06A	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 08/24/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0508392

Two 1 Liter Tedlar Bag samples were received on August 18, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-012-031

Lab ID#: 0508392-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	2.0	3.3	5.3	8.8
Freon 11	2.0	46	11	260
Ethanol	8.0	34	15	65
Acetone	8.0	430	19	1000
2-Propanol	8.0	76	20	190
Carbon Disulfide	2.0	13	6.2	40
Methylene Chloride	2.0	17	6.9	59
Hexane	2.0	4.4	7.0	15
2-Butanone (Methyl Ethyl Ketone)	2.0	200	5.9	600
Tetrahydrofuran	2.0	2.7	5.9	8.0
Chloroform	2.0	4.6	9.8	22
Carbon Tetrachloride	2.0	3.0	12	19
Heptane	2.0	2.3	8.2	9.3
Trichloroethene	2.0	5.8	11	31
4-Methyl-2-pentanone	2.0	7.1	8.2	29
Toluene	2.0	9.3	7.5	35
m,p-Xylene	2.0	2.8	8.7	12

Client Sample ID: VE03-EFF-012-032

Lab ID#: 0508392-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	2.0	12	5.3	32
Freon 11	2.0	3.2	11	18
Ethanol	8.0	38	15	72
Acetone	8.0	700	19	1600
2-Propanol	8.0	110	20	260
Carbon Disulfide	2.0	9.7	6.2	30
Methylene Chloride	2.0	5.2	6.9	18
2-Butanone (Methyl Ethyl Ketone)	2.0	480	5.9	1400
Tetrahydrofuran	2.0	2.7	5.9	8.1
1,2-Dichloropropane	2.0	4.8	9.2	22
4-Methyl-2-pentanone	2.0	32	8.2	130
Toluene	2.0	2.9	7.5	11
2-Hexanone	8.0	29	33	120
m,p-Xylene	2.0	2.1	8.7	9.2

AIR TOXICS LTD.

Client Sample ID: VE03-B-012-031

Lab ID#: 0508392-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081911**	**Date of Collection:**	**8/17/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**8/19/05 06:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.0	Not Detected	9.9	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	2.0	3.3	5.3	8.8
Freon 11	2.0	46	11	260
Ethanol	8.0	34	15	65
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Acetone	8.0	430	19	1000
2-Propanol	8.0	76	20	190
Carbon Disulfide	2.0	13	6.2	40
3-Chloropropene	8.0	Not Detected	25	Not Detected
Methylene Chloride	2.0	17	6.9	59
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Hexane	2.0	4.4	7.0	15
1,1-Dichloroethane	2.0	Not Detected	8.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	200	5.9	600
cis-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Tetrahydrofuran	2.0	2.7	5.9	8.0
Chloroform	2.0	4.6	9.8	22
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.9	Not Detected
Carbon Tetrachloride	2.0	3.0	12	19
2,2,4-Trimethylpentane	2.0	Not Detected	9.3	Not Detected
Benzene	2.0	Not Detected	6.4	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.1	Not Detected
Heptane	2.0	2.3	8.2	9.3
Trichloroethene	2.0	5.8	11	31
1,2-Dichloropropane	2.0	Not Detected	9.2	Not Detected
1,4-Dioxane	8.0	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
4-Methyl-2-pentanone	2.0	7.1	8.2	29
Toluene	2.0	9.3	7.5	35
trans-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	14	Not Detected
2-Hexanone	8.0	Not Detected	33	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-012-031

Lab ID#: 0508392-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081911**	**Date of Collection:**	**8/17/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**8/19/05 06:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.2	Not Detected
Ethyl Benzene	2.0	Not Detected	8.7	Not Detected
m,p-Xylene	2.0	2.8	8.7	12
o-Xylene	2.0	Not Detected	8.7	Not Detected
Styrene	2.0	Not Detected	8.5	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
Cumene	2.0	Not Detected	9.8	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.8	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.0	Not Detected	59	Not Detected
Hexachlorobutadiene	8.0	Not Detected	85	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-012-032

Lab ID#: 0508392-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081912**	**Date of Collection:**	**8/17/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**8/19/05 07:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.0	Not Detected	9.9	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	2.0	12	5.3	32
Freon 11	2.0	3.2	11	18
Ethanol	8.0	38	15	72
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Acetone	8.0	700	19	1600
2-Propanol	8.0	110	20	260
Carbon Disulfide	2.0	9.7	6.2	30
3-Chloropropene	8.0	Not Detected	25	Not Detected
Methylene Chloride	2.0	5.2	6.9	18
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Hexane	2.0	Not Detected	7.0	Not Detected
1,1-Dichloroethane	2.0	Not Detected	8.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	480	5.9	1400
cis-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Tetrahydrofuran	2.0	2.7	5.9	8.1
Chloroform	2.0	Not Detected	9.8	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.9	Not Detected
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.3	Not Detected
Benzene	2.0	Not Detected	6.4	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.1	Not Detected
Heptane	2.0	Not Detected	8.2	Not Detected
Trichloroethene	2.0	Not Detected	11	Not Detected
1,2-Dichloropropane	2.0	4.8	9.2	22
1,4-Dioxane	8.0	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
4-Methyl-2-pentanone	2.0	32	8.2	130
Toluene	2.0	2.9	7.5	11
trans-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	14	Not Detected
2-Hexanone	8.0	29	33	120

