Vapor Intrusion Assessment Report
Former Volvo Construction Equipment Facility
2169 Hendersonville Rd
Asheville, North Carolina

H&H Job No. PPA-040

August 17, 2011

Hart & Hickman

2923 South Tryon Street
Suite 100
Charlotte, NC 28203
704-586-0007

3334 Hillsborough Street
Raleigh, NC 27607
919-847-4241

#C-1269 Engineering
#C-245 Geology

Hart & Hickman
A Professional Corporation
Our Clients Demand A Smarter Solution

2923 South Tryon Street
Suite 100 Charlotte, NC
28203-5449

704-586-0007 phone
704-586-0373 fax
www.harthickman.com

August 17, 2011

Parker Poe Adams & Bernstein LLP
Three Wells Fargo Center
401 S. Tryon St., Ste. 3000
Charlotte, NC 28202-1151

Attention: Ms. Allison Edgar

Re: Vapor Intrusion Assessment Report
Former Volvo Construction Equipment Facility
2169 Hendersonville Rd
Asheville, NC
H&H Job No. PPA-040

Dear Allison:

1.0 Introduction

This report presents the results of vapor intrusion assessment activities conducted by Hart & Hickman, PC (H&H) at the former Volvo Construction Equipment (VCE) facility located at 2169 Hendersonville Road in Asheville, Buncombe County, North Carolina (see Figure 1). The purpose of the sampling was to determine whether identified soil and groundwater impacts near and beneath the Assembly Building identified by H&H's recent Phase II Environmental Site Assessment (ESA) pose a potential vapor intrusion concern.

The methods, results, and conclusions of our vapor intrusion assessment activities are presented below.

2.0 Sample Collection

On July 25 and 26, 2011, H&H collected co-located indoor air and sub-slab vapor samples from six (6) locations from the interior of the Assembly Building. In addition, one exterior background sample was collected from an upwind location outside of the Assembly Building. The locations of the indoor air samples, sub-slab soil vapor samples, and background sample are indicated in Figure 2.

The building was not being used at the time of the sampling, and the building had not been used since 2010. All of the loading dock doors, doors between the warehouse area and the office, and exterior doors had been closed prior to the sampling and remained closed during the sampling. Prior to the sampling, all of the small circulation fans located on support columns that were in operation were turned off. No heating, ventilation, and air conditioning (HVAC) equipment was operating in the main areas of the warehouse. Office area HVAC equipment was in operation as noted in the sampling locations below.

The samples were collected from the following locations:

- Indoor air sample IA-1 and sub-slab vapor sample VMP-1 were located in the northeast portion of the Assembly Building near the former paint kitchen where volatile organic compounds (VOCs) were previously detected in soil and groundwater during H&H's Phase II ESA. A field duplicate sub-slab soil vapor sample was collected at this location and was labeled VMP-7.

- Indoor air sample IA-2 and sub-slab vapor sample VMP-2 were collected inside the northern portion of the main office space in the eastern side of the Assembly Building. The central

air conditioning unit associated with the office space was running during the collection of the samples at this location.

- Indoor air sample IA-3 and sub-slab vapor sample VMP-3 were located near former sump pits located in the south-central part of the Assembly Building. H&H identified the presence of petroleum hydrocarbons in soil samples HH-3 and HH-4 near this location during H&H's Phase II ESA.

- Indoor air sample IA-4 and sub-slab vapor sample VMP-4 were collected in an office space located in the maintenance room in the southern portion of the Assembly Building. A wall-mounted room air conditioner is present in this office but was not operated during the sampling activities.

- Indoor air sample IA-5 and sub-slab vapor sample VMP-5 were located near a former sump pit located in the central part of the Assembly Building. H&H identified the presence of petroleum hydrocarbons in soil sample HH-10 near this location during H&H's Phase II ESA.

- Indoor air sample IA-6 was collected inside office space in the southern part of the main offices located on the eastern side of the Assembly Building. The co-located sub-slab vapor sample VMP-6 was collected directly outside the office door at this location so as not to have to penetrate carpeting present in the office area. The central air conditioning was operating in the office area during the sampling.

H&H inspected the building areas and did not identify any obvious significant sources of indoor air contaminants in the interior of the building. Some small, sealed containers of paint were observed in the maintenance area, but it did not appear that they would be a significant source of compounds in indoor air. As noted previously, the facility was not operating at the time of the sampling and has not been in operation since 2010.

Indoor Air Sampling

The indoor air samples were collected prior to the installation and collection of the sub-slab samples to ensure that the indoor air samples would not be impacted by the sub-slab samples. Warehouse bay doors as well as doors between the office spaces and the exterior and warehouse were kept closed during indoor air sampling, except when opened and closed for access to other sample locations by H&H. H&H was on-site during the sampling event and ensured that doors were not propped open or left open during the sampling event.

The indoor air samples were collected using 6-liter Summa canisters. Each Summa canister was connected to an airflow regulator and a 3 ft long sampling cane placing the sample intake point approximately 5 ft above grade (typical breathing zone height). Prior to the sampling event, H&H set up a small weather station, measured the wind direction, and selected an exterior background location upwind of the Assembly Building. Because the wind direction was measured to be from the north-northwest, the background sample location was established northwest of the Assembly Building. The location of the background sample, labeled BG-1, is indicated in Figure 2. The background sample was collected in the same manner as the interior sample locations.

The indoor and background sample valves were opened at approximately 10:00 am and the samples were collected over an approximate 8-hour period (the regulator valves were pre-set to collect samples over the 8-hour period). As part of the sampling effort, H&H also measured the indoor/outdoor air pressure differential at each sample location near the start, middle, and end of the 8-hour sampling period using a manometer sensitive to 0.001 inches water. In addition, exterior wind speed, exterior wind direction, indoor/outdoor temperature, and precipitation were recorded near the start, middle, and end of the sampling period using the weather station.

After sample collection, the regulator valves on the canisters were closed and the sample cane and flow regulators were removed at approximately 18:00 pm. The Summa canisters, regulators, and

canes were placed in laboratory supplied cartons, properly labeled, and shipped via FedEx to Air Toxics Ltd, a NELAP certified laboratory under standard chain-of-custody protocol. The samples were analyzed for VOCs by EPA Method TO-15 including non-standard Method TO-15 compounds 2-chlorotoluene, 4-chlorotoluene, and naphthalene. The laboratory was instructed to use a detection limit which is below the North Carolina Department of Environment and Natural Resources (DENR) Inactive Hazardous Sites Branch (IHSB) industrial/commercial indoor air screening levels. However, in a few cases this was not possible due to the nature of the compound or the specific sample. Where this occurred, a comparison of the results of analysis of the sub-slab soil vapor sample which was co-located with the indoor air sample with elevated detection limits indicated that the compound was not detected in sub-slab vapor above the IHSB industrial/commercial soil gas screening levels. Therefore, the elevated detection limits for these compounds in the indoor air samples were not considered a concern.

Sub-Slab Vapor Sampling

Sub-slab samples were collected from beneath the building slab floor at corresponding indoor air locations. H&H drilled through the concrete slab floor at each location using a concrete hammer drill. A stainless steel AMS dedicated 0.625-inch diameter stainless steel probe with an approximate 1-inch long soil gas screen fitted with 0.25-inch diameter Teflon® tubing was then installed at each vapor monitoring point location. The probes were installed through the gravel beneath the concrete slab and seated in the underlying soil so that the soil gas screen was present in both the soil and overlying gravel. Filter sand was placed around each soil gas screen to approximately 4 to 5 inches below the top of the concrete slab. Each point was sealed to the surface of the concrete slab using hydrated bentonite. The soil gas probes were completed at the surface with a sample valve and Teflon® tubing.

Prior to sampling, a leak check was conducted at each sub-slab sample location by constructing a shroud around the sampling point and saturating the air within the shroud with helium gas. H&H utilized a syringe to collect a sample from the gas in the shroud into a Tedlar® bag and analyzed for

helium using a helium gas detector. Vapor from the vapor monitoring point was purged using a syringe and sampled outside of the shroud into a separate Tedlar® bag and analyzed using the helium gas detector to ensure that helium concentrations are less than 10% of the helium concentrations in the shroud. All of the sample points were found to pass the leak check criteria.

Following a successful leak check, the sub-slab vapor samples were collected using 6-liter Summa canisters. The Summa canisters were connected to an airflow regulator and to the Teflon® tubing at each point. For field quality assurance purposes, a duplicate sample was collected from VMP-1 using a "T" sample connection which allowed for the collection of two samples from the same location simultaneously. The duplicate sample was labeled VMP-7.

