January 16, 2002

Mr. Michael Schmoller
WDNR South Central Region Office
3911 Fish Hatchery Road
Fitchburg, WI 53711

SUBJECT: **Annual Landfill Gas Vent Monitoring Report**
September 2001 Monitoring Event
Stoughton City Landfill
FID # 113005950 - License #133
WDNR Project # J-036-02
BT² Project #1764

Dear Mr. Schmoller:

This letter provides the Annual Landfill Gas (LFG) Vent Monitoring Report for the September 2001 monitoring event at the Stoughton City Landfill site. The passive gas vents were sampled on September 27, 2001.

Scope and Methods

The objectives of the passive gas vent monitoring are:

- Monitor the concentration of the various gases passively vented from the landfill.
- Verify that the air emissions from the passive gas vents do not exceed the regulatory levels found in the applicable provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP), and chapter NR 445, Wisconsin Administrative Code (WAC).

Five passive gas vents were randomly chosen for the second year sampling. See the attached Site Map for the passive gas vent well locations. Three days prior to the sampling event (September 25, 2001) an airtight stainless steel well cap with a ¼-inch barbed fitting was placed on each of the five gas vents. The LMS_X Landfill Gas Meter was used to purge each gas vent and to monitor for percent of the lower explosive level (LEL) as methane, percent oxygen, and flow. Readings were collected each minute to verify gas stability. Samples for laboratory analysis were collected using Summa Cannisters. For each individual Summa Cannister, the initial vacuum, start time, end vacuum, and end time were recorded, as shown on **Table 1**.

The field procedures for the gas vent sampling were performed in accordance with the Quality Assurance Project Plan (QAPP) Revision 0 submitted to the WDNR on September 15, 2000. The passive gas vent samples were analyzed by Air Toxics, Ltd. of Folsom, CA for EPA Method TO-14 Volatile Organic Compounds (VOCs) using a GC/MS in full scan mode. A copy of the laboratory's Standard Operating Procedures (SOP) is included in the QAPP as Appendix B.

Air Toxics, Ltd. informed us on December 4, 2001 that, due to a laboratory error, the analytical data for GV-9 was unuseable. BT[2] conferred with you by phone and decided to resample. Three days prior to the sampling event (December 10, 2001) an airtight stainless steel well cap with a 1/4-inch barbed fitting was placed on the gas vent. The LMS_X Landfill Gas Meter was used to purge the gas vent and to monitor for percent of the lower explosive level (LEL) as methane, percent oxygen, and flow. Readings were collected each minute to verify gas stability. The sample for laboratory analysis was collected using a Summa Cannister. The Summa Cannisters initial vacuum, start time, end vacuum, and end time were recorded, as shown on **Table 1**.

Passive Gas Vent Well Analytical Results

Table 1 is a summary of the weather and field measurements collected during gas vent sampling. **Table 2** is a summary of analytical results for the passive gas vent sampling at the site. The original analytical report is included as **Attachment A**.

Laboratory Qualifiers

Gas vent sample GV-10 was flagged "J" , Estimated value, for trichloroethene with a concentration of 1.8 ppbv. The reporting limit for trichloroethene is 1.8 ppbv. No other qualifiers were used.

Volatile Organic Compounds Detected

GV-9

Detections included:

- Freon 12 at 160 ppbv
- Freon 114 at 2.9 ppbv
- Chloroethane at 0.97 ppbv
- cis-1,2-Dichloroethene at 3.3 ppbv
- Chloroform at 1.0 ppbv
- Benzene at 1.3 ppbv
- Trichloroethene at 2.7 ppbv
- 1,2-Dichloropropane at 0.95 ppbv
- Toluene at 60 ppbv
- Tetrachloroethene at 5.9 ppbv
- Ethlybenzene at 29 ppbv
- m,p-Xylene at 60 ppbv
- o-Xylene at 23 ppbv
- Styrene at 2.2 ppbv
- 1,3,5-Trimethylbenzene at 5.3 ppbv
- 1,2,4-Trimethylbenzene at 13 ppbv
- 1,4-Dichlorobenzene at 1.3 ppbv
- Acetone at 6.9 ppbv
- 2-Butanone (MEK) at 3.6 ppbv
- Tetrahydrofuran at 50 ppbv
- Cyclohexane at 4.1 ppbv
- 4-Ethyltoluene at 11 ppbv
- Heptane at 4.2 ppbv

GV-10
Detections included:

- Freon 12 at 140 ppbv
- Freon 114 at 2.1 ppbv
- Trichloroethene at 1.8 ppbv
- Toluene at 27 ppbv
- Tetrachlorethene at 6.0 ppbv
- Ethylbenzene at 16 ppbv
- m,p-Xylene at 41 ppbv
- o-Xylene at 12 ppbv
- Styrene at 2.2 ppbv
- 1,3,5-Trimethylbenzene at 3.9 ppbv
- 1,2,4-Trimethylbenzene at 11 ppbv
- 1,4-Dichlorobenzene at 2.9 ppbv
- Acetone at 350 ppbv
- 2-Butanone (MEK) at 79 ppbv
- Tetrahydrofuran at 360 ppbv
- 4-Ethyltoluene at 10 ppbv

GV-12
Detections included:

- Freon 12 at 42 ppbv
- Freon 114 at 11 ppbv
- Chloroethane at 20 ppbv
- Freon 11 at 16 ppbv
- Toluene at 16 ppbv
- Tetrachloroethene at 36 ppbv
- Ethylbenzene at 9.1 ppbv
- m,p-Xylene at 22 ppbv
- Acetone at 3,000 ppbv
- 2-Propanol at 210 ppbv
- 2-Butanone (MEK) at 83 ppbv
- Hexane at 55 ppbv
- Tetrahydrofuran at 470 ppbv

GV-13
Detections included:

- Freon 12 at 5,800 ppbv
- Freon 114 at 30 ppbv
- Freon 11 at 110 ppbv
- Acetone at 3,100 ppbv
- Hexane at 520 ppbv
- Tetrahydrofuran at 340 ppbv

GV-20
Detections included:

- Freon 12 at 27 ppbv
- Freon 11 at 2.4 ppbv
- Methylene chloride at 3.0 ppbv
- Toluene at 8.7 ppbv
- Tetrachloroethene at 3.2 ppbv
- Ethylbenzene at 5.7 ppbv
- m,p-Xylene at 14 ppbv
- o-Xylene at 4.6 ppbv
- 1,2,4-trimethylbenzene at 4.4 ppbv
- Acetone at 100 ppbv
- Carbon disulfide at 8.7 ppbv
- 2-Propanol at 11 ppbv
- 2-Butanone (MEK) at 16 ppbv
- Hexane at 14 ppbv
- Tetrahydrofuran at 600 ppbv

Trip Blank
Detections included toluene at 0.62 ppbv, and m,p-xylene at 1.0 ppbv. The trip blank sample was run without dilution while all of the gas vent samples were run at varying dilutions (GV-9 at 1.55, GV-10 at 3.66, GV-12 at 16.8, GV-13 at 59.6, and GV-20 at 4.13). Depending on the source of the toluene and xylene in the trip blank, it is possible that the reported toluene an xylene levels in the gas vent samples are at least partially due to laboratory contamination.

Sampling Plan Deviations

No deviations were made from the Sampling Plan and Field Procedures listed in the QAPP.