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-012-032

Lab ID#: 0508392-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081912**	**Date of Collection:**	**8/17/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**8/19/05 07:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.2	Not Detected
Ethyl Benzene	2.0	Not Detected	8.7	Not Detected
m,p-Xylene	2.0	2.1	8.7	9.2
o-Xylene	2.0	Not Detected	8.7	Not Detected
Styrene	2.0	Not Detected	8.5	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
Cumene	2.0	Not Detected	9.8	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.8	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.0	Not Detected	59	Not Detected
Hexachlorobutadiene	8.0	Not Detected	85	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0508392-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081908**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 03:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0508392-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081908**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 03:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508392-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 09:50 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	98
Chloromethane	94
Vinyl Chloride	100
1,3-Butadiene	90
Bromomethane	92
Chloroethane	115
Freon 11	104
Ethanol	79
Freon 113	104
1,1-Dichloroethene	97
Acetone	92
2-Propanol	88
Carbon Disulfide	99
3-Chloropropene	103
Methylene Chloride	96
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	88
Hexane	94
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	98
Tetrahydrofuran	80
Chloroform	102
1,1,1-Trichloroethane	107
Cyclohexane	98
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	98
Benzene	99
1,2-Dichloroethane	100
Heptane	96
Trichloroethene	99
1,2-Dichloropropane	97
1,4-Dioxane	96
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	94
Toluene	102
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	94
Tetrachloroethene	99
2-Hexanone	92

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0508392-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 09:50 AM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	99
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	96
Styrene	87
Bromoform	105
Cumene	97
1,1,2,2-Tetrachloroethane	94
Propylbenzene	93
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508392-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 10:39 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	96
Chloromethane	91
Vinyl Chloride	96
1,3-Butadiene	94
Bromomethane	94
Chloroethane	106
Freon 11	102
Ethanol	62
Freon 113	101
1,1-Dichloroethene	94
Acetone	92
2-Propanol	93
Carbon Disulfide	107
3-Chloropropene	101
Methylene Chloride	95
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	106
Hexane	97
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	104
Tetrahydrofuran	77
Chloroform	95
1,1,1-Trichloroethane	90
Cyclohexane	99
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	117
Benzene	86
1,2-Dichloroethane	87
Heptane	98
Trichloroethene	87
1,2-Dichloropropane	80
1,4-Dioxane	84
Bromodichloromethane	98
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	78
Toluene	95
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	85
Tetrachloroethene	92
2-Hexanone	64

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0508392-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 10:39 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	88
Chlorobenzene	92
Ethyl Benzene	90
m,p-Xylene	94
o-Xylene	90
Styrene	109
Bromoform	120
Cumene	89
1,1,2,2-Tetrachloroethane	87
Propylbenzene	92
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	68 Q
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508392-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 11:16 AM**	

Compound	%Recovery
Freon 12	100
Freon 114	97
Chloromethane	91
Vinyl Chloride	95
1,3-Butadiene	93
Bromomethane	95
Chloroethane	108
Freon 11	101
Ethanol	62
Freon 113	102
1,1-Dichloroethene	93
Acetone	90
2-Propanol	93
Carbon Disulfide	106
3-Chloropropene	100
Methylene Chloride	94
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	106
Hexane	96
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	104
Tetrahydrofuran	76
Chloroform	95
1,1,1-Trichloroethane	90
Cyclohexane	99
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	118
Benzene	87
1,2-Dichloroethane	87
Heptane	100
Trichloroethene	86
1,2-Dichloropropane	80
1,4-Dioxane	84
Bromodichloromethane	98
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	80
Toluene	95
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	85
Tetrachloroethene	92
2-Hexanone	64

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0508392-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**1081904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/19/05 11:16 AM**	

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	88
Chlorobenzene	91
Ethyl Benzene	91
m,p-Xylene	94
o-Xylene	90
Styrene	109
Bromoform	120
Cumene	88
1,1,2,2-Tetrachloroethane	87
Propylbenzene	92
4-Ethyltoluene	82
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	67 Q
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	83

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

0509008

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
MARCO MENDOZA	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON, INC
PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL SVE	JPL- VE03	4-73803	916-985-1000	916-985-1070	TONY FORD
PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS		ADDRESS
MARCO MENDOZA	619-843-9968	626-296-0200	180 BLUE RAVINE RD, STE. B		22632 GOLDEN SPRINGS DR, STE. 270
PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE		CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA, CA 91109	BATTELLE	FOLSOM, CA 95630		DIAMOND BAR, CA 91765
PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX			
TONY FORD	909-396-7662	909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14								Comments
01A	VE03-B-014-033	AIR	8/31/05	0642	NONE	1*	III	NORM	X								1*-1L TEDLAR BAG SCMAN B
02A	VE03-EFF-014-034	↓	↓	0644	↓	↓	↓	↓	X								SCMAN EFFLUENT
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: MARCO M.

