

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0305553

Work Order Summary

CLIENT:	Mr. Leo Williamson Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	BILL TO:	Mr. Leo Williamson Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	P.O. #	
FAX:	909-396-1455	PROJECT #	04-4428.10 JPL #2
DATE RECEIVED:	5/29/03	CONTACT:	Kelly Buettner
DATE COMPLETED:	6/6/03		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	VE04-A-001-001	Modified TO-14A	Tedlar Bag
02A	VE04-B-001-002	Modified TO-14A	Tedlar Bag
02AA	VE04-B-001-002 Duplicate	Modified TO-14A	Tedlar Bag
03A	VE04-C-001-003	Modified TO-14A	Tedlar Bag
04A	VE04-INN-001-004	Modified TO-14A	Tedlar Bag
05A	VE04-EFF-001-005	Modified TO-14A	Tedlar Bag
06A	Lab Blank	Modified TO-14A	NA
07A	CCV	Modified TO-14A	NA
08A	LCS	Modified TO-14A	NA
08AA	LCSD	Modified TO-14A	NA

CERTIFIED BY:

Laboratory Director

DATE: 06/06/03

Certification numbers: AR DEQ, 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: 07/01/02, Expiration date: 06/30/03

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 Method TO-14A
Geofon
Workorder# 0305553

Five 1 Liter Tedlar Bag samples were received on May 29, 2003. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.5 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:

<i>Requirement</i>	<i>TO-14A</i>	<i>ATL Modifications</i>
Continuing Calibration criteria	70-130% recovery	70-130% recovery with two allowed out to 60-140%; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106

Receiving Notes

There were no receiving discrepancies.

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.

SAMPLE NAME: VE04-A-001-001

ID#: 0305553-01A

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

File Name:	b053021	Date of Collection:	5/28/03
Dil. Factor:	16.0	Date of Analysis:	5/30/03

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	8.0	40	120	620
Freon 114	8.0	57	Not Detected	Not Detected
Chloromethane	8.0	17	Not Detected	Not Detected
Vinyl Chloride	8.0	21	Not Detected	Not Detected
Bromomethane	8.0	32	Not Detected	Not Detected
Chloroethane	8.0	21	8.8	24
Freon 11	8.0	46	Not Detected	Not Detected
1,1-Dichloroethene	8.0	32	Not Detected	Not Detected
Freon 113	8.0	62	35	270
Methylene Chloride	8.0	28	Not Detected	Not Detected
1,1-Dichloroethane	8.0	33	Not Detected	Not Detected
cis-1,2-Dichloroethene	8.0	32	Not Detected	Not Detected
Chloroform	8.0	40	14	69
1,1,1-Trichloroethane	8.0	44	Not Detected	Not Detected
Carbon Tetrachloride	8.0	51	20	130
Benzene	8.0	26	Not Detected	Not Detected
1,2-Dichloroethane	8.0	33	Not Detected	Not Detected
Trichloroethene	8.0	44	210	1200
1,2-Dichloropropane	8.0	38	Not Detected	Not Detected
cis-1,3-Dichloropropene	8.0	37	Not Detected	Not Detected
Toluene	8.0	31	Not Detected	Not Detected
trans-1,3-Dichloropropene	8.0	37	Not Detected	Not Detected
1,1,2-Trichloroethane	8.0	44	Not Detected	Not Detected
Tetrachloroethene	8.0	55	11	79
1,2-Dibromoethane (EDB)	8.0	62	Not Detected	Not Detected
Chlorobenzene	8.0	37	Not Detected	Not Detected
Ethyl Benzene	8.0	35	Not Detected	Not Detected
m,p-Xylene	8.0	35	Not Detected	Not Detected
o-Xylene	8.0	35	Not Detected	Not Detected
Styrene	8.0	35	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	8.0	56	Not Detected	Not Detected
1,3,5-Trimethylbenzene	8.0	40	Not Detected	Not Detected
1,2,4-Trimethylbenzene	8.0	40	Not Detected	Not Detected
1,3-Dichlorobenzene	8.0	49	Not Detected	Not Detected
1,4-Dichlorobenzene	8.0	49	Not Detected	Not Detected
alpha-Chlorotoluene	8.0	42	Not Detected	Not Detected
1,2-Dichlorobenzene	8.0	49	Not Detected	Not Detected
1,2,4-Trichlorobenzene	32	240	Not Detected	Not Detected
Hexachlorobutadiene	32	350	Not Detected	Not Detected
Propylene	32	56	2100	3800
1,3-Butadiene	32	72	Not Detected	Not Detected
Acetone	32	77	1600	3800