Emissions Estimation

The chapter NR 445, Wisconsin Administrative Code (WAC) Hazardous Air Contaminant Acceptable Ambient Concentrations table lists limits for methylene chloride at 8.7456 lbs/hr and THF at 49.1352 lbs/hr. No flow was detectable at the passive gas vents at the time the samples were collected, so no emissions could be estimated. However, as barometric pressure changes, the individual gas vents may be "inhaling" or "exhaling" gasses. Additionally, the flow rate from the entire facility cannot be estimated based on the passive vents. Although some emissions may be occurring, it is very unlikely that the landfill gas emissions exceed the NR 445 standards based on research and the historic inefficiency of passive gas vents.

The next Annual Landfill Gas Vent Monitoring event is scheduled for September 2002. A CD-ROM is also enclosed containing a copy of this report as a PDF file. Please call us at (608) 224-2830 if you have any questions.

Sincerely,
BT^2, Inc.

Sherren Clark, P.E., P.G.	Jan C. Kucher, P.E.	Steven B. Smith
Quality Assurance/ Senior Review	Project Manager	Senior Technical Specialist

Enclosed: CD-ROM
Site Map
Table 1 - Summa Cannister Field Data
Table 2 - Summary of Analytical Results
Attachment A - Laboratory Analytical Report

I:\1764\Reports\Gas Vent Reports\020104PassGasReport2.wpd

Table 1
Annual Passive Gas Vent Sampling
Summa Cannister Field Data
Stoughton City Landfill / BT² Project #1764

Passive Gas Vent GV-9
Start time = 11:30 am
End Time = 12:00 pm
Starting Vacuum = -28" Hg
Vacuum at 10 minutes = -16" Hg
Vacuum at 20 minutes = -6" Hg
End Vacuum = -2.5" Hg
Flow = 0 m^3/hr.
Date = **12/13/01**

Passive Gas Vent GV-10
Start time = 12:30 pm
End Time = 13:00 pm
Starting Vacuum = -30" Hg
Vacuum at 10 minutes = -21.5" Hg
Vacuum at 20 minutes = -14.5" Hg
End Vacuum = -9" Hg
Flow = 0 m^3/hr.
Date = **9/27/01**

Passive Gas Vent GV-12
Start time = 13:20 pm
End Time = 13:50 pm
Starting Vacuum = -28.5" Hg
Vacuum at 10 minutes = -19.5" Hg
Vacuum at 20 minutes = -11" Hg
End Vacuum = -6" Hg
Flow = 0 m^3/hr.
Date = **9/27/01**

Passive Gas Vent GV-13
Start time = 14:25 pm
End Time = 14:55 pm
Starting Vacuum = -30" Hg
Vacuum at 10 minutes = -16" Hg
Vacuum at 20 minutes = -8" Hg
End Vacuum = -3.5" Hg
Flow = 0 m^3/hr.
Date = **9/27/01**

Passive Gas Vent GV-20
Start time = 15:10 pm
End time = 15:40 pm
Starting Vacuum = -30" Hg
Vacuum at 10 minutes = -19.5" Hg
Vacuum at 20 minutes = -10.5" Hg
End Vacuum = -4.5" Hg
Flow = 0 m^3/hr.
Date = **9/27/01**

Weather
Date = **9/27/01**
Barometric Pressure = 30.12" Hg
Temperature = 59 °F
Ground Surface = Dry
Conditions = Sunny, clear, 6.9 mph wind from the west
Equipment = LMS_X Landfill Gas Meter, Thermo Environmental PID
Operator = Steven Smith

Date = **12/13/01**
Barometric Pressure = 29.94" Hg
Temperature = 33 °F
Ground Surface = Wet and soft
Conditions = Cloudy, breezy, cool, 8 mph wind from the west
Equipment = LMS_X Landfill Gas Meter, Thermo Environmental PID
Operator = Steven Smith

Table 2
Annual Landfill Gas Monitoring Results
Stoughton City Landfill
BT² Project #1764
September 2001

	Sample Name: GV-9		Sample Name: GV-10		Sample Name: GV-12		Sample Name: GV-13		Sample Name: GV-20		Sample Name: GV-20 Duplicate		Sample Name: Lab Blank		Sample Name: Lab Blank		Sample Name: Trip Blank	
	ID #: 10112252-01A		ID #: 10110012-03A		ID #: 10110012-04A		ID #: 10110012-05A		ID #: 10110012-06A		ID #: 10110012-06AA		ID #: 10110012-07A		ID #: 10112252-02A		ID #: 10110012-01A	
	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount
Compound	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)
Freon 12	3.0	**160**	1.8	**140**	8.4	**300**	30	**5,800**	2.1	**27**	2.1	**27**	0.50	ND	0.50	ND	0.50	ND
Freon 114	3.0	**2.9**	1.8	**2.1**	8.4	**11**	30	**30**	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Chloromethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Vinyl chloride	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Bromomethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Chloroethane	3.0	**0.97**	1.8	ND	8.4	**20**	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Freon 11	3.0	ND	1.8	ND	8.4	**16**	30	**110**	2.1	**2.4**	2.1	**2.4**	0.50	ND	0.50	ND	0.50	ND
1,1-Dichloroethene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Freon 113	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Methylene Chloride	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	**3**	2.1	**3.0**	0.50	ND	0.50	ND	0.50	ND
1,1-Dichloroethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
cis-1,2-Dichloroethene	3.0	**3.3**	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Chloroform	3.0	**1**	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,1,1-Trichloroethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Carbon Tetrachloride	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Benzene	3.0	**1.3**	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dichloroethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Trichloroethene	3.0	**2.7**	1.8	**1.8 J**	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dichloropropane	3.0	**0.95**	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
cis-1,3-Dichloropropene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	3.0	**60**	1.8	**27**	8.4	**16**	30	ND	2.1	**8.7**	2.1	**8.6**	0.50	ND	0.50	ND	0.50	**0.62**
trans-1,3-Dichloropropene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,1,2-Trichloroethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Tetrachloroethene	3.0	**5.9**	1.8	**6.0**	8.4	**36**	30	ND	2.1	**3.2**	2.1	**3.4**	0.50	ND	0.50	ND	0.50	ND
Ethylene Dibromide	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Chlorobenzene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	3.0	**29**	1.8	**16**	8.4	**9.1**	30	ND	2.1	**5.7**	2.1	**5.5**	0.50	ND	0.50	ND	0.50	ND
m,p-Xylene	3.0	**60**	1.8	**41**	8.4	**22**	30	ND	2.1	**14**	2.1	**14**	0.50	ND	0.50	ND	0.50	**1.0**
o-Xylene	3.0	**23**	1.8	**12**	8.4	ND	30	ND	2.1	**4.6**	2.1	**4.4**	0.50	ND	0.50	ND	0.50	ND
Styrene	3.0	**2.2**	1.8	**2.2**	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,1,2,2-Tetrachloroethane	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,3,5-Trimethylbenzene	3.0	**5.3**	1.8	**3.9**	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,2,4-Trimethylbenzene	3.0	**13**	1.8	**11**	8.4	ND	30	ND	2.1	**4.4**	2.1	**4.5**	0.50	ND	0.50	ND	0.50	ND
1,3-Dichlorobenzene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,4-Dichlorobenzene	3.0	**1.3**	1.8	**2.9**	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Chlorotoluene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dichlorobenzene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
1,2,4-Trichlorobenzene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Hexachlorobutadiene	3.0	ND	1.8	ND	8.4	ND	30	ND	2.1	ND	2.1	ND	0.50	ND	0.50	ND	0.50	ND
Propylene	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
1,3-Butadiene	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Acetone	12	**6.9**	7.3	**350**	34	**3,000**	120	**3,100**	8.3	**100**	8.3	**100**	2.0	ND	2.0	ND	2.0	ND
Carbon Disulfide	12	ND	7.3	ND	34	ND	120	ND	8.3	**8.7**	8.3	**8.7**	2.0	ND	2.0	ND	2.0	ND
2-Propanol	12	ND	7.3	ND	34	**210**	120	ND	8.3	**11**	8.3	**10**	2.0	ND	2.0	ND	2.0	ND
trans-1,2-Dichloroethene	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Vinyl Acetate	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
2-Butanone (Methyl Ethyl Ketone)	12	**3.6**	7.3	**79**	34	**83**	120	ND	8.3	**16**	8.3	**15**	2.0	ND	2.0	ND	2.0	ND