The sub-slab sample valves were opened at approximately 8:30 am and the samples were collected over an approximate 8-hour period (the regulator valves were pre-set to collect samples over the 8-hour period). As part of the sampling effort, H&H also measured ambient temperature at the beginning, middle, and end of the sample collection period at each VMP sample location. In addition, H&H collected outside weather measurements including wind speed and direction, and temperature.

After sample collection, the regulator valves on the canisters were closed and flow regulators were removed at approximately 16:30 pm. The Summa canisters and regulators were placed in laboratory supplied cartons, properly labeled, and shipped via FedEx to Air Toxics Ltd, a NELAP certified laboratory under standard chain-of-custody protocol. The samples were analyzed for VOCs by EPA Method TO-15 including the non-standard Method TO-15 compounds 2-chlorotoluene, 4-chlorotoluene, and naphthalene. The laboratory was instructed to use a detection limit which is below the DENR IHSB industrial/commercial indoor air screening levels.

3.0 Results

3.1 Field Measurements

The results of the air sampling measurements of wind speed and direction, differential pressure, and temperature collected during the indoor air sampling are summarized in Table 1. As indicated in Table 1, positive differential pressure as compared to outside air was observed during each measurement except for the end reading at indoor air sample location IA-4. Wind direction during the indoor air sampling event was consistently from the north-northwest with wind speeds ranging from 2 to 7 miles per hour. In addition, precipitation occurred during the middle and end of the indoor air sampling period and totaled 0.42 inch by the end of the sampling event. The precipitation that occurred during the sampling is not expected to impact the indoor air sampling results. The exterior background air sample results could have been impacted by the precipitation; however, the background results appear consistent with typical background air samples.

The results of the air sampling measurements of ambient air temperature and outside wind speed and direction collected during the sub-slab sampling are summarized in Table 2. Wind speed and direction were consistent with the measurements made during the indoor air sampling the previous day. No precipitation occurred during the sub-slab soil vapor sampling event.

3.2 Analytical Results

Indoor Air

The results of analysis of the indoor air samples collected from the site are summarized in Table 3, and the laboratory analytical results are provided in Appendix A. The indoor air sampling results were compared to the North Carolina Department of Environment and Natural Resources (DENR) Inactive Hazardous Sites Branch (IHSB) residential indoor air screening levels and industrial/commercial indoor air screening levels. The indoor air screening levels are conservative, and both the residential and industrial/commercial indoor air screening levels are based upon a

lifetime incremental cancer risk (LICR) of 1 x 10^{-6} for potential carcinogens and a hazard index (HI) of 0.2 for non-carcinogenic effects.

As indicated in Table 3, no compounds were detected above screening levels in the upwind exterior sample. Benzene, ethylbenzene, and 1,2,4-trimethylbenzene (1,2,4-TMB) were detected at concentrations that exceed IHSB residential indoor air screening concentrations. No compounds were detected at concentrations that exceed IHSB commercial/industrial air screening concentrations. However, benzene was detected in sample IA-1 in the northeastern portion of the building at a concentration equal to the IHSB commercial/industrial screening level of 1.6 $\mu g/m^3$. Benzene was detected in the subslab sample from this location (VMP-1) at a concentration of 4.9 $\mu g/m^3$, and benzene was not detected in the upwind exterior location.

Sub-Slab Soil Vapor

The results of analysis of the sub-slab soil vapor samples collected from the site are summarized in Table 4, and the laboratory analytical results are provided in Appendix A. The VMP sampling results were compared to the DENR IHSB residential soil gas screening levels (SGSLs) and the industrial/commercial SGSLs. The DENR IHSB residential and commercial/industrial SGSLs are conservative, and both the residential and commercial/industrial screening levels are based upon a LICR of 1 x 10^{-5} for potential carcinogenic effects and a hazard index of 0.2 for non-carcinogenic effects.

As indicated in Table 4, 2-chlorotouene, ethylbenzene, tetrachloroethene (PCE), 1,2,4-trimethylbenzene (1,2,4-TMB), and 1,3,5-trimethylbenzene (1,3,5-TMB) were detected at concentrations that exceed IHSB residential SGSLs. Of these compounds, 1,2,4-TMB and 1,3,5-trimethylbenzene (1,3,5-TMB) were detected in sample VMP-4 (maintenance area office) at concentrations that exceed the IHSB commercial/industrial SGSLs. No other locations contained compound concentrations above the commercial/industrial SGSLs.

Although 1,2,4-TMB and 1,3,5-TMB were detected in sample VMP-4 above the sub-slab commercial/industrial SGSLs, these compounds were not detected above commercial/industrial indoor air screening levels in the co-located indoor air sample IA-4 or any of the other indoor air samples. As such, it appears that compounds found in the sub-slab beneath the southern portion of the Assembly Building as identified in VMP-4 are not migrating into the Assembly Building indoor air at levels of concern.

4.0 Conclusions and Recommendations

Based upon the results of the indoor air sampling, H&H makes the following conclusions and recommendations:

- No compounds were detected in indoor air samples at concentrations that exceed IHSB commercial/industrial indoor air screening concentrations. The compound benzene was detected in one sample in the northeastern portion of the Assembly Building at a concentration equal to the commercial/industrial indoor air screening level. Because the indoor air screening concentrations are conservative, benzene was only detected in one sample at the screening concentration (and workers would not be expected to stay in one location during a work day), and the samples were collected under worst case conditions (the building has been closed since 2010, no doors were open, and circulation fans were turned off), the benzene detection does not appear to pose a concern for future site workers.

- The results of the sub-slab soil vapor sampling indicate that the compounds 1,2,4-TMB and 1,3,5-TMB were detected at concentrations that exceed IHSB residential and industrial/commercial SGSLs in one sample in the southern portion of the Assembly Building. These compounds were not detected above commercial/industrial indoor air screening levels in the co-located indoor air sample at this location or any other indoor air samples collected in the building (although 1,2,4-TMB was detected above the residential

in the northern portion of the building). As such, it appears that compounds found in the sub-slab beneath the southern portion of the Assembly Building VMP-4 are not migrating into the Assembly Building indoor air at levels of concern. H&H recommends that if the building slab in the southern portion of the Assembly Building is modified or disturbed, that the slab be repaired so as not to have cracks of other routes that could increase migration of vapors from the subslab to indoor air.

If you have any questions concerning this report, please contact us.

Very truly yours,

Hart & Hickman, PC

Steven Hart, PG
Principal

Kurtis Beshers, PG
Project Geologist

Table 1
Indoor Air - Indoor and Outdoor Air Monitoring Data
Former Volvo Construction Equipment
Asheville, North Carolina
H&H Job No. PPA-040

Sample ID	Sample Location	Indoor			Outdoor			
		Time	Temperature °F	Differential Pressure (in Water)	Temperature °F	Wind Direction	Wind Speed (mph)	Precipitation (inches)
BG-1	Exterior - Northwest (Upwind) of Building	10:00	NA	NA	77.6	330°	5	None
		14:00	NA	NA	88.6	341°	2	0.24
		18:00	NA	NA	74.1	355°	7	0.42
IA-1	Near Former Paint Kitchen	Beginning	82.4	0.008				
		Middle	82.8	0.011				
		End	83.1	0.010				
IA-2	Eastern Office (Northern Part)	Beginning	70.5	0.000				
		Middle	71.4	0.004				
		End	71.5	0.005				
IA-3	Near Former Sump Pits (HH-3 & HH-4)	Beginning	81.3	0.008				
		Middle	81.8	0.010				
		End	81.5	0.012				
IA-4	Maintenance Room Office (Southern Portion of Building)	Beginning	81.8	0.009				
		Middle	82.9	0.011				
		End	83.2	-0.005				
IA-5	Near Former Sump Pit (HH-10)	Beginning	82.3	0.008				
		Middle	82.7	0.006				
		End	82.9	0.007				
IA-6	Eastern Office (Southern Part)	Beginning	79.3	0.004				
		Middle	77.8	0.007				
		End	78.4	0.005				

Notes:
Information from on-site weather station set up at northwest corner of building by H&H on July 25, 2011 during indoor air sampling event.
Negative indoor air differential pressure indicates that the pressure in the building was lower than the outside pressure.
Differential pressure and temperature readings taken from each sample location at the beginning, middle, and end during the 8-hour sample collection
NA = Not Applicable
mph = miles per hour