AIR TOXICS LTD.

SAMPLE NAME: VE04-A-001-001

ID#: 0305553-01A

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

File Name:	b053021	Date of Collection:	5/28/03
Dil. Factor:	16.0	Date of Analysis:	5/30/03

Compound	Rot. Limit (ppbv)	Rot. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	32	100	Not Detected	Not Detected
2-Propanol	32	80	230	570
trans-1,2-Dichloroethene	32	130	Not Detected	Not Detected
Vinyl Acetate	32	110	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	32	96	470	1400
Hexane	32	110	Not Detected	Not Detected
Tetrahydrofuran	32	96	35	100
Cyclohexane	32	110	Not Detected	Not Detected
1,4-Dioxane	32	120	Not Detected	Not Detected
Bromodichloromethane	32	220	Not Detected	Not Detected
4-Methyl-2-pentanone	32	130	Not Detected	Not Detected
2-Hexanone	32	130	Not Detected	Not Detected
Dibromochloromethane	32	280	Not Detected	Not Detected
Bromoform	32	340	Not Detected	Not Detected
4-Ethyltoluene	32	160	Not Detected	Not Detected
Ethanol	32	61	98	190
Methyl tert-butyl ether	32	120	Not Detected	Not Detected
Heptane	32	130	36	150

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-001-002

ID#: 0305553-02A

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

File Name:	b053024	Date of Collection:	5/28/03
Dil. Factor:	20.0	Date of Analysis:	5/31/03

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	10	50	12	61
Freon 114	10	71	Not Detected	Not Detected
Chloromethane	10	21	Not Detected	Not Detected
Vinyl Chloride	10	26	Not Detected	Not Detected
Bromomethane	10	39	Not Detected	Not Detected
Chloroethane	10	27	12	32
Freon 11	10	57	Not Detected	Not Detected
1,1-Dichloroethene	10	40	18	72
Freon 113	10	78	120	940
Methylene Chloride	10	35	Not Detected	Not Detected
1,1-Dichloroethane	10	41	Not Detected	Not Detected
cis-1,2-Dichloroethene	10	40	Not Detected	Not Detected
Chloroform	10	50	64	320
1,1,1-Trichloroethane	10	55	Not Detected	Not Detected
Carbon Tetrachloride	10	64	110	700
Benzene	10	32	Not Detected	Not Detected
1,2-Dichloroethane	10	41	Not Detected	Not Detected
Trichloroethene	10	55	1400	7600
1,2-Dichloropropane	10	47	Not Detected	Not Detected
cis-1,3-Dichloropropene	10	46	Not Detected	Not Detected
Toluene	10	38	Not Detected	Not Detected
trans-1,3-Dichloropropene	10	46	Not Detected	Not Detected
1,1,2-Trichloroethane	10	55	Not Detected	Not Detected
Tetrachloroethene	10	69	46	320
1,2-Dibromoethane (EDB)	10	78	Not Detected	Not Detected
Chlorobenzene	10	47	Not Detected	Not Detected
Ethyl Benzene	10	44	Not Detected	Not Detected
m,p-Xylene	10	44	Not Detected	Not Detected
o-Xylene	10	44	Not Detected	Not Detected
Styrene	10	43	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	10	70	Not Detected	Not Detected
1,3,5-Trimethylbenzene	10	50	Not Detected	Not Detected
1,2,4-Trimethylbenzene	10	50	Not Detected	Not Detected
1,3-Dichlorobenzene	10	61	Not Detected	Not Detected
1,4-Dichlorobenzene	10	61	Not Detected	Not Detected
alpha-Chlorotoluene	10	53	Not Detected	Not Detected
1,2-Dichlorobenzene	10	61	Not Detected	Not Detected
1,2,4-Trichlorobenzene	40	300	Not Detected	Not Detected
Hexachlorobutadiene	40	430	Not Detected	Not Detected
Propylene	40	70	3300	5800
1,3-Butadiene	40	90	Not Detected	Not Detected
Acetone	40	96	2600	6400