Table 2
Annual Landfill Gas Monitoring Results
Stoughton City Landfill
BT² Project #1764
September 2001

	Sample Name: GV-9		Sample Name: GV-10		Sample Name: GV-12		Sample Name: GV-13		Sample Name: GV-20		Sample Name: GV-20 Duplicate		Sample Name: Lab Blank		Sample Name: Lab Blank		Sample Name: Trip Blank	
	ID #: 011252-01A		ID #: 011012-03A		ID #: 011012-04A		ID #: 011012-05A		ID #: 011012-06A		ID #: 011012-06AA		ID #: 011012-07A		ID #: 011252-02A		ID #: 011012-01A	
	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount
Compound	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)
Hexane	12	ND	7.3	ND	34	**55**	120	**520**	8.3	**14**	8.3	**15**	2.0	ND	2.0	ND	2.0	ND
Tetrahydrofuran	12	**50**	7.3	**360**	34	**470**	120	**340**	8.3	**600**	8.3	**610**	2.0	ND	2.0	ND	2.0	ND
Cyclohexane	12	**4.1**	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
1,4-Dioxane	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Bromodichloromethane	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
4-Methyl-2-pentanone	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
2-Hexanone	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Dibromochloromethane	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Bromoform	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
4-Ethyltoluene	12	**11**	7.3	**10**	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Ethanol	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Methyl tert-Butyl Ether	12	ND	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND
Heptane	12	**4.2**	7.3	ND	34	ND	120	ND	8.3	ND	8.3	ND	2.0	ND	2.0	ND	2.0	ND

ABBREVIATIONS:
ND = Not Detected
J = Estimated value

Date: 1/4/02
By: LH
Checked By: SS

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0110012

Work Order Summary

CLIENT:	Ms. Jan Kucher BT Squared 2830 Dairy Drive Madison, WI 53718	BILL TO:	Ms. Jan Kucher BT Squared 2830 Dairy Drive Madison, WI 53718
PHONE:	608-224-2830	P.O. #	
FAX:	608-224-2839	PROJECT #	#1764 Stoughton City L.F.
DATE RECEIVED:	10/1/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	10/15/01		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	Trip Blank (427)	TO-14	29.0 "Hg
~~02A~~ *	~~GV-9 (405)~~	~~TO-14~~	~~3.3 "Hg~~
03A	GV-10 (9422)	TO-14	8.0 "Hg
04A	GV-12 (9925)	TO-14	6.0 "Hg
05A	GV-13 (2574)	TO-14	3.0 "Hg
06A	GV-20 (922)	TO-14	4.0 "Hg
06AA	GV-20 (922) Duplicate	TO-14	4.0 "Hg
07A	Lab Blank	TO-14	NA
07B	Lab Blank	TO-14	NA
08A	LCS	TO-14	NA
08B	LCS	TO-14	NA

* Lab error. Delete
SS 1/4/02

CERTIFIED BY: Linda A. Truman DATE: 10/15/01

Laboratory Director

Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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

LABORATORY NARRATIVE
TO-14
BT Squared
Workorder# 0110012

Six 6 Liter Summa Canister samples were received on October 01, 2001. The laboratory performed analysis via EPA Method TO-14 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.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	*TO-14*	*ATL Modifications*
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven 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.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: Trip Blank (427)

ID#: 0110012-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100911	Date of Collection:	9/27/01
Dil. Factor:	1.00	Date of Analysis:	10/9/01

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	0.62	2.4
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
Ethylene Dibromide	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	1.0	4.6
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
Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.50	3.8	Not Detected	Not Detected
Hexachlorobutadiene	0.50	5.4	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: Trip Blank (427)

ID#: 0110012-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100911	Date of Collection:	9/27/01
Dil. Factor:	1.00	Date of Analysis:	10/9/01

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: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	115	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-10 (9422)

ID#: 0110012-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100913	Date of Collection:	9/27/01
Dil. Factor:	3.66	Date of Analysis:	10/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	1.8	9.2	140	700
Freon 114	1.8	13	2.1	15
Chloromethane	1.8	3.8	Not Detected	Not Detected
Vinyl Chloride	1.8	4.8	Not Detected	Not Detected
Bromomethane	1.8	7.2	Not Detected	Not Detected
Chloroethane	1.8	4.9	Not Detected	Not Detected
Freon 11	1.8	10	Not Detected	Not Detected
1,1-Dichloroethene	1.8	7.4	Not Detected	Not Detected
Freon 113	1.8	14	Not Detected	Not Detected
Methylene Chloride	1.8	6.5	Not Detected	Not Detected
1,1-Dichloroethane	1.8	7.5	Not Detected	Not Detected
cis-1,2-Dichloroethene	1.8	7.4	Not Detected	Not Detected
Chloroform	1.8	9.1	Not Detected	Not Detected
1,1,1-Trichloroethane	1.8	10	Not Detected	Not Detected
Carbon Tetrachloride	1.8	12	Not Detected	Not Detected
Benzene	1.8	5.9	Not Detected	Not Detected
1,2-Dichloroethane	1.8	7.5	Not Detected	Not Detected
Trichloroethene	1.8	10	1.8 J	9.9 J
1,2-Dichloropropane	1.8	8.6	Not Detected	Not Detected
cis-1,3-Dichloropropene	1.8	8.4	Not Detected	Not Detected
Toluene	1.8	7.0	27	100
trans-1,3-Dichloropropene	1.8	8.4	Not Detected	Not Detected
1,1,2-Trichloroethane	1.8	10	Not Detected	Not Detected
Tetrachloroethene	1.8	13	6.0	41
Ethylene Dibromide	1.8	14	Not Detected	Not Detected
Chlorobenzene	1.8	8.6	Not Detected	Not Detected
Ethyl Benzene	1.8	8.1	16	70
m,p-Xylene	1.8	8.1	41	180
o-Xylene	1.8	8.1	12	54
Styrene	1.8	7.9	2.2	9.7
1,1,2,2-Tetrachloroethane	1.8	13	Not Detected	Not Detected
1,3,5-Trimethylbenzene	1.8	9.1	3.9	20
1,2,4-Trimethylbenzene	1.8	9.1	11	54
1,3-Dichlorobenzene	1.8	11	Not Detected	Not Detected
1,4-Dichlorobenzene	1.8	11	2.9	18
Chlorotoluene	1.8	9.6	Not Detected	Not Detected
1,2-Dichlorobenzene	1.8	11	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.8	14	Not Detected	Not Detected
Hexachlorobutadiene	1.8	20	Not Detected	Not Detected
Propylene	7.3	13	Not Detected	Not Detected
1,3-Butadiene	7.3	16	Not Detected	Not Detected
Acetone	7.3	18	350	860

AIR TOXICS LTD.