Table 2
Sub-Slab Vapor - Indoor and Outdoor Air Monitoring Data
Former Volvo Consturction Equipment
Asheville, North Carolina
H&H Job No. PPA-040

Sample ID	Sample Location	Indoor		Outdoor			
		Time	Temperature °F	Temperature °F	Wind Direction	Wind Speed (mph)	Precipitation (inches)
Weather Station	Exterior - Northwest (Upwind) of Building	8:30	NA	74.2	339°	6	None
		12:00	NA	83.7	345°	5	None
		16:00	NA	91.4	344°	3	None
VMP-1	Near Former Paint Kitchen	Beginning	78.7				
		Middle	80.5				
		End	83.2				
VMP-2	Eastern Office (Northern Part)	Beginning	70.4				
		Middle	69.7				
		End	68.4				
VMP-3	Near Former Sump Pits (HH-3 & HH-4)	Beginning	78.9				
		Middle	80.8				
		End	83.3				
VMP-4	Maintenance Room Office (Southern Portion of Building)	Beginning	79.6				
		Middle	81.3				
		End	83.6				
VMP-5	Near Former Sump Pit (HH-10)	Beginning	78.8				
		Middle	80.5				
		End	83.3				
VMP-6	Eastern Office (Southern Part)	Beginning	78.9				
		Middle	80.3				
		End	83.1				

Notes:
Information from on-site weather station set up at northwest corner of building by H&H on July 26, 2011 during sub-slab vapor sampling event.
Temperature readings taken from each sample location at the beginning, middle, and end during the 8-hour sample collection
No sample was collected from the weather station
NA = Not Applicable
mph = miles per hour

Table 3 (Page 1 of 1)
Summary of Indoor Air Analytical Detections
Former Volvo Construction Equipment
Asheville, North Carolina
Hart & Hickman Project No. PPA-040

Sample ID	Sample Location	Sampling Date	Analytical Method	Acetone	Benzene	Bromomethane	Chloromethane	Cyclohexane	Dichlorodifluoromethane (Freon 12)	Ethanol	Ethylbenzene	4-Ethyltoluene	Heptane	Hexane	Methylene Chloride	2-Propanol	Tetrahydrofuran	Toluene	Trichlorofluoromethane (Freon 11)	1,2,4-Trimethylbenzene	m,p-Xylene	o-Xylene
				µg/m^3																		
IA-1	Near Former Paint Kitchen	07/25/11	TO-15	17	1.6	<0.66	1.3	0.61	2.4	6.3	2.5	1.5	1.5	4.1	1.8	<2.1	<2.5	6.4	1.2	1.7	10	2.6
IA-2	Eastern Office (Northern Part)	07/25/11	TO-15	14	<0.55	<0.66	1.4	<0.59	2.5	6.0	1.2	<0.84	<0.70	<0.60	<1.2	<2.1	<2.5	1.5	1.4	<0.84	4.6	1.0
IA-3	Near Former Sump Pits (HH-3 & HH-4)	07/25/11	TO-15	16	<0.55	<0.66	1.3	<0.59	2.5	2.7	1.4	<0.84	0.71	0.89	<1.2	<2.1	<2.5	1.4	1.1	<0.84	5.7	1.2
IA-4	Maintenance Room Office (Southern Portion of Building)	07/25/11	TO-15	23	0.76	0.78	1.4	<0.59	2.5	2.6	0.95	<0.84	<0.70	<0.60	<1.2	<2.1	2.6	1.2	1.0	<0.84	3.6	<0.74
IA-5	Near Former Sump Pit (HH-10)	07/25/11	TO-15	17	<0.55	0.85	1.4	<0.59	2.5	4.1	1.6	<0.84	<0.70	<0.60	1.5	<2.1	<2.5	1.1	1.2	<0.84	6.7	1.3
IA-6	Eastern Office (Southern Part)	07/25/11	TO-15	17	<0.55	<0.66	1.3	<0.59	2.4	5.3	0.92	<0.84	<0.70	<0.60	<1.2	2.5	<2.5	1.2	1.1	<0.84	3.6	0.83
BG-1	Exterior - Northwest (Upwind) of Building	07/25/11	TO-15	10	<0.55	<0.66	1.4	<0.59	2.3	3.9	<0.74	<0.84	<0.70	<0.60	<1.2	<2.1	<2.5	<0.64	<0.96	<0.84	<0.74	<0.74
IHSB Residential Indoor Air Screening Concentration				6,400	0.31	NE	19	NE	42	NE	0.97	NE	NE	150	5.2	NE	NE	1,000	150	1.5	150	150
IHSB Industrial/Commercial Indoor Air Screening Concentration				28,000	1.60	NE	78	NE	176	NE	4.90	NE	NE	620	26	NE	NE	4,400	620	6.20	620	620

Notes:
1. Only those analytes detected in at least one sample are shown in this table
2. **Green** highlighting indicates concentration exceeds DENR IHSB Residential Indoor Air Screening Levels
3. **Orange** highlighting indicates concentration exceeds DENR IHSB Industrial/Commercial Indoor Air Screening Levels

NE = Not Established, µg/m^3 = micrograms per cubic meter , BG = background sample

Table 4 (Page 1 of 2)
Summary of Sub-Slab Vapor Analytical Detections
Former Volvo Construction Equipment
Asheville, North Carolina
Hart & Hickman Project No. PPA-040

Sample ID	Sample Location	Sampling Date	Analytical Method	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketone)	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloromethane	2-Chlorotolune	Cumene	Cyclohexane	Dichlorodifluoromethane (Freon 12)	1,1-Dichloroethane	1,4-Dioxane	Ethanol	Ethylbenzene	4-Ethyltoluene	Heptane	Hexane	Methyl Isobutyl Ketone (4-methyl-2-pentanone)	2-Propanol	Propylbenzene	Tetrachloroethene
				µg/m^3																					
VMP-1	Near Former Paint Kitchen	07/26/11	TO-15	220	4.9	11	3.4	23	<3.8	<1.2	4.4	4.8	<2.1	<3.0	<2.5	<2.2	21	200	33	<2.5	<2.1	<2.5	38	7.6	<4.1
VMP-7 (VMP-1 Duplicate)	Near Former Paint Kitchen (Duplicate)	07/26/11	TO-15	240	6.1	<13	4.3	24	<5.4	<1.8	4.4 J	5.2	<2.9	<4.2	<3.5	<3.1	52	210	37	<3.5	<3.0	<3.5	38	8.8	<5.8
VMP-2	Eastern Office (Northern Part)	07/26/11	TO-15	49	1.4	4.0	<0.64	25	1.2	0.76	<0.85	<0.81	<0.56	2.5	<0.66	<0.59	11	1.6	<0.81	<0.67	<0.58	0.68	3.8	<0.81	<1.1
VMP-3	Near Former Sump Pits (HH-3 & HH-4)	07/26/11	TO-15	660 E	5.8	26	4.3	190	<2.7	1.9	5.7	<2.1	<1.5	32	10	2.7	100	7.4	<2.1	2.1	2.1	2.3	33	<2.1	60
VMP-4	Maintenance Room Office (Southern Portion of Building)	07/26/11	TO-15	1200 E	20	<14	6.3	110	<5.9	<1.9	<4.8	48	<3.2	6.1	<3.8	<3.4	61	240	420	<3.8	<3.3	<3.8	360	68	<6.3
VMP-5	Near Former Sump Pit (HH-10)	07/26/11	TO-15	1600 E	4.7	92	16	160	<5.6	<1.8	<4.6	<4.4	14	6.1	6.9	<3.2	370	230	51	<3.7	6.3	9.8	78	12	64
VMP-6	Eastern Office (Southern Part)	07/26/11	TO-15	40	<0.60	<2.8	1.2	39	<1.2	1.2	<0.97	<0.92	<0.64	3.1	<0.76	<0.67	9.8	<0.81	<0.97	<0.77	<0.66	<0.77	2.9	<0.92	1.5
IHSB Residential Soil Gas Screening Concentration				64,000	31	10,400	NE	1,460	41	188	2.0**	840	NE	420	150	NE	NE	97	NE	NE	1,460	6,200	NE	NE	41
IHSB Industrial/Commercial Soil Gas Screening Concentration				280,000	160	44,000	NE	6,200	82	780	8.8**	3,600	NE	1,760	770	NE	NE	490	NE	NE	6,200	26,000	NE	NE	210

Notes:
1. Only those analytes detected in at least one sample are shown in this table
2. **Green** highlighting indicates concentration exceeds DENR IHSB Residential Soil Gas Screening Levels
3. **Orange** highlighting indicates concentration exceeds DENR IHSB Industrial/Commercial Soil Gas Screening Levels