COURIER AND AIR BILL NUMBER: FED-EX: 8526 0066 3670

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	Lenita R. Thomas OCL	9/1/05	1100

SAMPLES CONDITION UPON RECEIPT

CUSTODY SEAL INTACT?

Y N NONE TEMP

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0509008

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	09/01/2005	**CONTACT:**	Kris Vieaux
DATE COMPLETED:	09/08/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-014-033	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-014-034	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 09/08/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0509008

Two 1 Liter Tedlar Bag samples were received on September 01, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt

Confirmation email/fax.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-014-033

Lab ID#: 0509008-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	25	90	66	240
Freon 11	25	160	140	900
Ethanol	100	200	190	370
Acetone	100	4400	240	10000
2-Propanol	100	820	240	2000
2-Butanone (Methyl Ethyl Ketone)	25	1300	74	3900
4-Methyl-2-pentanone	25	32	100	130

Client Sample ID: VE03-EFF-014-034

Lab ID#: 0509008-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	4.0	24	10	63
Ethanol	16	52	30	98
Acetone	16	910	38	2200
2-Propanol	16	160	39	390
Carbon Disulfide	4.0	6.5	12	20
Methylene Chloride	4.0	10	14	35
2-Butanone (Methyl Ethyl Ketone)	4.0	470	12	1400
1,2-Dichloropropane	4.0	5.0	18	23
4-Methyl-2-pentanone	4.0	22	16	91
2-Hexanone	16	22	66	89

AIR TOXICS LTD.

Client Sample ID: VE03-B-014-033

Lab ID#: 0509008-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090211**	**Date of Collection:**	**8/31/05**
Dil. Factor:	**50.0**	**Date of Analysis:**	**9/2/05 09:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	25	Not Detected	120	Not Detected
Freon 114	25	Not Detected	170	Not Detected
Chloromethane	100	Not Detected	210	Not Detected
Vinyl Chloride	25	Not Detected	64	Not Detected
1,3-Butadiene	25	Not Detected	55	Not Detected
Bromomethane	25	Not Detected	97	Not Detected
Chloroethane	25	90	66	240
Freon 11	25	160	140	900
Ethanol	100	200	190	370
Freon 113	25	Not Detected	190	Not Detected
1,1-Dichloroethene	25	Not Detected	99	Not Detected
Acetone	100	4400	240	10000
2-Propanol	100	820	240	2000
Carbon Disulfide	25	Not Detected	78	Not Detected
3-Chloropropene	100	Not Detected	310	Not Detected
Methylene Chloride	25	Not Detected	87	Not Detected
Methyl tert-butyl ether	25	Not Detected	90	Not Detected
trans-1,2-Dichloroethene	25	Not Detected	99	Not Detected
Hexane	25	Not Detected	88	Not Detected
1,1-Dichloroethane	25	Not Detected	100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	25	1300	74	3900
cis-1,2-Dichloroethene	25	Not Detected	99	Not Detected
Tetrahydrofuran	25	Not Detected	74	Not Detected
Chloroform	25	Not Detected	120	Not Detected
1,1,1-Trichloroethane	25	Not Detected	140	Not Detected
Cyclohexane	25	Not Detected	86	Not Detected
Carbon Tetrachloride	25	Not Detected	160	Not Detected
2,2,4-Trimethylpentane	25	Not Detected	120	Not Detected
Benzene	25	Not Detected	80	Not Detected
1,2-Dichloroethane	25	Not Detected	100	Not Detected
Heptane	25	Not Detected	100	Not Detected
Trichloroethene	25	Not Detected	130	Not Detected
1,2-Dichloropropane	25	Not Detected	120	Not Detected
1,4-Dioxane	100	Not Detected	360	Not Detected
Bromodichloromethane	25	Not Detected	170	Not Detected
cis-1,3-Dichloropropene	25	Not Detected	110	Not Detected
4-Methyl-2-pentanone	25	32	100	130
Toluene	25	Not Detected	94	Not Detected
trans-1,3-Dichloropropene	25	Not Detected	110	Not Detected
1,1,2-Trichloroethane	25	Not Detected	140	Not Detected
Tetrachloroethene	25	Not Detected	170	Not Detected
2-Hexanone	100	Not Detected	410	Not Detected

AIR TOXICS LTD.