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-001-002

ID#: 0305553-02A

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

File Name:	b053024	Date of Collection:	5/28/03
Dil. Factor:	20.0	Date of Analysis:	5/31/03

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	40	130	Not Detected	Not Detected
2-Propanol	40	100	420	1000
trans-1,2-Dichloroethene	40	160	Not Detected	Not Detected
Vinyl Acetate	40	140	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	40	120	880	2600
Hexane	40	140	Not Detected	Not Detected
Tetrahydrofuran	40	120	430	1300
Cyclohexane	40	140	Not Detected	Not Detected
1,4-Dioxane	40	150	Not Detected	Not Detected
Bromodichloromethane	40	270	Not Detected	Not Detected
4-Methyl-2-pentanone	40	170	Not Detected	Not Detected
2-Hexanone	40	170	Not Detected	Not Detected
Dibromochloromethane	40	350	Not Detected	Not Detected
Bromoform	40	420	Not Detected	Not Detected
4-Ethyltoluene	40	200	Not Detected	Not Detected
Ethanol	40	77	130	250
Methyl tert-butyl ether	40	150	Not Detected	Not Detected
Heptane	40	170	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-001-002 Duplicate

ID#: 0305553-02AA

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

File Name:	b053023	Date of Collection:	5/28/03
Dil. Factor:	20.0	Date of Analysis:	5/31/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	10	50	12	60
Freon 114	10	71	Not Detected	Not Detected
Chloromethane	10	21	Not Detected	Not Detected
Vinyl Chloride	10	26	Not Detected	Not Detected
Bromomethane	10	39	Not Detected	Not Detected
Chloroethane	10	27	Not Detected	Not Detected
Freon 11	10	57	Not Detected	Not Detected
1,1-Dichloroethene	10	40	19	77
Freon 113	10	78	130	1000
Methylene Chloride	10	35	Not Detected	Not Detected
1,1-Dichloroethane	10	41	Not Detected	Not Detected
cis-1,2-Dichloroethene	10	40	Not Detected	Not Detected
Chloroform	10	50	66	330
1,1,1-Trichloroethane	10	55	Not Detected	Not Detected
Carbon Tetrachloride	10	64	120	740
Benzene	10	32	Not Detected	Not Detected
1,2-Dichloroethane	10	41	Not Detected	Not Detected
Trichloroethene	10	55	1400	7700
1,2-Dichloropropane	10	47	Not Detected	Not Detected
cis-1,3-Dichloropropene	10	46	Not Detected	Not Detected
Toluene	10	38	Not Detected	Not Detected
trans-1,3-Dichloropropene	10	46	Not Detected	Not Detected
1,1,2-Trichloroethane	10	55	Not Detected	Not Detected
Tetrachloroethene	10	69	46	320
1,2-Dibromoethane (EDB)	10	78	Not Detected	Not Detected
Chlorobenzene	10	47	Not Detected	Not Detected
Ethyl Benzene	10	44	Not Detected	Not Detected
m,p-Xylene	10	44	Not Detected	Not Detected
o-Xylene	10	44	Not Detected	Not Detected
Styrene	10	43	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	10	70	Not Detected	Not Detected
1,3,5-Trimethylbenzene	10	50	Not Detected	Not Detected
1,2,4-Trimethylbenzene	10	50	Not Detected	Not Detected
1,3-Dichlorobenzene	10	61	Not Detected	Not Detected
1,4-Dichlorobenzene	10	61	Not Detected	Not Detected
alpha-Chlorotoluene	10	53	Not Detected	Not Detected
1,2-Dichlorobenzene	10	61	Not Detected	Not Detected
1,2,4-Trichlorobenzene	40	300	Not Detected	Not Detected
Hexachlorobutadiene	40	430	Not Detected	Not Detected
Propylene	40	70	3200	5700
1,3-Butadiene	40	90	Not Detected	Not Detected
Acetone	40	96	2800	6700