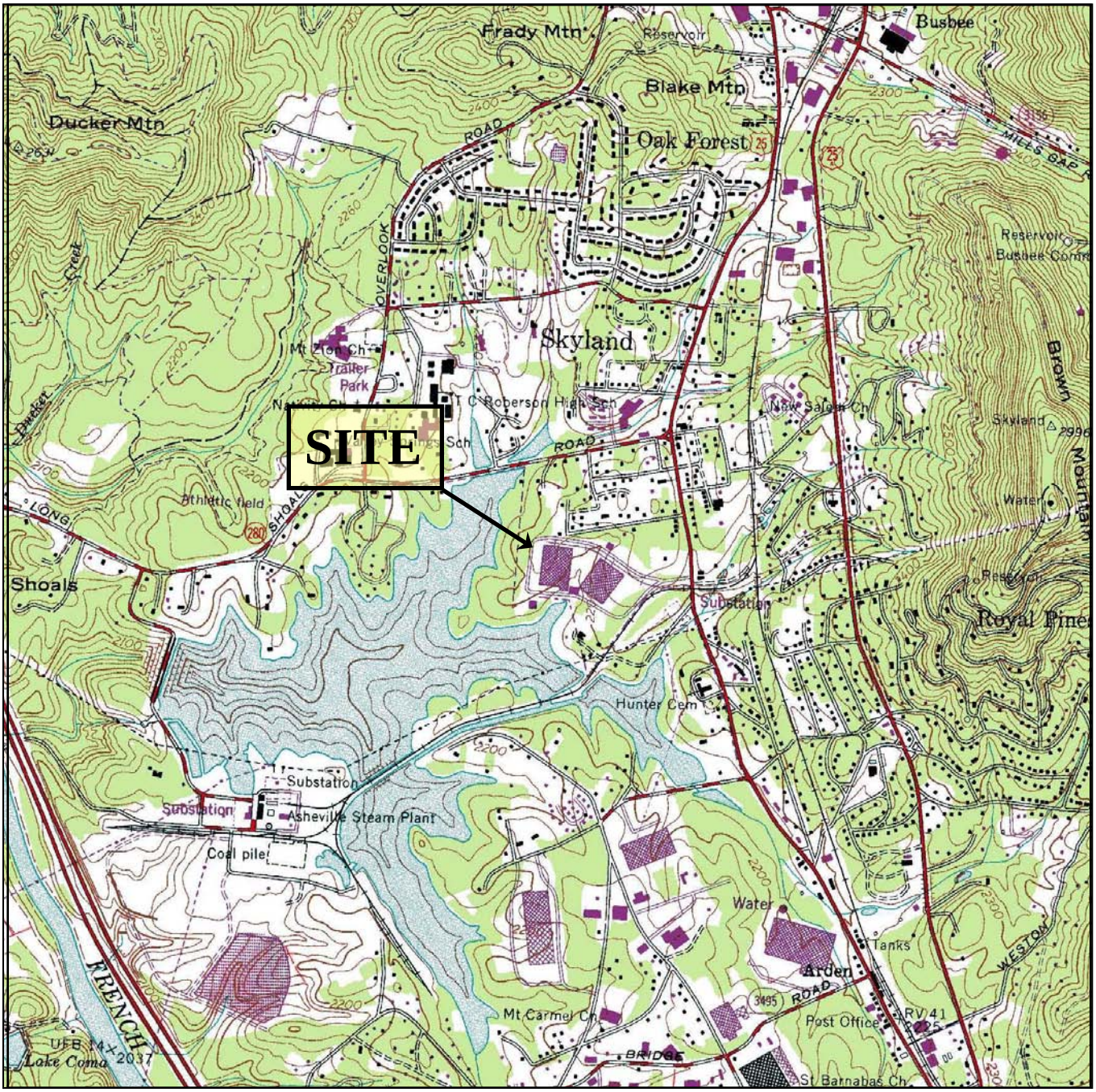
NE = Not Established, µg/m^3 = micrograms per cubic meter
J = Detected but below the reporting limit. Result is an estimated concentration.
E = Exceeds intrument calibration range
* = 1,2,4-Trimethylbenzene used as a surrogate for 1,3,5-Trimethylbenzene
** = Benzyl Chloride used as a surrogate for 2-Chlorotoluene

Table 4 (Page 2 of 2)
Summary of Sub-Slab Vapor Analytical Detections
Former Volvo Construction Equipment
Asheville, North Carolina
Hart & Hickman Project No. PPA-040

Sample ID	Sample Location	Sampling Date	Analytical Method	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane (Freon 11)	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene
				µg/m3								
VMP-1	Near Former Paint Kitchen	07/26/11	TO-15	27	<3.3	<3.3	<3.4	<4.7	27	17	670	120
VMP-7 (VMP-1 Duplicate)	Near Former Paint Kitchen (Duplicate)	07/26/11	TO-15	30	<4.7	<4.6	<4.8	<6.6	30	18	710	120
VMP-2	Eastern Office (Northern Part)	07/26/11	TO-15	1.6	<0.89	<0.88	1.5	<1.2	<0.81	<0.81	1.4	<0.71
VMP-3	Near Former Sump Pits (HH-3 & HH-4)	07/26/11	TO-15	5.3	590	5.9	<2.4	5.0	3.1	<2.1	6.8	1.9
VMP-4	Maintenance Room Office (Southern Portion of Building)	07/26/11	TO-15	240	<5.1	<5.0	<5.2	<7.2	1100	690	840	220
VMP-5	Near Former Sump Pit (HH-10)	07/26/11	TO-15	73	15	<4.8	<5.0	<6.8	48	18	740	160
VMP-6	Eastern Office (Southern Part)	07/26/11	TO-15	1.6	<1.0	1.0	1.2	<1.4	<0.92	<0.92	1.0	<0.81
IHSB Residential Soil Gas Screening Concentration				10,400	10,400	120	1,460	62,000	14.6	14.6*	1,460	1,460
IHSB Industrial/Commercial Soil Gas Screening Concentration				44,000	44,000	610	6,200	62,000	62	62*	6,200	6,200

Notes:
1. Only those analytes detected in at least one sample are shown in this table
2. **Green** highlighting indicates concentration exceeds DENR IHSB Residential Soil Gas Screening Levels
3. **Orange** highlighting indicates concentration exceeds DENR IHSB Industrial/Commercial Soil Gas Screening Levels

NE = Not Established, µg/m^3 = micrograms per cubic meter
J = Detected but below the reporting limit. Result is an estimated concentration.
E = Exceeds intrument calibration range
* = 1,2,4-trimethylbenzene used as a surrogate for 1,3,5-trimethylbenzene
**= Benzyl Chloride used as a surrogate for 2-Chlorotoluene