Client Sample ID: VE03-B-014-033

Lab ID#: 0509008-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090211**	**Date of Collection:**	**8/31/05**
Dil. Factor:	**50.0**	**Date of Analysis:**	**9/2/05 09:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	25	Not Detected	210	Not Detected
1,2-Dibromoethane (EDB)	25	Not Detected	190	Not Detected
Chlorobenzene	25	Not Detected	120	Not Detected
Ethyl Benzene	25	Not Detected	110	Not Detected
m,p-Xylene	25	Not Detected	110	Not Detected
o-Xylene	25	Not Detected	110	Not Detected
Styrene	25	Not Detected	110	Not Detected
Bromoform	25	Not Detected	260	Not Detected
Cumene	25	Not Detected	120	Not Detected
1,1,2,2-Tetrachloroethane	25	Not Detected	170	Not Detected
Propylbenzene	25	Not Detected	120	Not Detected
4-Ethyltoluene	25	Not Detected	120	Not Detected
1,3,5-Trimethylbenzene	25	Not Detected	120	Not Detected
1,2,4-Trimethylbenzene	25	Not Detected	120	Not Detected
1,3-Dichlorobenzene	25	Not Detected	150	Not Detected
1,4-Dichlorobenzene	25	Not Detected	150	Not Detected
alpha-Chlorotoluene	25	Not Detected	130	Not Detected
1,2-Dichlorobenzene	25	Not Detected	150	Not Detected
1,2,4-Trichlorobenzene	100	Not Detected	740	Not Detected
Hexachlorobutadiene	100	Not Detected	1100	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-014-034

Lab ID#: 0509008-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090210**	**Date of Collection:**	**8/31/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**9/2/05 08:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	4.0	Not Detected	20	Not Detected
Freon 114	4.0	Not Detected	28	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	4.0	Not Detected	10	Not Detected
1,3-Butadiene	4.0	Not Detected	8.8	Not Detected
Bromomethane	4.0	Not Detected	16	Not Detected
Chloroethane	4.0	24	10	63
Freon 11	4.0	Not Detected	22	Not Detected
Ethanol	16	52	30	98
Freon 113	4.0	Not Detected	31	Not Detected
1,1-Dichloroethene	4.0	Not Detected	16	Not Detected
Acetone	16	910	38	2200
2-Propanol	16	160	39	390
Carbon Disulfide	4.0	6.5	12	20
3-Chloropropene	16	Not Detected	50	Not Detected
Methylene Chloride	4.0	10	14	35
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Hexane	4.0	Not Detected	14	Not Detected
1,1-Dichloroethane	4.0	Not Detected	16	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	470	12	1400
cis-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Tetrahydrofuran	4.0	Not Detected	12	Not Detected
Chloroform	4.0	Not Detected	20	Not Detected
1,1,1-Trichloroethane	4.0	Not Detected	22	Not Detected
Cyclohexane	4.0	Not Detected	14	Not Detected
Carbon Tetrachloride	4.0	Not Detected	25	Not Detected
2,2,4-Trimethylpentane	4.0	Not Detected	19	Not Detected
Benzene	4.0	Not Detected	13	Not Detected
1,2-Dichloroethane	4.0	Not Detected	16	Not Detected
Heptane	4.0	Not Detected	16	Not Detected
Trichloroethene	4.0	Not Detected	21	Not Detected
1,2-Dichloropropane	4.0	5.0	18	23
1,4-Dioxane	16	Not Detected	58	Not Detected
Bromodichloromethane	4.0	Not Detected	27	Not Detected
cis-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
4-Methyl-2-pentanone	4.0	22	16	91
Toluene	4.0	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	4.0	Not Detected	18	Not Detected
1,1,2-Trichloroethane	4.0	Not Detected	22	Not Detected
Tetrachloroethene	4.0	Not Detected	27	Not Detected
2-Hexanone	16	22	66	89

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-014-034

Lab ID#: 0509008-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090210**	**Date of Collection:**	**8/31/05**
Dil. Factor:	**8.00**	**Date of Analysis:**	**9/2/05 08:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	4.0	Not Detected	34	Not Detected
1,2-Dibromoethane (EDB)	4.0	Not Detected	31	Not Detected
Chlorobenzene	4.0	Not Detected	18	Not Detected
Ethyl Benzene	4.0	Not Detected	17	Not Detected
m,p-Xylene	4.0	Not Detected	17	Not Detected
o-Xylene	4.0	Not Detected	17	Not Detected
Styrene	4.0	Not Detected	17	Not Detected
Bromoform	4.0	Not Detected	41	Not Detected
Cumene	4.0	Not Detected	20	Not Detected
1,1,2,2-Tetrachloroethane	4.0	Not Detected	27	Not Detected
Propylbenzene	4.0	Not Detected	20	Not Detected
4-Ethyltoluene	4.0	Not Detected	20	Not Detected
1,3,5-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,2,4-Trimethylbenzene	4.0	Not Detected	20	Not Detected
1,3-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,4-Dichlorobenzene	4.0	Not Detected	24	Not Detected
alpha-Chlorotoluene	4.0	Not Detected	21	Not Detected
1,2-Dichlorobenzene	4.0	Not Detected	24	Not Detected
1,2,4-Trichlorobenzene	16	Not Detected	120	Not Detected
Hexachlorobutadiene	16	Not Detected	170	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509008-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 05:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509008-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 05:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0509008-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 01:38 PM**	