SAMPLE NAME: GV-10 (9422)

ID#: 0110012-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	100913	Date of Collection:	9/27/01
Dil. Factor:	3.66	Date of Analysis:	10/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	7.3	23	Not Detected	Not Detected
2-Propanol	7.3	18	Not Detected	Not Detected
trans-1,2-Dichloroethene	7.3	29	Not Detected	Not Detected
Vinyl Acetate	7.3	26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.3	22	79	240
Hexane	7.3	26	Not Detected	Not Detected
Tetrahydrofuran	7.3	22	360	1100
Cyclohexane	7.3	26	Not Detected	Not Detected
1,4-Dioxane	7.3	27	Not Detected	Not Detected
Bromodichloromethane	7.3	50	Not Detected	Not Detected
4-Methyl-2-pentanone	7.3	30	Not Detected	Not Detected
2-Hexanone	7.3	30	Not Detected	Not Detected
Dibromochloromethane	7.3	63	Not Detected	Not Detected
Bromoform	7.3	77	Not Detected	Not Detected
4-Ethyltoluene	7.3	36	10	51
Ethanol	7.3	14	Not Detected	Not Detected
Methyl tert-Butyl Ether	7.3	27	Not Detected	Not Detected
Heptane	7.3	30	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	112	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-12 (9925)

ID#: 0110012-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101117	Date of Collection:	9/27/01
Dil. Factor:	116.8	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	8.4	42	300	1500
Freon 114	8.4	60	11	78
Chloromethane	8.4	18	Not Detected	Not Detected
Vinyl Chloride	8.4	22	Not Detected	Not Detected
Bromomethane	8.4	33	Not Detected	Not Detected
Chloroethane	8.4	22	20	53
Freon 11	8.4	48	16	92
1,1-Dichloroethene	8.4	34	Not Detected	Not Detected
Freon 113	8.4	65	Not Detected	Not Detected
Methylene Chloride	8.4	30	Not Detected	Not Detected
1,1-Dichloroethane	8.4	34	Not Detected	Not Detected
cis-1,2-Dichloroethene	8.4	34	Not Detected	Not Detected
Chloroform	8.4	42	Not Detected	Not Detected
1,1,1-Trichloroethane	8.4	46	Not Detected	Not Detected
Carbon Tetrachloride	8.4	54	Not Detected	Not Detected
Benzene	8.4	27	Not Detected	Not Detected
1,2-Dichloroethane	8.4	34	Not Detected	Not Detected
Trichloroethene	8.4	46	Not Detected	Not Detected
1,2-Dichloropropane	8.4	39	Not Detected	Not Detected
cis-1,3-Dichloropropene	8.4	39	Not Detected	Not Detected
Toluene	8.4	32	16	59
trans-1,3-Dichloropropene	8.4	39	Not Detected	Not Detected
1,1,2-Trichloroethane	8.4	46	Not Detected	Not Detected
Tetrachloroethene	8.4	58	36	240
Ethylene Dibromide	8.4	66	Not Detected	Not Detected
Chlorobenzene	8.4	39	Not Detected	Not Detected
Ethyl Benzene	8.4	37	9.1	40
m,p-Xylene	8.4	37	22	98
o-Xylene	8.4	37	Not Detected	Not Detected
Styrene	8.4	36	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	8.4	59	Not Detected	Not Detected
1,3,5-Trimethylbenzene	8.4	42	Not Detected	Not Detected
1,2,4-Trimethylbenzene	8.4	42	Not Detected	Not Detected
1,3-Dichlorobenzene	8.4	51	Not Detected	Not Detected
1,4-Dichlorobenzene	8.4	51	Not Detected	Not Detected
Chlorotoluene	8.4	44	Not Detected	Not Detected
1,2-Dichlorobenzene	8.4	51	Not Detected	Not Detected
1,2,4-Trichlorobenzene	8.4	63	Not Detected	Not Detected
Hexachlorobutadiene	8.4	91	Not Detected	Not Detected
Propylene	34	59	Not Detected	Not Detected
1,3-Butadiene	34	76	Not Detected	Not Detected
Acetone	34	81	3000	7100

AIR TOXICS LTD.

SAMPLE NAME: GV-12 (9925)

ID#: 0110012-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101117	Date of Collection:	9/27/01
Dil. Factor:	16.8	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	34	110	Not Detected	Not Detected
2-Propanol	34	84	210	540
trans-1,2-Dichloroethene	34	140	Not Detected	Not Detected
Vinyl Acetate	34	120	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	34	100	83	250
Hexane	34	120	55	200
Tetrahydrofuran	34	100	470	1400
Cyclohexane	34	120	Not Detected	Not Detected
1,4-Dioxane	34	120	Not Detected	Not Detected
Bromodichloromethane	34	230	Not Detected	Not Detected
4-Methyl-2-pentanone	34	140	Not Detected	Not Detected
2-Hexanone	34	140	Not Detected	Not Detected
Dibromochloromethane	34	290	Not Detected	Not Detected
Bromoform	34	350	Not Detected	Not Detected
4-Ethyltoluene	34	170	Not Detected	Not Detected
Ethanol	34	64	Not Detected	Not Detected
Methyl tert-Butyl Ether	34	120	Not Detected	Not Detected
Heptane	34	140	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-13 (2574)

ID#: 0110012-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101118	Date of Collection:	9/27/01
Dil. Factor:	59.6	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	30	150	5800	29000
Freon 114	30	210	30	220
Chloromethane	30	62	Not Detected	Not Detected
Vinyl Chloride	30	77	Not Detected	Not Detected
Bromomethane	30	120	Not Detected	Not Detected
Chloroethane	30	80	Not Detected	Not Detected
Freon 11	30	170	110	630
1,1-Dichloroethene	30	120	Not Detected	Not Detected
Freon 113	30	230	Not Detected	Not Detected
Methylene Chloride	30	100	Not Detected	Not Detected
1,1-Dichloroethane	30	120	Not Detected	Not Detected
cis-1,2-Dichloroethene	30	120	Not Detected	Not Detected
Chloroform	30	150	Not Detected	Not Detected
1,1,1-Trichloroethane	30	160	Not Detected	Not Detected
Carbon Tetrachloride	30	190	Not Detected	Not Detected
Benzene	30	97	Not Detected	Not Detected
1,2-Dichloroethane	30	120	Not Detected	Not Detected
Trichloroethene	30	160	Not Detected	Not Detected
1,2-Dichloropropane	30	140	Not Detected	Not Detected
cis-1,3-Dichloropropene	30	140	Not Detected	Not Detected
Toluene	30	110	Not Detected	Not Detected
trans-1,3-Dichloropropene	30	140	Not Detected	Not Detected
1,1,2-Trichloroethane	30	160	Not Detected	Not Detected
Tetrachloroethene	30	200	Not Detected	Not Detected
Ethylene Dibromide	30	230	Not Detected	Not Detected
Chlorobenzene	30	140	Not Detected	Not Detected
Ethyl Benzene	30	130	Not Detected	Not Detected
m,p-Xylene	30	130	Not Detected	Not Detected
o-Xylene	30	130	Not Detected	Not Detected
Styrene	30	130	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	30	210	Not Detected	Not Detected
1,3,5-Trimethylbenzene	30	150	Not Detected	Not Detected
1,2,4-Trimethylbenzene	30	150	Not Detected	Not Detected
1,3-Dichlorobenzene	30	180	Not Detected	Not Detected
1,4-Dichlorobenzene	30	180	Not Detected	Not Detected
Chlorotoluene	30	160	Not Detected	Not Detected
1,2-Dichlorobenzene	30	180	Not Detected	Not Detected
1,2,4-Trichlorobenzene	30	220	Not Detected	Not Detected
Hexachlorobutadiene	30	320	Not Detected	Not Detected
Propylene	120	210	Not Detected	Not Detected
1,3-Butadiene	120	270	Not Detected	Not Detected
Acetone	120	290	3100	7500

AIR TOXICS LTD.