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

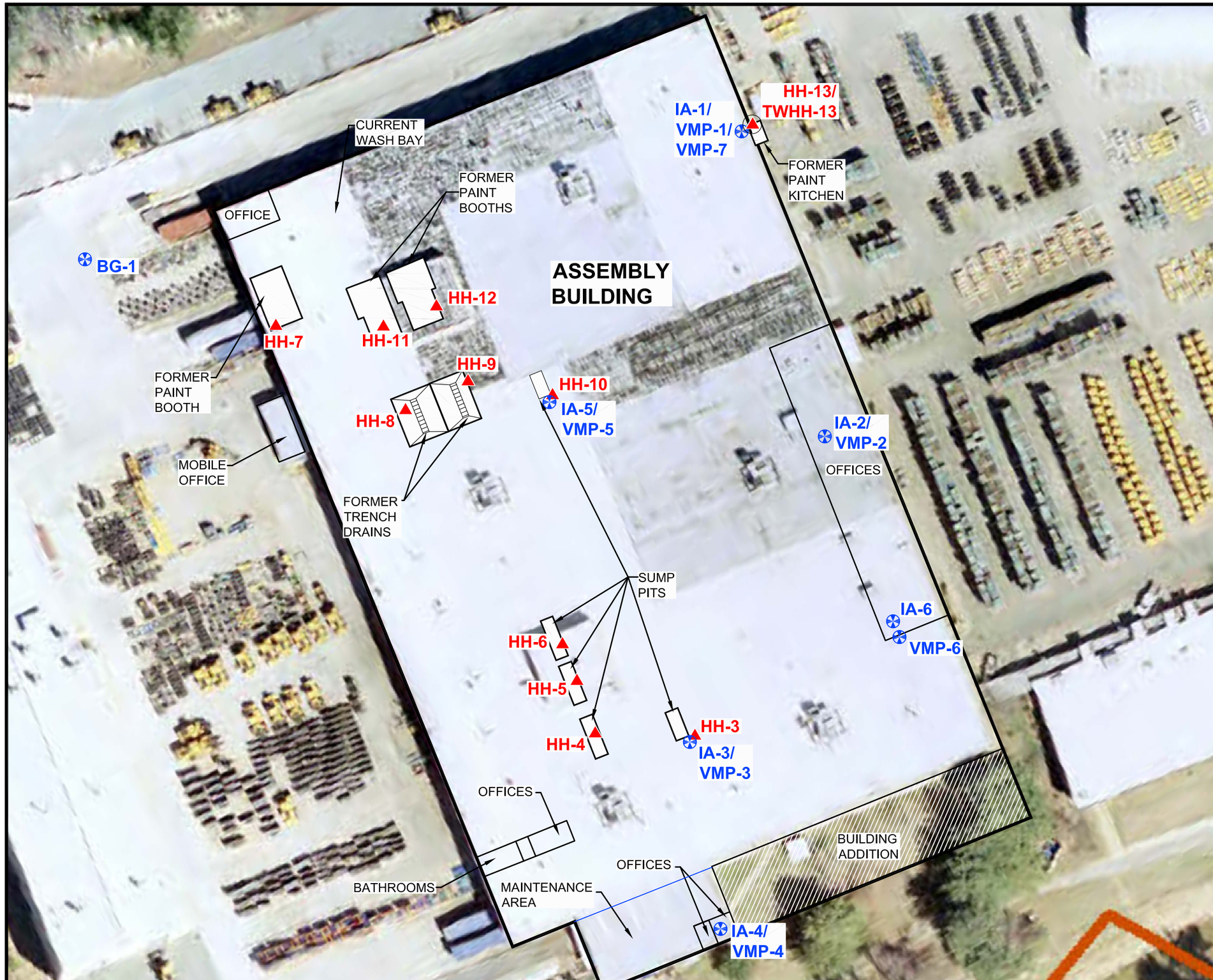
Skyland, NC 1965
Revised 1991

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP
PROJECT	FOMER VOLVO CONSTRUCTION EQUIPMENT ASHEVILLE, NC

Hart & Hickman
A Professional Corporation
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	06-28-11	REVISION NO:	0
JOB NO:	PPA-040	FIGURE:	1



LEGEND

- H&H SOIL BORING LOCATION
- H&H SOIL AND GROUNDWATER SAMPLE LOCATION
- INDOOR AIR/ SOIL VAPOR SAMPLE POINT

N

APPROXIMATE
0 60 120
SCALE IN FEET

TITLE
INDOOR AIR SAMPLE AND SOIL VAPOR SAMPLE LOCATIONS

PROJECT
FORMER VOLVO CONSTRUCTION EQUIPMENT
ASHEVILLE, NORTH CAROLINA

Hart & Hickman
A Professional Corporation
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 8–2–11	REVISION NO. 0
JOB NO. PPA–040	FIGURE NO. 2

Appendix A

Laboratory Analytical Data

Air Toxics LTD.
Laboratory Services Since 1989

7/29/2011
Mr. Kurtis Beshers
Hart & Hickman
2923 South Tryon Street
Suite 100
Charlotte NC 28203

Project Name: Former Volvo
Project #: PPA-040
Workorder #: 1107435

Dear Mr. Kurtis Beshers

The following report includes the data for the above referenced project for sample(s) received on 7/26/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Ausha Scott

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1107435

Work Order Summary

CLIENT:	Mr. Kurtis Beshers Hart & Hickman 2923 South Tryon Street Suite 100 Charlotte, NC 28203	**BILL TO:**	Accounts Payable Hart & Hickman 2923 South Tryon Street Suite 100 Charlotte, NC 28203
PHONE:	704-586-0007	**P.O. #**	
FAX:	704-586-0373	**PROJECT #**	PPA-040 Former Volvo
DATE RECEIVED:	07/26/2011	**CONTACT:**	Ausha Scott
DATE COMPLETED:	07/29/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	BG-1	Modified TO-15	6.5 "Hg	5 psi
02A	IA-1	Modified TO-15	6.5 "Hg	5 psi
03A	IA-2	Modified TO-15	6.5 "Hg	5 psi
04A	IA-3	Modified TO-15	6.5 "Hg	5 psi
05A	IA-4	Modified TO-15	6.5 "Hg	5 psi
06A	IA-5	Modified TO-15	6.5 "Hg	5 psi
07A	IA-6	Modified TO-15	6.5 "Hg	5 psi
08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA
10AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 07/29/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 Low Level
Hart & Hickman
Workorder# 1107435

Seven 6 Liter Summa Canister (100% Certified) samples were received on July 26, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

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 subtractior

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 and/or LCS.
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.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: BG-1

Lab ID#: 1107435-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.47	0.84	2.3
Chloromethane	0.17	0.66	0.35	1.4
Ethanol	0.86	2.1	1.6	3.9
Acetone	0.86	4.3	2.0	10

Client Sample ID: IA-1

Lab ID#: 1107435-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.84	2.4
Chloromethane	0.17	0.65	0.35	1.3
Freon 11	0.17	0.20	0.96	1.2
Ethanol	0.86	3.4	1.6	6.3
Acetone	0.86	7.1	2.0	17
Methylene Chloride	0.34	0.52	1.2	1.8
Hexane	0.17	1.2	0.60	4.1
Cyclohexane	0.17	0.18	0.59	0.61
Benzene	0.17	0.50	0.55	1.6
Heptane	0.17	0.37	0.70	1.5
Toluene	0.17	1.7	0.64	6.4
Ethyl Benzene	0.17	0.57	0.74	2.5
m,p-Xylene	0.17	2.3	0.74	10
o-Xylene	0.17	0.60	0.74	2.6
4-Ethyltoluene	0.17	0.30	0.84	1.5
1,2,4-Trimethylbenzene	0.17	0.34	0.84	1.7

Client Sample ID: IA-2

Lab ID#: 1107435-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: IA-2

Lab ID#: 1107435-03A

Chloromethane	0.17	0.66	0.35	1.4
Freon 11	0.17	0.25	0.96	1.4
Ethanol	0.86	3.2	1.6	6.0
Acetone	0.86	5.7	2.0	14
Toluene	0.17	0.40	0.64	1.5
Ethyl Benzene	0.17	0.27	0.74	1.2
m,p-Xylene	0.17	1.0	0.74	4.6
o-Xylene	0.17	0.24	0.74	1.0

Client Sample ID: IA-3

Lab ID#: 1107435-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.51	0.84	2.5
Chloromethane	0.17	0.63	0.35	1.3
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	1.4	1.6	2.7
Acetone	0.86	6.5	2.0	16
Hexane	0.17	0.25	0.60	0.89
Heptane	0.17	0.17	0.70	0.71
Toluene	0.17	0.36	0.64	1.4
Ethyl Benzene	0.17	0.33	0.74	1.4
m,p-Xylene	0.17	1.3	0.74	5.7
o-Xylene	0.17	0.28	0.74	1.2

Client Sample ID: IA-4

Lab ID#: 1107435-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
Chloromethane	0.17	0.66	0.35	1.4
Bromomethane	0.17	0.20	0.66	0.78
Freon 11	0.17	0.18	0.96	1.0

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: IA-4

Lab ID#: 1107435-05A

Ethanol	0.86	1.4	1.6	2.6
Acetone	0.86	9.6	2.0	23
Tetrahydrofuran	0.86	0.88	2.5	2.6
Benzene	0.17	0.24	0.55	0.76
Toluene	0.17	0.30	0.64	1.2
Ethyl Benzene	0.17	0.22	0.74	0.95
m,p-Xylene	0.17	0.83	0.74	3.6

Client Sample ID: IA-5

Lab ID#: 1107435-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
Chloromethane	0.17	0.66	0.35	1.4
Bromomethane	0.17	0.22	0.66	0.85
Freon 11	0.17	0.21	0.96	1.2
Ethanol	0.86	2.2	1.6	4.1
Acetone	0.86	7.3	2.0	17
Methylene Chloride	0.34	0.44	1.2	1.5
Toluene	0.17	0.30	0.64	1.1
Ethyl Benzene	0.17	0.38	0.74	1.6
m,p-Xylene	0.17	1.5	0.74	6.7
o-Xylene	0.17	0.30	0.74	1.3