Compound	%Recovery
Freon 12	106
Freon 114	102
Chloromethane	101
Vinyl Chloride	92
1,3-Butadiene	99
Bromomethane	115
Chloroethane	93
Freon 11	110
Ethanol	90
Freon 113	97
1,1-Dichloroethene	107
Acetone	87
2-Propanol	98
Carbon Disulfide	91
3-Chloropropene	96
Methylene Chloride	104
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	93
Hexane	92
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	112
Tetrahydrofuran	111
Chloroform	110
1,1,1-Trichloroethane	98
Cyclohexane	87
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	102
Benzene	104
1,2-Dichloroethane	135 Q
Heptane	104
Trichloroethene	118
1,2-Dichloropropane	113
1,4-Dioxane	95
Bromodichloromethane	107
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	100
Toluene	100
trans-1,3-Dichloropropene	128
1,1,2-Trichloroethane	128
Tetrachloroethene	128
2-Hexanone	119

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0509008-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 01:38 PM**	

Compound	**%Recovery**
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	124
Chlorobenzene	114
Ethyl Benzene	116
m,p-Xylene	113
o-Xylene	113
Styrene	105
Bromoform	103
Cumene	113
1,1,2,2-Tetrachloroethane	113
Propylbenzene	110
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	111

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0509008-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 02:38 PM**	

Compound	%Recovery
Freon 12	109
Freon 114	106
Chloromethane	105
Vinyl Chloride	95
1,3-Butadiene	110
Bromomethane	124
Chloroethane	92
Freon 11	113
Ethanol	58 Q
Freon 113	101
1,1-Dichloroethene	109
Acetone	83
2-Propanol	90
Carbon Disulfide	104
3-Chloropropene	95
Methylene Chloride	109
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	119
Hexane	100
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	109
Tetrahydrofuran	106
Chloroform	106
1,1,1-Trichloroethane	85
Cyclohexane	93
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	127
Benzene	95
1,2-Dichloroethane	121
Heptane	106
Trichloroethene	109
1,2-Dichloropropane	97
1,4-Dioxane	71
Bromodichloromethane	110
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	73
Toluene	97
trans-1,3-Dichloropropene	135 Q
1,1,2-Trichloroethane	119
Tetrachloroethene	125
2-Hexanone	66

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0509008-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 02:38 PM**	

Compound	**%Recovery**
Dibromochloromethane	123
1,2-Dibromoethane (EDB)	116
Chlorobenzene	111
Ethyl Benzene	110
m,p-Xylene	110
o-Xylene	109
Styrene	134 Q
Bromoform	120
Cumene	109
1,1,2,2-Tetrachloroethane	101
Propylbenzene	113
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	69 Q
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0509008-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 03:56 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	106
Chloromethane	107
Vinyl Chloride	95
1,3-Butadiene	111
Bromomethane	123
Chloroethane	93
Freon 11	112
Ethanol	58 Q
Freon 113	101
1,1-Dichloroethene	110
Acetone	84
2-Propanol	90
Carbon Disulfide	103
3-Chloropropene	98
Methylene Chloride	110
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	120
Hexane	102
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	108
Tetrahydrofuran	108
Chloroform	106
1,1,1-Trichloroethane	86
Cyclohexane	95
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	127
Benzene	95
1,2-Dichloroethane	119
Heptane	106
Trichloroethene	107
1,2-Dichloropropane	97
1,4-Dioxane	72
Bromodichloromethane	110
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	74
Toluene	98
trans-1,3-Dichloropropene	132 Q
1,1,2-Trichloroethane	118
Tetrachloroethene	123
2-Hexanone	65

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0509008-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**f090205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/2/05 03:56 PM**	

Compound	**%Recovery**
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	114
Chlorobenzene	109
Ethyl Benzene	109
m,p-Xylene	109
o-Xylene	106
Styrene	133 Q
Bromoform	119
Cumene	106
1,1,2,2-Tetrachloroethane	99
Propylbenzene	111
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	67 Q
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	100	70-130

0509196

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
MARCO MENDOZA	909-396-7662	909-396-1455	AIR TOXICS	JENNIFER MILLER	GEOFON INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
SPL SVE	SPL VE03	4-73803	916-985-1000	916-985-1070	TONY FORD

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
MARCO MENDOZA	619-843-9948	626-296-0200	180 BLUE RAVINE RD, STE B	22632 GOLDEN SPRINGS DR STE. 270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA CA 91109	BATTELLE	FOLSOM, CA 95630	DIAMOND BAR, CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
TONY FORD	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14	Comments
01A	VE03-B-015-035	AIR	9/9/05	1136	NONE	1*	III	NORM.	X	1* - 1L. TEDLAR BAG SCREEN B
02A	VE03-EFF-015-036	↓	↓	1138	↓	↓	↓	↓	X	SCREEN EFFLUENT
03A	VE03-A-015-037	↓	↓	1244	↓	↓	↓	↓	X	SCREEN A
4										
5										
6										
7										
8										
9										
10										