AIR TOXICS LTD.

SAMPLE NAME: VE04-B-001-002 Duplicate

ID#: 0305553-02AA

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

File Name:	b053023	Date of Collection: 5/28/03
Dil. Factor:	20.0	Date of Analysis: 5/31/03

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	40	130	Not Detected	Not Detected
2-Propanol	40	100	440	1100
trans-1,2-Dichloroethene	40	160	Not Detected	Not Detected
Vinyl Acetate	40	140	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	40	120	940	2800
Hexane	40	140	Not Detected	Not Detected
Tetrahydrofuran	40	120	450	1400
Cyclohexane	40	140	Not Detected	Not Detected
1,4-Dioxane	40	150	Not Detected	Not Detected
Bromodichloromethane	40	270	Not Detected	Not Detected
4-Methyl-2-pentanone	40	170	Not Detected	Not Detected
2-Hexanone	40	170	Not Detected	Not Detected
Dibromochloromethane	40	350	Not Detected	Not Detected
Bromoform	40	420	Not Detected	Not Detected
4-Ethyltoluene	40	200	Not Detected	Not Detected
Ethanol	40	77	130	250
Methyl tert-butyl ether	40	150	Not Detected	Not Detected
Heptane	40	170	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-C-001-003

ID#: 0305553-03A

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

File Name:	b053025	Date of Collection:	5/28/03
Dil. Factor:	13.3	Date of Analysis:	5/31/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	6.6	33	81	410
Freon 114	6.6	47	Not Detected	Not Detected
Chloromethane	6.6	14	Not Detected	Not Detected
Vinyl Chloride	6.6	17	Not Detected	Not Detected
Bromomethane	6.6	26	Not Detected	Not Detected
Chloroethane	6.6	18	14	38
Freon 11	6.6	38	Not Detected	Not Detected
1,1-Dichloroethene	6.6	27	6.8	27
Freon 113	6.6	52	55	430
Methylene Chloride	6.6	23	Not Detected	Not Detected
1,1-Dichloroethane	6.6	27	Not Detected	Not Detected
cis-1,2-Dichloroethene	6.6	27	Not Detected	Not Detected
Chloroform	6.6	33	27	130
1,1,1-Trichloroethane	6.6	37	Not Detected	Not Detected
Carbon Tetrachloride	6.6	42	46	300
Benzene	6.6	22	Not Detected	Not Detected
1,2-Dichloroethane	6.6	27	Not Detected	Not Detected
Trichloroethene	6.6	36	490	2700
1,2-Dichloropropane	6.6	31	Not Detected	Not Detected
cis-1,3-Dichloropropene	6.6	31	Not Detected	Not Detected
Toluene	6.6	25	Not Detected	Not Detected
trans-1,3-Dichloropropene	6.6	31	Not Detected	Not Detected
1,1,2-Trichloroethane	6.6	37	Not Detected	Not Detected
Tetrachloroethene	6.6	46	19	130
1,2-Dibromoethane (EDB)	6.6	52	Not Detected	Not Detected
Chlorobenzene	6.6	31	Not Detected	Not Detected
Ethyl Benzene	6.6	29	Not Detected	Not Detected
m,p-Xylene	6.6	29	Not Detected	Not Detected
o-Xylene	6.6	29	Not Detected	Not Detected
Styrene	6.6	29	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	6.6	46	Not Detected	Not Detected
1,3,5-Trimethylbenzene	6.6	33	Not Detected	Not Detected
1,2,4-Trimethylbenzene	6.6	33	Not Detected	Not Detected
1,3-Dichlorobenzene	6.6	41	Not Detected	Not Detected
1,4-Dichlorobenzene	6.6	41	Not Detected	Not Detected
alpha-Chlorotoluene	6.6	35	Not Detected	Not Detected
1,2-Dichlorobenzene	6.6	41	Not Detected	Not Detected
1,2,4-Trichlorobenzene	27	200	Not Detected	Not Detected
Hexachlorobutadiene	27	290	Not Detected	Not Detected
Propylene	27	46	270	480
1,3-Butadiene	27	60	Not Detected	Not Detected
Acetone	27	64	2100	5000