Client Sample ID: IA-6

Lab ID#: 1107435-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.84	2.4
Chloromethane	0.17	0.64	0.35	1.3
Freon 11	0.17	0.19	0.96	1.1
Ethanol	0.86	2.8	1.6	5.3
Acetone	0.86	7.2	2.0	17

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: IA-6

Lab ID#: 1107435-07A

2-Propanol	0.86	1.0	2.1	2.5
Toluene	0.17	0.32	0.64	1.2
Ethyl Benzene	0.17	0.21	0.74	0.92
m,p-Xylene	0.17	0.83	0.74	3.6
o-Xylene	0.17	0.19	0.74	0.83

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: BG-1

Lab ID#: 1107435-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072810**	**Date of Collection:**	**7/25/11 6:02:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 01:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.47	0.84	2.3
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.66	0.35	1.4
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	Not Detected	0.96	Not Detected
Ethanol	0.86	2.1	1.6	3.9
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	4.3	2.0	10
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	Not Detected	0.64	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: BG-1

Lab ID#: 1107435-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072810**	**Date of Collection:**	**7/25/11 6:02:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 01:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	Not Detected	0.74	Not Detected
m,p-Xylene	0.17	Not Detected	0.74	Not Detected
o-Xylene	0.17	Not Detected	0.74	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-1

Lab ID#: 1107435-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072811**	**Date of Collection:**	**7/25/11 6:04:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 02:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.84	2.4
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.65	0.35	1.3
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.20	0.96	1.2
Ethanol	0.86	3.4	1.6	6.3
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	7.1	2.0	17
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	0.52	1.2	1.8
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	1.2	0.60	4.1
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	0.18	0.59	0.61
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	0.50	0.55	1.6
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	0.37	0.70	1.5
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	1.7	0.64	6.4
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-1

Lab ID#: 1107435-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072811**	**Date of Collection:**	**7/25/11 6:04:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 02:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	0.57	0.74	2.5
m,p-Xylene	0.17	2.3	0.74	10
o-Xylene	0.17	0.60	0.74	2.6
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	0.30	0.84	1.5
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	0.34	0.84	1.7
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-2

Lab ID#: 1107435-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072812**	**Date of Collection:**	**7/25/11 6:05:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 03:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.66	0.35	1.4
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.25	0.96	1.4
Ethanol	0.86	3.2	1.6	6.0
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	5.7	2.0	14
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.40	0.64	1.5
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-2

Lab ID#: 1107435-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072812**	**Date of Collection:**	**7/25/11 6:05:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 03:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	0.27	0.74	1.2
m,p-Xylene	0.17	1.0	0.74	4.6
o-Xylene	0.17	0.24	0.74	1.0
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-3

Lab ID#: 1107435-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072813**	**Date of Collection:**	**7/25/11 6:07:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.51	0.84	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.63	0.35	1.3
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	1.4	1.6	2.7
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	6.5	2.0	16
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	0.25	0.60	0.89
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	0.17	0.70	0.71
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.36	0.64	1.4
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-3

Lab ID#: 1107435-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072813**	**Date of Collection:**	**7/25/11 6:07:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	0.33	0.74	1.4
m,p-Xylene	0.17	1.3	0.74	5.7
o-Xylene	0.17	0.28	0.74	1.2
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-4

Lab ID#: 1107435-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072814**	**Date of Collection:**	**7/25/11 6:08:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 04:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.66	0.35	1.4
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	0.20	0.66	0.78
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.18	0.96	1.0
Ethanol	0.86	1.4	1.6	2.6
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	9.6	2.0	23
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	0.88	2.5	2.6
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	0.24	0.55	0.76
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.30	0.64	1.2
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-4

Lab ID#: 1107435-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072814**	**Date of Collection:**	**7/25/11 6:08:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 04:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	0.22	0.74	0.95
m,p-Xylene	0.17	0.83	0.74	3.6
o-Xylene	0.17	Not Detected	0.74	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-5

Lab ID#: 1107435-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072815**	**Date of Collection:**	**7/25/11 6:09:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.84	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.66	0.35	1.4
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	0.22	0.66	0.85
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.21	0.96	1.2
Ethanol	0.86	2.2	1.6	4.1
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	7.3	2.0	17
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	0.44	1.2	1.5
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.30	0.64	1.1
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-5

Lab ID#: 1107435-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072815**	**Date of Collection:**	**7/25/11 6:09:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	0.38	0.74	1.6
m,p-Xylene	0.17	1.5	0.74	6.7
o-Xylene	0.17	0.30	0.74	1.3
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-6

Lab ID#: 1107435-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072816**	**Date of Collection:**	**7/25/11 6:10:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 06:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.49	0.84	2.4
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.17	0.64	0.35	1.3
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.19	0.96	1.1
Ethanol	0.86	2.8	1.6	5.3
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	7.2	2.0	17
2-Propanol	0.86	1.0	2.1	2.5
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.69	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.69	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
Toluene	0.17	0.32	0.64	1.2
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.93	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA-6

Lab ID#: 1107435-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072816**	**Date of Collection:**	**7/25/11 6:10:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**7/28/11 06:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Ethyl Benzene	0.17	0.21	0.74	0.92
m,p-Xylene	0.17	0.83	0.74	3.6
o-Xylene	0.17	0.19	0.74	0.83
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected
Naphthalene	0.86	Not Detected	4.5	Not Detected
2-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
4-Chlorotoluene	0.17	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107435-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072807c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 11:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107435-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072807c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 11:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected
2-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
4-Chlorotoluene	0.10	Not Detected	0.52	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107435-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 08:07 AM**

Compound	%Recovery
Freon 12	108
Freon 114	103
Chloromethane	108
Vinyl Chloride	109
1,3-Butadiene	107
Bromomethane	109
Chloroethane	112
Freon 11	101
Ethanol	119
Freon 113	98
1,1-Dichloroethene	100
Acetone	114
2-Propanol	116
Carbon Disulfide	114
3-Chloropropene	102
Methylene Chloride	100
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	99
Hexane	104
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	98
Tetrahydrofuran	113
Chloroform	99
1,1,1-Trichloroethane	98
Cyclohexane	100
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	110
Benzene	98
1,2-Dichloroethane	104
Heptane	105
Trichloroethene	97
1,2-Dichloropropane	101
1,4-Dioxane	96
Bromodichloromethane	101
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	110
Toluene	99
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	94
Tetrachloroethene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107435-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 08:07 AM**	

Compound	%Recovery
2-Hexanone	104
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	96
Chlorobenzene	98
Ethyl Benzene	103
m,p-Xylene	102
o-Xylene	100
Styrene	98
Bromoform	109
Cumene	100
1,1,2,2-Tetrachloroethane	99
Propylbenzene	103
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	107
Naphthalene	105
2-Chlorotoluene	95
4-Chlorotoluene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107435-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 08:45 AM**

Compound	%Recovery
Freon 12	113
Freon 114	107
Chloromethane	114
Vinyl Chloride	114
1,3-Butadiene	113
Bromomethane	98
Chloroethane	116
Freon 11	107
Ethanol	122
Freon 113	104
1,1-Dichloroethene	111
Acetone	120
2-Propanol	128
Carbon Disulfide	133
3-Chloropropene	64
Methylene Chloride	106
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	118
Hexane	109
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	106
Tetrahydrofuran	126
Chloroform	109
1,1,1-Trichloroethane	106
Cyclohexane	106
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	115
Benzene	107
1,2-Dichloroethane	115
Heptane	113
Trichloroethene	108
1,2-Dichloropropane	112
1,4-Dioxane	111
Bromodichloromethane	113
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	127
Toluene	107
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	105
Tetrachloroethene	104

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107435-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 08:45 AM**	

Compound	**%Recovery**
2-Hexanone	128
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	109
Chlorobenzene	108
Ethyl Benzene	112
m,p-Xylene	112
o-Xylene	109
Styrene	113
Bromoform	116
Cumene	111
1,1,2,2-Tetrachloroethane	112
Propylbenzene	111
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	130
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	116
Naphthalene	157 Q
2-Chlorotoluene	Not Spiked
4-Chlorotoluene	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107435-10AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 09:23 AM**	