SAMPLE NAME: GV-13 (2574)

ID#: 0110012-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101118	Date of Collection:	9/27/01
Dil. Factor:	59.6	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	120	380	Not Detected	Not Detected
2-Propanol	120	300	Not Detected	Not Detected
trans-1,2-Dichloroethene	120	480	Not Detected	Not Detected
Vinyl Acetate	120	430	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	360	Not Detected	Not Detected
Hexane	120	430	520	1900
Tetrahydrofuran	120	360	340	1000
Cyclohexane	120	420	Not Detected	Not Detected
1,4-Dioxane	120	440	Not Detected	Not Detected
Bromodichloromethane	120	810	Not Detected	Not Detected
4-Methyl-2-pentanone	120	500	Not Detected	Not Detected
2-Hexanone	120	500	Not Detected	Not Detected
Dibromochloromethane	120	1000	Not Detected	Not Detected
Bromoform	120	1200	Not Detected	Not Detected
4-Ethyltoluene	120	600	Not Detected	Not Detected
Ethanol	120	230	Not Detected	Not Detected
Methyl tert-Butyl Ether	120	440	Not Detected	Not Detected
Heptane	120	500	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-20 (922)

ID#: 0110012-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101119	Date of Collection: 9/27/01
Dil. Factor:	4.13	Date of Analysis: 10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	2.1	10	27	130
Freon 114	2.1	15	Not Detected	Not Detected
Chloromethane	2.1	4.3	Not Detected	Not Detected
Vinyl Chloride	2.1	5.4	Not Detected	Not Detected
Bromomethane	2.1	8.2	Not Detected	Not Detected
Chloroethane	2.1	5.5	Not Detected	Not Detected
Freon 11	2.1	12	2.4	14
1,1-Dichloroethene	2.1	8.3	Not Detected	Not Detected
Freon 113	2.1	16	Not Detected	Not Detected
Methylene Chloride	2.1	7.3	3.0	10
1,1-Dichloroethane	2.1	8.5	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.1	8.3	Not Detected	Not Detected
Chloroform	2.1	10	Not Detected	Not Detected
1,1,1-Trichloroethane	2.1	11	Not Detected	Not Detected
Carbon Tetrachloride	2.1	13	Not Detected	Not Detected
Benzene	2.1	6.7	Not Detected	Not Detected
1,2-Dichloroethane	2.1	8.5	Not Detected	Not Detected
Trichloroethene	2.1	11	Not Detected	Not Detected
1,2-Dichloropropane	2.1	9.7	Not Detected	Not Detected
cis-1,3-Dichloropropene	2.1	9.5	Not Detected	Not Detected
Toluene	2.1	7.9	8.7	33
trans-1,3-Dichloropropene	2.1	9.5	Not Detected	Not Detected
1,1,2-Trichloroethane	2.1	11	Not Detected	Not Detected
Tetrachloroethene	2.1	14	3.2	22
Ethylene Dibromide	2.1	16	Not Detected	Not Detected
Chlorobenzene	2.1	9.7	Not Detected	Not Detected
Ethyl Benzene	2.1	9.1	5.7	25
m,p-Xylene	2.1	9.1	14	62
o-Xylene	2.1	9.1	4.6	20
Styrene	2.1	8.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	2.1	14	Not Detected	Not Detected
1,3,5-Trimethylbenzene	2.1	10	Not Detected	Not Detected
1,2,4-Trimethylbenzene	2.1	10	4.4	22
1,3-Dichlorobenzene	2.1	13	Not Detected	Not Detected
1,4-Dichlorobenzene	2.1	13	Not Detected	Not Detected
Chlorotoluene	2.1	11	Not Detected	Not Detected
1,2-Dichlorobenzene	2.1	13	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.1	16	Not Detected	Not Detected
Hexachlorobutadiene	2.1	22	Not Detected	Not Detected
Propylene	8.3	14	Not Detected	Not Detected
1,3-Butadiene	8.3	18	Not Detected	Not Detected
Acetone	8.3	20	100	240

AIR TOXICS LTD.

SAMPLE NAME: GV-20 (922)

ID#: 0110012-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101119	Date of Collection:	9/27/01
Dil. Factor:	4.13	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	8.3	26	8.7	28
2-Propanol	8.3	21	11	27
trans-1,2-Dichloroethene	8.3	33	Not Detected	Not Detected
Vinyl Acetate	8.3	30	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.3	25	16	47
Hexane	8.3	30	14	52
Tetrahydrofuran	8.3	25	600	1800
Cyclohexane	8.3	29	Not Detected	Not Detected
1,4-Dioxane	8.3	30	Not Detected	Not Detected
Bromodichloromethane	8.3	56	Not Detected	Not Detected
4-Methyl-2-pentanone	8.3	34	Not Detected	Not Detected
2-Hexanone	8.3	34	Not Detected	Not Detected
Dibromochloromethane	8.3	72	Not Detected	Not Detected
Bromoform	8.3	87	Not Detected	Not Detected
4-Ethyltoluene	8.3	41	Not Detected	Not Detected
Ethanol	8.3	16	Not Detected	Not Detected
Methyl tert-Butyl Ether	8.3	30	Not Detected	Not Detected
Heptane	8.3	34	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-20 (922) Duplicate

ID#: 0110012-06AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101120	Date of Collection:	9/27/01
Dil Factor:	4.13	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	2.1	10	27	130
Freon 114	2.1	15	Not Detected	Not Detected
Chloromethane	2.1	4.3	Not Detected	Not Detected
Vinyl Chloride	2.1	5.4	Not Detected	Not Detected
Bromomethane	2.1	8.2	Not Detected	Not Detected
Chloroethane	2.1	5.5	Not Detected	Not Detected
Freon 11	2.1	12	2.4	13
1,1-Dichloroethene	2.1	8.3	Not Detected	Not Detected
Freon 113	2.1	16	Not Detected	Not Detected
Methylene Chloride	2.1	7.3	3.0	11
1,1-Dichloroethane	2.1	8.5	Not Detected	Not Detected
cis-1,2-Dichloroethene	2.1	8.3	Not Detected	Not Detected
Chloroform	2.1	10	Not Detected	Not Detected
1,1,1-Trichloroethane	2.1	11	Not Detected	Not Detected
Carbon Tetrachloride	2.1	13	Not Detected	Not Detected
Benzene	2.1	6.7	Not Detected	Not Detected
1,2-Dichloroethane	2.1	8.5	Not Detected	Not Detected
Trichloroethene	2.1	11	Not Detected	Not Detected
1,2-Dichloropropane	2.1	9.7	Not Detected	Not Detected
cis-1,3-Dichloropropene	2.1	9.5	Not Detected	Not Detected
Toluene	2.1	7.9	8.6	33
trans-1,3-Dichloropropene	2.1	9.5	Not Detected	Not Detected
1,1,2-Trichloroethane	2.1	11	Not Detected	Not Detected
Tetrachloroethene	2.1	14	3.4	23
Ethylene Dibromide	2.1	16	Not Detected	Not Detected
Chlorobenzene	2.1	9.7	Not Detected	Not Detected
Ethyl Benzene	2.1	9.1	5.5	24
m,p-Xylene	2.1	9.1	14	61
o-Xylene	2.1	9.1	4.4	19
Styrene	2.1	8.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	2.1	14	Not Detected	Not Detected
1,3,5-Trimethylbenzene	2.1	10	Not Detected	Not Detected
1,2,4-Trimethylbenzene	2.1	10	4.5	22
1,3-Dichlorobenzene	2.1	13	Not Detected	Not Detected
1,4-Dichlorobenzene	2.1	13	Not Detected	Not Detected
Chlorotoluene	2.1	11	Not Detected	Not Detected
1,2-Dichlorobenzene	2.1	13	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.1	16	Not Detected	Not Detected
Hexachlorobutadiene	2.1	22	Not Detected	Not Detected
Propylene	8.3	14	Not Detected	Not Detected
1,3-Butadiene	8.3	18	Not Detected	Not Detected
Acetone	8.3	20	100	250

AIR TOXICS LTD.