AIR TOXICS LTD.

SAMPLE NAME: VE04-C-001-003

ID#: 0305553-03A

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

File Name:	b053025	Date of Collection: 5/28/03
Dil. Factor:	13.3	Date of Analysis: 5/31/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	27	84	Not Detected	Not Detected
2-Propanol	27	66	300	750
trans-1,2-Dichloroethene	27	110	Not Detected	Not Detected
Vinyl Acetate	27	95	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	27	80	1100	3200
Hexane	27	95	Not Detected	Not Detected
Tetrahydrofuran	27	80	1500	4500
Cyclohexane	27	93	Not Detected	Not Detected
1,4-Dioxane	27	97	Not Detected	Not Detected
Bromodichloromethane	27	180	Not Detected	Not Detected
4-Methyl-2-pentanone	27	110	Not Detected	Not Detected
2-Hexanone	27	110	Not Detected	Not Detected
Dibromochloromethane	27	230	Not Detected	Not Detected
Bromoform	27	280	Not Detected	Not Detected
4-Ethyltoluene	27	130	Not Detected	Not Detected
Ethanol	27	51	99	190
Methyl tert-butyl ether	27	97	Not Detected	Not Detected
Heptane	27	110	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-001-004

ID#: 0305553-04A

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

File Name:	b053029	Date of Collection:	5/28/03
Dil. Factor:	8.00	Date of Analysis:	5/31/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	4.0	20	150	770
Freon 114	4.0	28	Not Detected	Not Detected
Chloromethane	4.0	8.4	Not Detected	Not Detected
Vinyl Chloride	4.0	10	Not Detected	Not Detected
Bromomethane	4.0	16	Not Detected	Not Detected
Chloroethane	4.0	11	Not Detected	Not Detected
Freon 11	4.0	23	5.5	32
1,1-Dichloroethene	4.0	16	11	45
Freon 113	4.0	31	86	670
Methylene Chloride	4.0	14	Not Detected	Not Detected
1,1-Dichloroethane	4.0	16	Not Detected	Not Detected
cis-1,2-Dichloroethene	4.0	16	Not Detected	Not Detected
Chloroform	4.0	20	43	210
1,1,1-Trichloroethane	4.0	22	6.0	33
Carbon Tetrachloride	4.0	26	70	450
Benzene	4.0	13	Not Detected	Not Detected
1,2-Dichloroethane	4.0	16	Not Detected	Not Detected
Trichloroethene	4.0	22	870	4800
1,2-Dichloropropane	4.0	19	Not Detected	Not Detected
cis-1,3-Dichloropropene	4.0	18	Not Detected	Not Detected
Toluene	4.0	15	5.9	23
trans-1,3-Dichloropropene	4.0	18	Not Detected	Not Detected
1,1,2-Trichloroethane	4.0	22	Not Detected	Not Detected
Tetrachloroethene	4.0	28	39	270
1,2-Dibromoethane (EDB)	4.0	31	Not Detected	Not Detected
Chlorobenzene	4.0	19	Not Detected	Not Detected
Ethyl Benzene	4.0	18	Not Detected	Not Detected
m,p-Xylene	4.0	18	Not Detected	Not Detected
o-Xylene	4.0	18	Not Detected	Not Detected
Styrene	4.0	17	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	4.0	28	Not Detected	Not Detected
1,3,5-Trimethylbenzene	4.0	20	Not Detected	Not Detected
1,2,4-Trimethylbenzene	4.0	20	Not Detected	Not Detected
1,3-Dichlorobenzene	4.0	24	Not Detected	Not Detected
1,4-Dichlorobenzene	4.0	24	Not Detected	Not Detected
alpha-Chlorotoluene	4.0	21	Not Detected	Not Detected
1,2-Dichlorobenzene	4.0	24	Not Detected	Not Detected
1,2,4-Trichlorobenzene	16	120	Not Detected	Not Detected
Hexachlorobutadiene	16	170	Not Detected	Not Detected
Propylene	16	28	400	710
1,3-Butadiene	16	36	Not Detected	Not Detected
Acetone	16	39	890	2100