Compound	%Recovery
Freon 12	111
Freon 114	104
Chloromethane	113
Vinyl Chloride	112
1,3-Butadiene	109
Bromomethane	97
Chloroethane	116
Freon 11	106
Ethanol	120
Freon 113	103
1,1-Dichloroethene	110
Acetone	117
2-Propanol	126
Carbon Disulfide	131
3-Chloropropene	64
Methylene Chloride	105
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	116
Hexane	109
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	104
Tetrahydrofuran	122
Chloroform	108
1,1,1-Trichloroethane	106
Cyclohexane	104
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	114
Benzene	107
1,2-Dichloroethane	114
Heptane	113
Trichloroethene	106
1,2-Dichloropropane	110
1,4-Dioxane	110
Bromodichloromethane	113
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	127
Toluene	108
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	103
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107435-10AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/28/11 09:23 AM**	

Compound	**%Recovery**
2-Hexanone	127
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	107
Chlorobenzene	107
Ethyl Benzene	112
m,p-Xylene	112
o-Xylene	109
Styrene	112
Bromoform	116
Cumene	111
1,1,2,2-Tetrachloroethane	110
Propylbenzene	112
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	131 Q
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	116
Naphthalene	156 Q
2-Chlorotoluene	Not Spiked
4-Chlorotoluene	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager: Steve Hart
Collected by: (Print and Sign) Jason Soban
Company: Hart & Hickman, PC Email: shart@harthickman.com
Address: 2927 S. Tryon St. Ste. 100 City: Charlotte State: NC Zip: 28203
Phone: 704-586-0007 Fax:

Project Info:
P.O. #:
Project #: PPA-040
Project Name: Former Volvo

Turn Around Time:
☐ Normal
☑ Rush 72-hr
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	BG-1	31921	7/25/11	1002-1802	VOCs by TO-15	28	5		
02A	IA-1	34472	↓	1004-1804	↓	29	6		
03A	IA-2	433		1005-1805		27.5	4		
04A	IA-3	33904		1007-1807		27.5	4		
05A	IA-4	34762		1008-1808		28.5	5		
06A	IA-5	4370		1009-1809		30	6		
07A	IA-6	33884		1010-1810		29	4		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	1855	[signature] ATL	7.26.11 0900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
TO-15 including non-standard method TO-15 compounds 2-chlorotoluene, 4-chlorotoluene, and naphthalene.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No None	1107435

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

8/1/2011
Mr. Kurtis Beshers
Hart & Hickman
2923 South Tryon Street
Suite 100
Charlotte NC 28203

Project Name: Former Volvo
Project #: PPA-040
Workorder #: 1107456

Dear Mr. Kurtis Beshers

The following report includes the data for the above referenced project for sample(s) received on 7/27/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Ausha Scott

Project Manager

Air Toxics LTD.
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WORK ORDER #: 1107456

Work Order Summary

CLIENT:	Mr. Kurtis Beshers Hart & Hickman 2923 South Tryon Street Suite 100 Charlotte, NC 28203	**BILL TO:**	Accounts Payable Hart & Hickman 2923 South Tryon Street Suite 100 Charlotte, NC 28203
PHONE:	704-586-0007	**P.O. #**	
FAX:	704-586-0373	**PROJECT #**	PPA-040 Former Volvo
DATE RECEIVED:	07/27/2011	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/01/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-1	Modified TO-15	8.0 "Hg	5 psi
02A	VMP-2	Modified TO-15	5.5 "Hg	5 psi
03A	VMP-3	Modified TO-15	6.5 "Hg	5 psi
04A	VMP-4	Modified TO-15	8.5 "Hg	5 psi
05A	VMP-5	Modified TO-15	7.5 "Hg	5 psi
06A	VMP-6	Modified TO-15	8.5 "Hg	5 psi
07A	VMP-7	Modified TO-15	6.5 "Hg	5 psi
08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA
10AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman

DATE: 08/01/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-15
Hart & Hickman
Workorder# 1107456

Seven 6 Liter Summa Canister (100% Certified) samples were received on July 27, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

The reported result for Chloromethane in samples VMP-2 , VMP-3 and VMP-6 may be biased high due to co-elution with a non target compound with similar characteristic ions.

The reported result for 4-Ethyltoluene in samples VMP-1, VMP-5 and VMP-7 may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference.

Dilution was performed on samples VMP-1, VMP-3, VMP-4, VMP-5 and VMP-7 due to the presence

of high level target species.

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 and/or LCS.

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

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-1

Lab ID#: 1107456-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	0.61	0.89	2.4	3.4
Ethanol	3.0	11	5.7	21
Acetone	3.0	95	7.2	220
2-Propanol	3.0	15	7.5	38
Carbon Disulfide	3.0	7.3	9.5	23
2-Butanone (Methyl Ethyl Ketone)	3.0	3.6	9.0	11
Benzene	0.61	1.5	1.9	4.9
Toluene	0.61	7.1	2.3	27
Ethyl Benzene	0.61	47	2.6	200
m,p-Xylene	0.61	150	2.6	670
o-Xylene	0.61	27	2.6	120
Cumene	0.61	0.98	3.0	4.8
Propylbenzene	0.61	1.5	3.0	7.6
4-Ethyltoluene	0.61	6.7	3.0	33
1,3,5-Trimethylbenzene	0.61	3.4	3.0	17
1,2,4-Trimethylbenzene	0.61	5.5	3.0	27
2-Chlorotoluene	0.61	0.85	3.2	4.4

Client Sample ID: VMP-2

Lab ID#: 1107456-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.51	0.81	2.5
Chloromethane	0.16	0.37	0.34	0.76
Freon 11	0.16	0.28	0.92	1.5
Ethanol	0.82	5.8	1.5	11
Acetone	0.82	20	1.9	49
2-Propanol	0.82	1.5	2.0	3.8
Carbon Disulfide	0.82	7.9	2.6	25
2-Butanone (Methyl Ethyl Ketone)	0.82	1.4	2.4	4.0
Carbon Tetrachloride	0.16	0.19	1.0	1.2

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-2

Lab ID#: 1107456-02A

Benzene	0.16	0.43	0.52	1.4
4-Methyl-2-pentanone	0.16	0.16	0.67	0.68
Toluene	0.16	0.42	0.62	1.6
Ethyl Benzene	0.16	0.38	0.71	1.6
m,p-Xylene	0.16	0.32	0.71	1.4

Client Sample ID: VMP-3

Lab ID#: 1107456-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.43	6.5	2.1	32
Chloromethane	0.43	0.91	0.88	1.9
Bromomethane	0.43	1.1	1.7	4.3
Ethanol	2.1	53	4.0	100
Freon 113	0.43	0.66	3.3	5.0
Acetone	2.1	280 E	5.1	660 E
2-Propanol	2.1	13	5.2	33
Carbon Disulfide	2.1	62	6.7	190
Hexane	0.43	0.60	1.5	2.1
1,1-Dichloroethane	0.43	2.5	1.7	10
2-Butanone (Methyl Ethyl Ketone)	2.1	9.0	6.3	26
1,1,1-Trichloroethane	0.43	110	2.3	590
Benzene	0.43	1.8	1.4	5.8
Heptane	0.43	0.52	1.8	2.1
Trichloroethene	0.43	1.1	2.3	5.9
1,4-Dioxane	0.43	0.75	1.5	2.7
4-Methyl-2-pentanone	0.43	0.56	1.8	2.3
Toluene	0.43	1.4	1.6	5.3
Tetrachloroethene	0.43	8.8	2.9	60
Ethyl Benzene	0.43	1.7	1.8	7.4
m,p-Xylene	0.43	1.6	1.8	6.8
o-Xylene	0.43	0.43	1.8	1.9
1,2,4-Trimethylbenzene	0.43	0.64	2.1	3.1

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-3

Lab ID#: 1107456-03A

2-Chlorotoluene	0.43	1.1	2.2	5.7

Client Sample ID: VMP-4

Lab ID#: 1107456-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.94	1.2	4.6	6.1
Bromomethane	0.94	1.6	3.6	6.3
Ethanol	4.7	32	8.8	61
Acetone	4.7	510 E	11	1200 E
2-Propanol	4.7	150	11	360
Carbon Disulfide	4.7	34	14	110
Benzene	0.94	6.3	3.0	20
Toluene	0.94	63	3.5	240
Ethyl Benzene	0.94	56	4.0	240
m,p-Xylene	0.94	190	4.1	840
o-Xylene	0.94	50	4.1	220
Cumene	0.94	9.7	4.6	48
Propylbenzene	0.94	14	4.6	68
4-Ethyltoluene	0.94	84	4.6	420
1,3,5-Trimethylbenzene	0.94	140	4.6	690
1,2,4-Trimethylbenzene	0.94	220	4.6	1100