SAMPLE NAME: GV-20 (922) Duplicate

ID#: 0110012-06AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101120	Date of Collection:	9/27/01
Dil. Factor:	4.13	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	8.3	26	8.7	28
2-Propanol	8.3	21	10	26
trans-1,2-Dichloroethene	8.3	33	Not Detected	Not Detected
Vinyl Acetate	8.3	30	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.3	25	15	46
Hexane	8.3	30	15	53
Tetrahydrofuran	8.3	25	610	1800
Cyclohexane	8.3	29	Not Detected	Not Detected
1,4-Dioxane	8.3	30	Not Detected	Not Detected
Bromodichloromethane	8.3	56	Not Detected	Not Detected
4-Methyl-2-pentanone	8.3	34	Not Detected	Not Detected
2-Hexanone	8.3	34	Not Detected	Not Detected
Dibromochloromethane	8.3	72	Not Detected	Not Detected
Bromoform	8.3	87	Not Detected	Not Detected
4-Ethyltoluene	8.3	41	Not Detected	Not Detected
Ethanol	8.3	16	Not Detected	Not Detected
Methyl tert-Butyl Ether	8.3	30	Not Detected	Not Detected
Heptane	8.3	34	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0110012-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100906	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/9/01

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
Ethylene Dibromide	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
Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.50	3.8	Not Detected	Not Detected
Hexachlorobutadiene	0.50	5.4	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#: 0110012-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100906	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 10/9/01	

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	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	110	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0110012-07B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101106	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/11/01

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
Ethylene Dibromide	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
Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.50	3.8	Not Detected	Not Detected
Hexachlorobutadiene	0.50	5.4	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#: 0110012-07B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: g101106	Date of Collection: NA
Dil. Factor: 1.00	Date of Analysis: 10/11/01

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	104	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0110012-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	109
Freon 114	0.50	3.6	105
Chloromethane	0.50	1.0	103
Vinyl Chloride	0.50	1.3	115
Bromomethane	0.50	2.0	100
Chloroethane	0.50	1.3	111
Freon 11	0.50	2.8	105
1,1-Dichloroethene	0.50	2.0	101
Freon 113	0.50	3.9	96
Methylene Chloride	0.50	1.8	95
1,1-Dichloroethane	0.50	2.0	111
cis-1,2-Dichloroethene	0.50	2.0	98
Chloroform	0.50	2.5	103
1,1,1-Trichloroethane	0.50	2.8	108
Carbon Tetrachloride	0.50	3.2	97
Benzene	0.50	1.6	92
1,2-Dichloroethane	0.50	2.0	99
Trichloroethene	0.50	2.7	96
1,2-Dichloropropane	0.50	2.3	109
cis-1,3-Dichloropropene	0.50	2.3	95
Toluene	0.50	1.9	103
trans-1,3-Dichloropropene	0.50	2.3	83
1,1,2-Trichloroethane	0.50	2.8	91
Tetrachloroethene	0.50	3.4	88
Ethylene Dibromide	0.50	3.9	114
Chlorobenzene	0.50	2.3	94
Ethyl Benzene	0.50	2.2	102
m,p-Xylene	0.50	2.2	110
o-Xylene	0.50	2.2	118
Styrene	0.50	2.2	105
1,1,2,2-Tetrachloroethane	0.50	3.5	99
1,3,5-Trimethylbenzene	0.50	2.5	112
1,2,4-Trimethylbenzene	0.50	2.5	101
1,3-Dichlorobenzene	0.50	3.0	96
1,4-Dichlorobenzene	0.50	3.0	94
Chlorotoluene	0.50	2.6	87
1,2-Dichlorobenzene	0.50	3.0	98
1,2,4-Trichlorobenzene	0.50	3.8	80
Hexachlorobutadiene	0.50	5.4	84
Propylene	2.0	3.5	162 Q
1,3-Butadiene	2.0	4.5	95
Acetone	2.0	4.8	94

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0110012-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I100904	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	95
2-Propanol	2.0	5.0	98
trans-1,2-Dichloroethene	2.0	8.0	93
Vinyl Acetate	2.0	7.2	86
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	109
Hexane	2.0	7.2	98
Tetrahydrofuran	2.0	6.0	99
Cyclohexane	2.0	7.0	98
1,4-Dioxane	2.0	7.3	90
Bromodichloromethane	2.0	14	94
4-Methyl-2-pentanone	2.0	8.3	90
2-Hexanone	2.0	8.3	80
Dibromochloromethane	2.0	17	78
Bromoform	2.0	21	84
4-Ethyltoluene	2.0	10	101
Ethanol	2.0	3.8	113
Methyl tert-Butyl Ether	2.0	7.3	92
Heptane	2.0	8.3	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	107	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0110012-08B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	111
Freon 114	0.50	3.6	107
Chloromethane	0.50	1.0	109
Vinyl Chloride	0.50	1.3	120
Bromomethane	0.50	2.0	123
Chloroethane	0.50	1.3	103
Freon 11	0.50	2.8	109
1,1-Dichloroethene	0.50	2.0	105
Freon 113	0.50	3.9	98
Methylene Chloride	0.50	1.8	105
1,1-Dichloroethane	0.50	2.0	115
cis-1,2-Dichloroethene	0.50	2.0	100
Chloroform	0.50	2.5	106
1,1,1-Trichloroethane	0.50	2.8	109
Carbon Tetrachloride	0.50	3.2	103
Benzene	0.50	1.6	94
1,2-Dichloroethane	0.50	2.0	99
Trichloroethene	0.50	2.7	94
1,2-Dichloropropane	0.50	2.3	110
cis-1,3-Dichloropropene	0.50	2.3	99
Toluene	0.50	1.9	109
trans-1,3-Dichloropropene	0.50	2.3	87
1,1,2-Trichloroethane	0.50	2.8	90
Tetrachloroethene	0.50	3.4	92
Ethylene Dibromide	0.50	3.9	115
Chlorobenzene	0.50	2.3	96
Ethyl Benzene	0.50	2.2	99
m,p-Xylene	0.50	2.2	96
o-Xylene	0.50	2.2	112
Styrene	0.50	2.2	98
1,1,2,2-Tetrachloroethane	0.50	3.5	93
1,3,5-Trimethylbenzene	0.50	2.5	91
1,2,4-Trimethylbenzene	0.50	2.5	83
1,3-Dichlorobenzene	0.50	3.0	76
1,4-Dichlorobenzene	0.50	3.0	73
Chlorotoluene	0.50	2.6	90
1,2-Dichlorobenzene	0.50	3.0	74
1,2,4-Trichlorobenzene	0.50	3.8	46 Q
Hexachlorobutadiene	0.50	5.4	51 Q
Propylene	2.0	3.5	118
1,3-Butadiene	2.0	4.5	128
Acetone	2.0	4.8	114