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-001-004

ID#: 0305553-04A

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

File Name:	b053029	Date of Collection:	5/28/03
Dil. Factor:	8.00	Date of Analysis:	5/31/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	16	51	Not Detected	Not Detected
2-Propanol	16	40	120	310
trans-1,2-Dichloroethene	16	64	Not Detected	Not Detected
Vinyl Acetate	16	57	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	48	320	970
Hexane	16	57	Not Detected	Not Detected
Tetrahydrofuran	16	48	190	580
Cyclohexane	16	56	Not Detected	Not Detected
1,4-Dioxane	16	59	Not Detected	Not Detected
Bromodichloromethane	16	110	Not Detected	Not Detected
4-Methyl-2-pentanone	16	67	Not Detected	Not Detected
2-Hexanone	16	67	Not Detected	Not Detected
Dibromochloromethane	16	140	Not Detected	Not Detected
Bromoform	16	170	Not Detected	Not Detected
4-Ethyltoluene	16	80	Not Detected	Not Detected
Ethanol	16	31	37	70
Methyl tert-butyl ether	16	59	Not Detected	Not Detected
Heptane	16	67	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

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

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-001-005

ID#: 0305553-05A

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

File Name:	b053028	Date of Collection:	5/28/03
Dil. Factor:	1.00	Date of Analysis:	5/31/03

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	39	200
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	16	42
Freon 11	0.50	2.8	73	420
1,1-Dichloroethane	0.50	2.0	0.73	2.9
Freon 113	0.50	3.9	34	270
Methylene Chloride	0.50	1.8	2.1	7.6
1,1-Dichloroethane	0.50	2.0	1.0	4.2
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	1.0	5.1
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	1.4	9.2
Benzene	0.50	1.6	0.99	3.2
1,2-Dichloroethane	0.50	2.0	0.55	2.3
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	1.6	6.3
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	0.63	2.8
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	130	310

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-001-005

ID#: 0305553-05A

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

File Name:	b053028	Date of Collection:	5/28/03
Dil. Factor:	1.00	Date of Analysis:	5/31/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	31	77
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	70	210
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	23	69
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	4.7	20
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	8.9	17
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	4.9	20

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0305553-06A

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

File Name:	b053020	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/30/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0305553-06A

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

File Name:	b053020	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/03

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: NA - Not Applicable

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

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0305553-07A

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

File Name:	b053016	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/03

Compound	%Recovery
Freon 12	110
Freon 114	119
Chloromethane	112
Vinyl Chloride	133 Q
Bromomethane	118
Chloroethane	133 Q
Freon 11	102
1,1-Dichloroethene	108
Freon 113	115
Methylene Chloride	108
1,1-Dichloroethane	108
cis-1,2-Dichloroethene	111
Chloroform	106
1,1,1-Trichloroethane	107
Carbon Tetrachloride	107
Benzene	101
1,2-Dichloroethane	114
Trichloroethene	105
1,2-Dichloropropane	108
cis-1,3-Dichloropropene	108
Toluene	107
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	111
Tetrachloroethene	116
1,2-Dibromoethane (EDB)	108
Chlorobenzene	111
Ethyl Benzene	110
m,p-Xylene	109
o-Xylene	113
Styrene	103
1,1,2,2-Tetrachloroethane	109
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	115
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	120
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	113
Propylene	123
1,3-Butadiene	102
Acetone	108