~~CUSTODY SEAL INTACT?~~
Y N NONE TEMP ✓

SAMPLES COLLECTED BY: MARIO M

COURIER AND AIR BILL NUMBER: FED EX: 8526 0066 3680

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]				
	Judy Lee	9/10/05	910	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

FedEX 8526 0066 3680

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

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Hours 8:00 A.M to 6:00 P.M. Pacific

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0509196

Work Order Summary

CLIENT:	Mr. Tony Ford Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Tony Ford Geofon 22632 Golden Springs Drive Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	4-73803 JPL SVE
DATE RECEIVED:	09/10/2005	**CONTACT:**	Kevin Reiersen
DATE COMPLETED:	09/16/2005		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE03-B-015-035	Modified TO-14A	Tedlar Bag
02A	VE03-EFF-015-036	Modified TO-14A	Tedlar Bag
03A	VE03-A-015-037	Modified TO-14A	Tedlar Bag
04A	Lab Blank	Modified TO-14A	NA
05A	CCV	Modified TO-14A	NA
06A	LCS	Modified TO-14A	NA
06AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda J. Freeman

Laboratory Director

DATE: 09/16/05

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0509196

Three 1 Liter Tedlar Bag samples were received on September 10, 2005. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-14A/TO-15***	***ATL Modifications***
Continuing Calibration criteria	+- 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: VE03-B-015-035

Lab ID#: 0509196-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	2.0	8.7	5.3	23
Freon 11	2.0	120	11	690
Ethanol	8.0	59	15	110
Acetone	8.0	1100 E	19	2700 E
2-Propanol	8.0	190	20	460
Carbon Disulfide	2.0	9.7	6.2	30
Methylene Chloride	2.0	2.5	6.9	8.6
Hexane	2.0	2.1	7.0	7.3
2-Butanone (Methyl Ethyl Ketone)	2.0	500	5.9	1500
Tetrahydrofuran	2.0	3.4	5.9	10
Chloroform	2.0	14	9.8	67
Carbon Tetrachloride	2.0	12	12	74
Trichloroethene	2.0	18	11	97
4-Methyl-2-pentanone	2.0	16	8.2	67
Toluene	2.0	2.4	7.5	9.2
2-Hexanone	8.0	13	33	53
m,p-Xylene	2.0	2.1	8.7	9.2

Client Sample ID: VE03-EFF-015-036

Lab ID#: 0509196-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroethane	1.3	14	3.5	38
Ethanol	5.3	52	10	98
Acetone	5.3	740 E	13	1800 E
2-Propanol	5.3	130	13	310
Carbon Disulfide	1.3	6.5	4.2	20
Methylene Chloride	1.3	5.7	4.6	20
Hexane	1.3	1.5	4.7	5.2
2-Butanone (Methyl Ethyl Ketone)	1.3	540	3.9	1600
Tetrahydrofuran	1.3	2.3	3.9	6.7
1,2-Dichloroethane	1.3	1.5	5.4	6.1
4-Methyl-2-pentanone	1.3	35	5.5	140
Toluene	1.3	2.3	5.0	8.7
1,1,2-Trichloroethane	1.3	1.4	7.3	7.6
2-Hexanone	5.3	27	22	110
m,p-Xylene	1.3	1.5	5.8	6.6

Client Sample ID: VE03-A-015-037

Lab ID#: 0509196-03A

Client Sample ID: VE03-A-015-037

Lab ID#: 0509196-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.55	2.5	2.7
Chloroethane	0.50	5.2	1.3	14
Freon 11	0.50	0.67	2.8	3.7
Ethanol	2.0	20	3.8	38
Acetone	2.0	120	4.8	290
2-Propanol	2.0	26	4.9	63
Carbon Disulfide	0.50	8.1	1.6	25
Methylene Chloride	0.50	1.6	1.7	5.5
Hexane	0.50	0.50	1.8	1.8
1,1-Dichloroethane	0.50	0.68	2.0	2.8
2-Butanone (Methyl Ethyl Ketone)	0.50	98	1.5	290
Tetrahydrofuran	0.50	2.4	1.5	7.1
Chloroform	0.50	1.3	2.4	6.5
Carbon Tetrachloride	0.50	0.70	3.1	4.4
1,2-Dichloroethane	0.50	0.70	2.0	2.8
Heptane	0.50	1.9	2.0	7.8
Trichloroethene	0.50	0.77	2.7	4.1
4-Methyl-2-pentanone	0.50	4.1	2.0	17
Toluene	0.50	2.4	1.9	9.0
1,1,2-Trichloroethane	0.50	0.58	2.7	3.1
2-Hexanone	2.0	13	8.2	52
Ethyl Benzene	0.50	0.61	2.2	2.7
m,p-Xylene	0.50	1.8	2.2	8.0
Styrene	0.50	0.55	2.1	2.3

AIR TOXICS LTD.