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0110012-08B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g101103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	109
2-Propanol	2.0	5.0	122
trans-1,2-Dichloroethene	2.0	8.0	106
Vinyl Acetate	2.0	7.2	112
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	114
Hexane	2.0	7.2	115
Tetrahydrofuran	2.0	6.0	117
Cyclohexane	2.0	7.0	109
1,4-Dioxane	2.0	7.3	101
Bromodichloromethane	2.0	14	100
4-Methyl-2-pentanone	2.0	8.3	109
2-Hexanone	2.0	8.3	102
Dibromochloromethane	2.0	17	91
Bromoform	2.0	21	93
4-Ethyltoluene	2.0	10	82
Ethanol	2.0	3.8	110
Methyl tert-Butyl Ether	2.0	7.3	108
Heptane	2.0	8.3	119

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	101	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Contact Person Steven Smith
Company BT^2 Inc.
Address 2830 Dairy Dr. City Madison State WI Zip 53718
Phone (608) 224-2830 FAX (608) 224-2839
Collected By: Signature [signature]

Project info:
P.O. #
Project # #1764
Project Name Stoughton City L.F.

Turn Around Time:
☒ Normal
☐ Rush ______ Specify

ML 10.2.01

Lab I.D.	Field Sample I.D. (can)	Date & Time (start)		Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	Trip Blank (427)	9/27/01	10:30	TO-14 VOC Analysis	-28" Hg	-28" Hg	29.0" Hg
~~02A~~ (Delete)	~~GV-9 (405)~~		~~11:30~~		~~-30~~ -28 Hg	~~-9~~ -25 Hg	~~3.5" Hg~~
03A	GV-10 (9422)		12:30		~~-28~~ -30 Hg	-9" Hg	8.0" Hg
04A	GV-12 (9925)		13:20		-28.5" Hg	-6" Hg	6.0" Hg
05A	GV-13 (2574)		14:25		-30" Hg	-3.5" Hg	3.0" Hg
06A	GV-20 (922)	↓	15:10	↓	-30" Hg	-4.5" Hg	~~8.0" Hg~~ 4.0" Hg (ML 10/2)

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
[signature]	9/27/01 19:00	Laurah Thomas ATL	10-1-01 1000

Notes: 1. Matrix is landfill gas
2. No preservative
3. 1 flow controller has a gauge that isn't calibrated properly.

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS	1Z F51 03V 22 1000 413 7	[initials]	Ambient	Good	Yes No (None)	0110012

Form 1293 rev. 09

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0112252

Work Order Summary

CLIENT:	Ms. Jan Kucher BT Squared 2830 Dairy Drive Madison, WI 53718	**BILL TO:**	Mr. Steve Smith BT Squared 2830 Dairy Drive Madison, WI 53718
PHONE:	608-224-2830	**P.O. #**	
FAX:	608-224-2839	**PROJECT #**	1764 Stoughton City L.F.
DATE RECEIVED:	12/14/01	**CONTACT:**	DeDe Dodge
DATE COMPLETED:	1/2/02		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	GV-9	TO-14	4.0 "Hg
02A	Lab Blank	TO-14	NA
03A	LCS	TO-14	NA

CERTIFIED BY: Sandra A. Frumar DATE: 01/02/02

Laboratory Director

Certfication numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763
Name of Accrediting Agency: NELAP/State of New York Department of Health, Scope of Accreditation : Non Potable Water
Accreditation number :11291, Effective date: 6/7/01, Expiration date: 4/1/02

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

LABORATORY NARRATIVE
TO-14
BT Squared
Workorder# 0112252

One 6 Liter Summa Canister sample was received on December 14, 2001. The laboratory performed analysis via EPA Method TO-14 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.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	*TO-14*	*ATL Modifications*
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven 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.

AIR TOXICS LTD.

SAMPLE NAME: GV-9

ID#: 0112252-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	Lc121814	Date of Collection:	12/13/01
Dil. Factor:	1.55	Date of Analysis:	12/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.78	3.9	160	820
Freon 114	0.78	5.5	2.9	20
Chloromethane	0.78	1.6	Not Detected	Not Detected
Vinyl Chloride	0.78	2.0	Not Detected	Not Detected
Bromomethane	0.78	3.0	Not Detected	Not Detected
Chloroethane	0.78	2.1	0.97	2.6
Freon 11	0.78	4.4	Not Detected	Not Detected
1,1-Dichloroethene	0.78	3.1	Not Detected	Not Detected
Freon 113	0.78	6.0	Not Detected	Not Detected
Methylene Chloride	0.78	2.7	Not Detected	Not Detected
1,1-Dichloroethane	0.78	3.2	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.78	3.1	3.3	13
Chloroform	0.78	3.8	1.0	5.2
1,1,1-Trichloroethane	0.78	4.3	Not Detected	Not Detected
Carbon Tetrachloride	0.78	5.0	Not Detected	Not Detected
Benzene	0.78	2.5	1.3	4.3
1,2-Dichloroethane	0.78	3.2	Not Detected	Not Detected
Trichloroethene	0.78	4.2	2.7	15
1,2-Dichloropropane	0.78	3.6	0.95	4.4
cis-1,3-Dichloropropene	0.78	3.6	Not Detected	Not Detected
Toluene	0.78	3.0	60	230
trans-1,3-Dichloropropene	0.78	3.6	Not Detected	Not Detected
1,1,2-Trichloroethane	0.78	4.3	Not Detected	Not Detected
Tetrachloroethene	0.78	5.3	5.9	40
Ethylene Dibromide	0.78	6.0	Not Detected	Not Detected
Chlorobenzene	0.78	3.6	Not Detected	Not Detected
Ethyl Benzene	0.78	3.4	29	130
m,p-Xylene	0.78	3.4	60	260
o-Xylene	0.78	3.4	23	100
Styrene	0.78	3.4	2.2	9.4
1,1,2,2-Tetrachloroethane	0.78	5.4	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.78	3.9	5.3	26
1,2,4-Trimethylbenzene	0.78	3.9	13	64
1,3-Dichlorobenzene	0.78	4.7	Not Detected	Not Detected
1,4-Dichlorobenzene	0.78	4.7	1.3	8.2
Chlorotoluene	0.78	4.1	Not Detected	Not Detected
1,2-Dichlorobenzene	0.78	4.7	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.78	5.8	Not Detected	Not Detected
Hexachlorobutadiene	0.78	8.4	Not Detected	Not Detected
Propylene	3.1	5.4	Not Detected	Not Detected
1,3-Butadiene	3.1	7.0	Not Detected	Not Detected
Acetone	3.1	7.5	6.9	17

AIR TOXICS LTD.