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0305553-07A

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

File Name:	b053016	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/30/03

Compound	%Recovery
Carbon Disulfide	103
2-Propanol	103
trans-1,2-Dichloroethene	104
Vinyl Acetate	107
2-Butanone (Methyl Ethyl Ketone)	108
Hexane	107
Tetrahydrofuran	106
Cyclohexane	106
1,4-Dioxane	99
Bromodichloromethane	106
4-Methyl-2-pentanone	104
2-Hexanone	104
Dibromochloromethane	108
Bromoform	117
4-Ethyltoluene	112
Ethanol	115
Methyl tert-butyl ether	95
Heptane	111

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0305553-08A

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

File Name:	b053017	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/03

Compound	%Recovery
Freon 12	108
Freon 114	123
Chloromethane	108
Vinyl Chloride	131 Q
Bromomethane	133 Q
Chloroethane	131 Q
Freon 11	98
1,1-Dichloroethene	99
Freon 113	104
Methylene Chloride	101
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	103
Chloroform	99
1,1,1-Trichloroethane	98
Carbon Tetrachloride	106
Benzene	110
1,2-Dichloroethane	112
Trichloroethene	111
1,2-Dichloropropane	109
cis-1,3-Dichloropropene	126
Toluene	110
trans-1,3-Dichloropropene	126
1,1,2-Trichloroethane	109
Tetrachloroethene	122
1,2-Dibromoethane (EDB)	99
Chlorobenzene	112
Ethyl Benzene	106
m,p-Xylene	105
o-Xylene	99
Styrene	115
1,1,2,2-Tetrachloroethane	95
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	138 Q
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	108
Propylene	109
1,3-Butadiene	86
Acetone	101

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0305553-08A

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

File Name:	b053017	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/03

Compound	%Recovery
Carbon Disulfide	106
2-Propanol	102
trans-1,2-Dichloroethene	107
Vinyl Acetate	106
2-Butanone (Methyl Ethyl Ketone)	99
Hexane	103
Tetrahydrofuran	102
Cyclohexane	101
1,4-Dioxane	106
Bromodichloromethane	105
4-Methyl-2-pentanone	104
2-Hexanone	101
Dibromochloromethane	108
Bromoform	92
4-Ethyltoluene	99
Ethanol	112
Methyl tert-butyl ether	96
Heptane	110

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0305553-08AA

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

File Name:	b053018	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/03

Compound	%Recovery
Freon 12	111
Freon 114	127
Chloromethane	110
Vinyl Chloride	131 Q
Bromomethane	136 Q
Chloroethane	133 Q
Freon 11	102
1,1-Dichloroethene	102
Freon 113	109
Methylene Chloride	105
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	108
Chloroform	103
1,1,1-Trichloroethane	103
Carbon Tetrachloride	112
Benzene	112
1,2-Dichloroethane	117
Trichloroethene	112
1,2-Dichloropropane	110
cis-1,3-Dichloropropene	127
Toluene	111
trans-1,3-Dichloropropene	127
1,1,2-Trichloroethane	113
Tetrachloroethene	124
1,2-Dibromoethane (EDB)	100
Chlorobenzene	112
Ethyl Benzene	110
m,p-Xylene	105
o-Xylene	101
Styrene	120
1,1,2,2-Tetrachloroethane	100
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	138 Q
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	120
Propylene	108
1,3-Butadiene	89
Acetone	107