Client Sample ID: VE03-B-015-035

Lab ID#: 0509196-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091210**	**Date of Collection:**	**9/9/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**9/12/05 06:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.0	Not Detected	9.9	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	2.0	8.7	5.3	23
Freon 11	2.0	120	11	690
Ethanol	8.0	59	15	110
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Acetone	8.0	1100 E	19	2700 E
2-Propanol	8.0	190	20	460
Carbon Disulfide	2.0	9.7	6.2	30
3-Chloropropene	8.0	Not Detected U J	25	Not Detected U J
Methylene Chloride	2.0	2.5	6.9	8.6
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Hexane	2.0	2.1	7.0	7.3
1,1-Dichloroethane	2.0	Not Detected	8.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	500	5.9	1500
cis-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Tetrahydrofuran	2.0	3.4	5.9	10
Chloroform	2.0	14	9.8	67
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.9	Not Detected
Carbon Tetrachloride	2.0	12	12	74
2,2,4-Trimethylpentane	2.0	Not Detected	9.3	Not Detected
Benzene	2.0	Not Detected	6.4	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.1	Not Detected
Heptane	2.0	Not Detected	8.2	Not Detected
Trichloroethene	2.0	18	11	97
1,2-Dichloropropane	2.0	Not Detected	9.2	Not Detected
1,4-Dioxane	8.0	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
4-Methyl-2-pentanone	2.0	16	8.2	67
Toluene	2.0	2.4	7.5	9.2
trans-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	14	Not Detected
2-Hexanone	8.0	13	33	53

AIR TOXICS LTD.

Client Sample ID: VE03-B-015-035

Lab ID#: 0509196-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091210**	**Date of Collection:**	**9/9/05**
Dil. Factor:	**4.00**	**Date of Analysis:**	**9/12/05 06:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.2	Not Detected
Ethyl Benzene	2.0	Not Detected	8.7	Not Detected
m,p-Xylene	2.0	2.1	8.7	9.2
o-Xylene	2.0	Not Detected	8.7	Not Detected
Styrene	2.0	Not Detected	8.5	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
Cumene	2.0	Not Detected	9.8	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.8	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.0	Not Detected	59	Not Detected
Hexachlorobutadiene	8.0	Not Detected	85	Not Detected

E = Exceeds instrument calibration range.
UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-015-036

Lab ID#: 0509196-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091209**	**Date of Collection:**	**9/9/05**
Dil. Factor:	**2.67**	**Date of Analysis:**	**9/12/05 05:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.3	Not Detected
Chloromethane	5.3	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	1.3	Not Detected	5.2	Not Detected
Chloroethane	1.3	14	3.5	38
Freon 11	1.3	Not Detected	7.5	Not Detected
Ethanol	5.3	52	10	98
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	5.3	740 E	13	1800 E
2-Propanol	5.3	130	13	310
Carbon Disulfide	1.3	6.5	4.2	20
3-Chloropropene	5.3	Not Detected U J	17	Not Detected U J
Methylene Chloride	1.3	5.7	4.6	20
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	1.5	4.7	5.2
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	540	3.9	1600
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	2.3	3.9	6.7
Chloroform	1.3	Not Detected	6.5	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.4	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.2	Not Detected
Benzene	1.3	Not Detected	4.3	Not Detected
1,2-Dichloroethane	1.3	1.5	5.4	6.1
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.9	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	35	5.5	140
Toluene	1.3	2.3	5.0	8.7
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	1.4	7.3	7.6
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
2-Hexanone	5.3	27	22	110

AIR TOXICS LTD.

Client Sample ID: VE03-EFF-015-036

Lab ID#: 0509196-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091209**	**Date of Collection:**	**9/9/05**
Dil. Factor:	**2.67**	**Date of Analysis:**	**9/12/05 05:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	1.5	5.8	6.6
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.9	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	40	Not Detected
Hexachlorobutadiene	5.3	Not Detected	57	Not Detected

E = Exceeds instrument calibration range.
UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: VE03-A-015-037

Lab ID#: 0509196-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091207**	**Date of Collection:**	**9/9/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**9/12/05 03:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	0.55	2.5	2.7
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	5.2	1.3	14
Freon 11	0.50	0.67	2.8	3.7
Ethanol	2.0	20	3.8	38
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	120	4.8	290
2-Propanol	2.0	26	4.9	63
Carbon Disulfide	0.50	8.1	1.6	25
3-Chloropropene	2.0	Not Detected U J	6.3	Not Detected U J
Methylene Chloride	0.50	1.6	1.7	5.5
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	0.50	1.8	1.8
1,1-Dichloroethane	0.50	0.68	2.0	2.8
2-Butanone (Methyl Ethyl Ketone)	0.50	98	1.5	290
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	2.4	1.5	7.1
Chloroform	0.50	1.3	2.4	6.5
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	0.70	3.1	4.4
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.70	2.0	2.8
Heptane	0.50	1.9	2.0	7.8
Trichloroethene	0.50	0.77	2.7	4.1
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	4.1	2.0	17
Toluene	0.50	2.4	1.9	9.0
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	0.58	2.7	3.1
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	13	8.2	52

AIR TOXICS LTD.