SAMPLE NAME: GV-9

ID#: 0112252-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	vc121814	Date of Collection: 12/13/01
Dil. Factor:	1.55	Date of Analysis: 12/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	3.1	9.8	Not Detected	Not Detected
2-Propanol	3.1	7.7	Not Detected	Not Detected
trans-1,2-Dichloroethene	3.1	12	Not Detected	Not Detected
Vinyl Acetate	3.1	11	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	9.3	3.6	11
Hexane	3.1	11	Not Detected	Not Detected
Tetrahydrofuran	3.1	9.3	50	150
Cyclohexane	3.1	11	4.1	14
1,4-Dioxane	3.1	11	Not Detected	Not Detected
Bromodichloromethane	3.1	21	Not Detected	Not Detected
4-Methyl-2-pentanone	3.1	13	Not Detected	Not Detected
2-Hexanone	3.1	13	Not Detected	Not Detected
Dibromochloromethane	3.1	27	Not Detected	Not Detected
Bromoform	3.1	32	Not Detected	Not Detected
4-Ethyltoluene	3.1	15	11	53
Ethanol	3.1	5.9	Not Detected	Not Detected
Methyl tert-Butyl Ether	3.1	11	Not Detected	Not Detected
Heptane	3.1	13	4.2	18

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0112252-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: c121807	Date of Collection: NA
Dil. Factor: 1.00	Date of Analysis: 12/18/01

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
Ethylene Dibromide	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
Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.50	3.8	Not Detected	Not Detected
Hexachlorobutadiene	0.50	5.4	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#: 0112252-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c121807	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/18/01

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	94	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0112252-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	C121804a	Date of Collection: NA	
Dil. Factor:	1.001	Date of Analysis: 12/18/01	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	112
Freon 114	0.50	3.6	106
Chloromethane	0.50	1.0	108
Vinyl Chloride	0.50	1.3	102
Bromomethane	0.50	2.0	97
Chloroethane	0.50	1.3	96
Freon 11	0.50	2.8	109
1,1-Dichloroethene	0.50	2.0	92
Freon 113	0.50	3.9	94
Methylene Chloride	0.50	1.8	89
1,1-Dichloroethane	0.50	2.0	103
cis-1,2-Dichloroethene	0.50	2.0	91
Chloroform	0.50	2.5	99
1,1,1-Trichloroethane	0.50	2.8	120
Carbon Tetrachloride	0.50	3.2	128
Benzene	0.50	1.6	87
1,2-Dichloroethane	0.50	2.0	87
Trichloroethene	0.50	2.7	90
1,2-Dichloropropane	0.50	2.3	96
cis-1,3-Dichloropropene	0.50	2.3	94
Toluene	0.50	1.9	93
trans-1,3-Dichloropropene	0.50	2.3	94
1,1,2-Trichloroethane	0.50	2.8	88
Tetrachloroethene	0.50	3.4	88
Ethylene Dibromide	0.50	3.9	114
Chlorobenzene	0.50	2.3	89
Ethyl Benzene	0.50	2.2	94
m,p-Xylene	0.50	2.2	93
o-Xylene	0.50	2.2	116
Styrene	0.50	2.2	96
1,1,2,2-Tetrachloroethane	0.50	3.5	90
1,3,5-Trimethylbenzene	0.50	2.5	92
1,2,4-Trimethylbenzene	0.50	2.5	92
1,3-Dichlorobenzene	0.50	3.0	81
1,4-Dichlorobenzene	0.50	3.0	82
Chlorotoluene	0.50	2.6	105
1,2-Dichlorobenzene	0.50	3.0	81
1,2,4-Trichlorobenzene	0.50	3.8	53 Q
Hexachlorobutadiene	0.50	5.4	56 Q
Propylene	2.0	3.5	100
1,3-Butadiene	2.0	4.5	114
Acetone	2.0	4.8	106

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0112252-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c121804a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	98
2-Propanol	2.0	5.0	107
trans-1,2-Dichloroethene	2.0	8.0	97
Vinyl Acetate	2.0	7.2	120
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	101
Hexane	2.0	7.2	112
Tetrahydrofuran	2.0	6.0	99
Cyclohexane	2.0	7.0	110
1,4-Dioxane	2.0	7.3	87
Bromodichloromethane	2.0	14	106
4-Methyl-2-pentanone	2.0	8.3	98
2-Hexanone	2.0	8.3	92
Dibromochloromethane	2.0	17	113
Bromoform	2.0	21	122
4-Ethyltoluene	2.0	10	80
Ethanol	2.0	3.8	89
Methyl tert-Butyl Ether	2.0	7.3	107
Heptane	2.0	8.3	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	110	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Contact Person: Steven Smith
Company: BT² Inc.
Address: 2730 Oregon Dr. City: Madison State: WI Zip: 53718
Phone: (608) 224-2830 FAX: (608) 224-2839
Collected By: (Signature) A. Arnold

Project Info:
P.O. #:
Project #: 176H
Project Name: Stoughton City L.F.

Turn Around Time:
☒ Normal
☐ Rush _____ Specify

ML 12-17-01

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum: Initial	Final	Receipt
01A	GV-9	12/6/01 12:45	VOCs (TO-14)	-29.5	-5	9.0"Hg

Relinquished By: (Signature) Date/Time: A. Arnold 12/13/01 17:00
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time: 10-14-01 1010

Notes:
Per Dan Dee, analysis, canister rental, flow controller, est. etc.. at NO CHARGE

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS	1Z F51 034Y 22 1000 762 5	EO	-	Good	Yes No None	0112252

FINAL TOPO
STOUGHTON CITY LANDFILL
STOUGHTON, WISCONSIN
PROJECT NO. 1764
DRAWN BY: KP
CHECKED BY: SS
DRAWN: 06/06/00 REVISED: 09/05/00
J:\1764\SITE1.DWG
BT2 inc.
SHEET 1 OF 1
LEGEND
BENCHMARK
POWER POLE
SEWER MANHOLE
WATER VALVE
CHAIN LINK FENCE
PROPERTY LINE
WETLAND BOUNDARY
SANITARY SEWER LINE
WATER LINE
TELEPHONE LINE
OVERHEAD UTILITY LINE
CAPPING LIMITS
TOPSOIL CONTOUR (1' INTERVAL)
DECIDUOUS TREE
TREE LINE
WOOD FENCE
CHAINLINK FENCE
GAS VENT RISER
MONITORING WELL
FIRE HYDRANT
CONTROL POINT
NOTES:
1. ORIGINAL MAP BASED ON REI SURVEYING MAP DRAWN 02/01/99 BY THOMAS A. RADENZ.
2. THE LOCATION OF UNDERGROUND UTILITIES ARE OBTAINED FROM FIELD MEASUREMENTS AND CITY OF STOUGHTON RECORDS. FIELD VERIFY.
MW-12 CLUSTER LOCATED APPROXIMATELY 1,000' EAST
EXISTING WETLANDS
APPROXIMATE WETLAND BOUNDARY
APPROX. WETLAND BOUNDARY
EAST-WEST 1/4 LINE
CAPPING LIMITS
N02°54'40"W 667.82'
N02°04'20"W
1143.57'
RIP-RAP
24" RCP
AMUNDSON PARKWAY
GUY WIRES
INV. ELEV.= 844.48
42' STORM SWR
MAIN GATE
INV. ELEV.= 845.52
EX. GARAGE
RETAINING WALL
BM#1
INV. ELEV.= 846.35
36" STROM SWR
INV. ELEV.= 847.07
FIRE HYDRANT
EXISTING 21" STORM SWR
INV. ELEV.= 850.95
GRAVEL DRIVE
EXISTING 18" STORM SWR
INV. ELEV.= 850.80
EXISTING CONDOMINIUM COMPLEX
PROPERTY OWNER: SKAALEN SUNSET HOME INC. 400 NORTH MORRIS STREET STOUGHTON, WI 53589
OVERHEAD ELECTRIC EASEMENT WIDTH NOT DEFINED
LANDS OWNED BY THE CITY OF STOUGHTON
EAST GATE
872.63
SCALE: 1" = 60'