Client Sample ID: VE03-A-015-037

Lab ID#: 0509196-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091207**	**Date of Collection:**	**9/9/05**
Dil. Factor:	**1.00**	**Date of Analysis:**	**9/12/05 03:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	0.61	2.2	2.7
m,p-Xylene	0.50	1.8	2.2	8.0
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	0.55	2.1	2.3
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

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

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509196-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 01:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected U J	6.3	Not Detected U J
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509196-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 01:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0509196-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 10:11 AM**	

Compound	%Recovery
Freon 12	91
Freon 114	107
Chloromethane	91
Vinyl Chloride	105
1,3-Butadiene	117
Bromomethane	103
Chloroethane	81
Freon 11	105
Ethanol	110
Freon 113	106
1,1-Dichloroethene	106
Acetone	100
2-Propanol	110
Carbon Disulfide	103
3-Chloropropene	68 Q
Methylene Chloride	91
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	97
Hexane	102
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	106
Tetrahydrofuran	111
Chloroform	101
1,1,1-Trichloroethane	102
Cyclohexane	104
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	103
Benzene	86
1,2-Dichloroethane	104
Heptane	101
Trichloroethene	99
1,2-Dichloropropane	105
1,4-Dioxane	103
Bromodichloromethane	104
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	114
Toluene	96
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	98
Tetrachloroethene	96
2-Hexanone	110

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0509196-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 10:11 AM**	

Compound	**%Recovery**
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	97
Chlorobenzene	91
Ethyl Benzene	92
m,p-Xylene	89
o-Xylene	89
Styrene	98
Bromoform	102
Cumene	88
1,1,2,2-Tetrachloroethane	90
Propylbenzene	86
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	83
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	82
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0509196-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 11:08 AM**	

Compound	%Recovery
Freon 12	69 Q
Freon 114	101
Chloromethane	89
Vinyl Chloride	87
1,3-Butadiene	118
Bromomethane	93
Chloroethane	69 Q
Freon 11	97
Ethanol	78
Freon 113	101
1,1-Dichloroethene	97
Acetone	92
2-Propanol	109
Carbon Disulfide	104
3-Chloropropene	65
Methylene Chloride	85
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	112
Hexane	99
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	107
Tetrahydrofuran	101
Chloroform	87
1,1,1-Trichloroethane	81
Cyclohexane	102
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	116
Benzene	73
1,2-Dichloroethane	88
Heptane	100
Trichloroethene	84
1,2-Dichloropropane	84
1,4-Dioxane	88
Bromodichloromethane	101
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	95
Toluene	88
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	86
Tetrachloroethene	87
2-Hexanone	73

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0509196-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 11:08 AM**	

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	86
Chlorobenzene	82
Ethyl Benzene	84
m,p-Xylene	81
o-Xylene	80
Styrene	119
Bromoform	121
Cumene	77
1,1,2,2-Tetrachloroethane	80
Propylbenzene	81
4-Ethyltoluene	72
1,3,5-Trimethylbenzene	78
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	74
1,4-Dichlorobenzene	76
alpha-Chlorotoluene	63 Q
1,2-Dichlorobenzene	77
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	82

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0509196-06AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 12:10 PM**	

Compound	%Recovery
Freon 12	64 Q
Freon 114	97
Chloromethane	86
Vinyl Chloride	79
1,3-Butadiene	114
Bromomethane	87
Chloroethane	67 Q
Freon 11	94
Ethanol	75
Freon 113	98
1,1-Dichloroethene	94
Acetone	92
2-Propanol	106
Carbon Disulfide	101
3-Chloropropene	68
Methylene Chloride	82
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	109
Hexane	97
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	104
Tetrahydrofuran	97
Chloroform	85
1,1,1-Trichloroethane	79
Cyclohexane	98
Carbon Tetrachloride	85
2,2,4-Trimethylpentane	113
Benzene	70
1,2-Dichloroethane	85
Heptane	95
Trichloroethene	82
1,2-Dichloropropane	82
1,4-Dioxane	86
Bromodichloromethane	98
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	91
Toluene	84
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	84
Tetrachloroethene	84
2-Hexanone	72

AIR TOXICS LTD.

Client Sample ID: LCSD

Lab ID#: 0509196-06AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**i091204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/05 12:10 PM**	

Compound	**%Recovery**
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	85
Chlorobenzene	80
Ethyl Benzene	82
m,p-Xylene	79
o-Xylene	78
Styrene	115
Bromoform	118
Cumene	75
1,1,2,2-Tetrachloroethane	78
Propylbenzene	78
4-Ethyltoluene	70
1,3,5-Trimethylbenzene	75
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	72
1,4-Dichlorobenzene	74
alpha-Chlorotoluene	61 Q
1,2-Dichlorobenzene	74
1,2,4-Trichlorobenzene	79
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130