Client Sample ID: VMP-5

Lab ID#: 1107456-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.90	1.2	4.4	6.1
Bromomethane	0.90	4.1	3.5	16
Ethanol	4.5	200	8.4	370
Acetone	4.5	660 E	11	1600 E
2-Propanol	4.5	32	11	78
Carbon Disulfide	4.5	52	14	160

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-5

Lab ID#: 1107456-05A

Hexane	0.90	1.8	3.2	6.3
1,1-Dichloroethane	0.90	1.7	3.6	6.9
2-Butanone (Methyl Ethyl Ketone)	4.5	31	13	92
1,1,1-Trichloroethane	0.90	2.7	4.9	15
Cyclohexane	0.90	4.2	3.1	14
Benzene	0.90	1.5	2.8	4.7
4-Methyl-2-pentanone	0.90	2.4	3.7	9.8
Toluene	0.90	19	3.4	73
Tetrachloroethene	0.90	9.4	6.1	64
Ethyl Benzene	0.90	53	3.9	230
m,p-Xylene	0.90	170	3.9	740
o-Xylene	0.90	37	3.9	160
Propylbenzene	0.90	2.4	4.4	12
4-Ethyltoluene	0.90	10	4.4	51
1,3,5-Trimethylbenzene	0.90	3.6	4.4	18
1,2,4-Trimethylbenzene	0.90	9.7	4.4	48

Client Sample ID: VMP-6

Lab ID#: 1107456-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.63	0.92	3.1
Chloromethane	0.19	0.59	0.39	1.2
Bromomethane	0.19	0.32	0.73	1.2
Freon 11	0.19	0.22	1.0	1.2
Ethanol	0.94	5.2	1.8	9.8
Acetone	0.94	17	2.2	40
2-Propanol	0.94	1.2	2.3	2.9
Carbon Disulfide	0.94	12	2.9	39
Trichloroethene	0.19	0.20	1.0	1.0
Toluene	0.19	0.44	0.70	1.6
Tetrachloroethene	0.19	0.22	1.3	1.5
m,p-Xylene	0.19	0.24	0.81	1.0

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-7

Lab ID#: 1107456-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	0.86	1.1	3.3	4.3
Ethanol	4.3	28	8.0	52
Acetone	4.3	100	10	240
2-Propanol	4.3	15	10	38
Carbon Disulfide	4.3	7.6	13	24
Benzene	0.86	1.9	2.7	6.1
Toluene	0.86	8.1	3.2	30
Ethyl Benzene	0.86	49	3.7	210
m,p-Xylene	0.86	160	3.7	710
o-Xylene	0.86	29	3.7	120
Cumene	0.86	1.1	4.2	5.2
Propylbenzene	0.86	1.8	4.2	8.8
4-Ethyltoluene	0.86	7.6	4.2	37
1,3,5-Trimethylbenzene	0.86	3.7	4.2	18
1,2,4-Trimethylbenzene	0.86	6.1	4.2	30
2-Chlorotoluene	0.86	0.85 J	4.4	4.4 J

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Client Sample ID: VMP-1

Lab ID#: 1107456-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072916**	**Date of Collection:**	**7/26/11 4:25:00 PM**
Dil. Factor:	**6.10**	**Date of Analysis:**	**7/29/11 06:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.61	Not Detected	3.0	Not Detected
Freon 114	0.61	Not Detected	4.3	Not Detected
Chloromethane	0.61	Not Detected	1.2	Not Detected
Vinyl Chloride	0.61	Not Detected	1.6	Not Detected
1,3-Butadiene	0.61	Not Detected	1.3	Not Detected
Bromomethane	0.61	0.89	2.4	3.4
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.61	Not Detected	3.4	Not Detected
Ethanol	3.0	11	5.7	21
Freon 113	0.61	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.61	Not Detected	2.4	Not Detected
Acetone	3.0	95	7.2	220
2-Propanol	3.0	15	7.5	38
Carbon Disulfide	3.0	7.3	9.5	23
3-Chloropropene	3.0	Not Detected	9.5	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
Methyl tert-butyl ether	0.61	Not Detected	2.2	Not Detected
trans-1,2-Dichloroethene	0.61	Not Detected	2.4	Not Detected
Hexane	0.61	Not Detected	2.1	Not Detected
1,1-Dichloroethane	0.61	Not Detected	2.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	3.6	9.0	11
cis-1,2-Dichloroethene	0.61	Not Detected	2.4	Not Detected
Tetrahydrofuran	3.0	Not Detected	9.0	Not Detected
Chloroform	0.61	Not Detected	3.0	Not Detected
1,1,1-Trichloroethane	0.61	Not Detected	3.3	Not Detected
Cyclohexane	0.61	Not Detected	2.1	Not Detected
Carbon Tetrachloride	0.61	Not Detected	3.8	Not Detected
2,2,4-Trimethylpentane	3.0	Not Detected	14	Not Detected
Benzene	0.61	1.5	1.9	4.9
1,2-Dichloroethane	0.61	Not Detected	2.5	Not Detected
Heptane	0.61	Not Detected	2.5	Not Detected
Trichloroethene	0.61	Not Detected	3.3	Not Detected
1,2-Dichloropropane	0.61	Not Detected	2.8	Not Detected
1,4-Dioxane	0.61	Not Detected	2.2	Not Detected
Bromodichloromethane	0.61	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.61	Not Detected	2.8	Not Detected
4-Methyl-2-pentanone	0.61	Not Detected	2.5	Not Detected
Toluene	0.61	7.1	2.3	27
trans-1,3-Dichloropropene	0.61	Not Detected	2.8	Not Detected
1,1,2-Trichloroethane	0.61	Not Detected	3.3	Not Detected
Tetrachloroethene	0.61	Not Detected	4.1	Not Detected

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Client Sample ID: VMP-1

Lab ID#: 1107456-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072916**	**Date of Collection:**	**7/26/11 4:25:00 PM**
Dil. Factor:	**6.10**	**Date of Analysis:**	**7/29/11 06:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.61	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.61	Not Detected	4.7	Not Detected
Chlorobenzene	0.61	Not Detected	2.8	Not Detected
Ethyl Benzene	0.61	47	2.6	200
m,p-Xylene	0.61	150	2.6	670
o-Xylene	0.61	27	2.6	120
Styrene	0.61	Not Detected	2.6	Not Detected
Bromoform	0.61	Not Detected	6.3	Not Detected
Cumene	0.61	0.98	3.0	4.8
1,1,2,2-Tetrachloroethane	0.61	Not Detected	4.2	Not Detected
Propylbenzene	0.61	1.5	3.0	7.6
4-Ethyltoluene	0.61	6.7	3.0	33
1,3,5-Trimethylbenzene	0.61	3.4	3.0	17
1,2,4-Trimethylbenzene	0.61	5.5	3.0	27
1,3-Dichlorobenzene	0.61	Not Detected	3.7	Not Detected
1,4-Dichlorobenzene	0.61	Not Detected	3.7	Not Detected
alpha-Chlorotoluene	0.61	Not Detected	3.2	Not Detected
1,2-Dichlorobenzene	0.61	Not Detected	3.7	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	23	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected
Naphthalene	3.0	Not Detected	16	Not Detected
2-Chlorotoluene	0.61	0.85	3.2	4.4
4-Chlorotoluene	0.61	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: VMP-2

Lab ID#: 1107456-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072917**	**Date of Collection:**	**7/26/11 4:40:00 PM**
Dil. Factor:	**1.64**	**Date of Analysis:**	**7/29/11 06:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.51	0.81	2.5
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.37	0.34	0.76
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.16	Not Detected	0.64	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.28	0.92	1.5
Ethanol	0.82	5.8	1.5	11
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	20	1.9	49
2-Propanol	0.82	1.5	2.0	3.8
Carbon Disulfide	0.82	7.9	2.6	25
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Hexane	0.16	Not Detected	0.58	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	1.4	2.4	4.0
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	0.19	1.0	1.2
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.16	0.43	0.52	1.4
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	0.16	0.67	0.68
Toluene	0.16	0.42	0.62	1.6
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2

Lab ID#: 1107456-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072917**	**Date of Collection:**	**7/26/11 4:40:00 PM**
Dil. Factor:	**1.64**	**Date of Analysis:**	**7/29/11 06:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Ethyl Benzene	0.16	0.38	0.71	1.6
m,p-Xylene	0.16	0.32	0.71	1.4
o-Xylene	0.16	Not Detected	0.71	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected
Naphthalene	0.82	Not Detected	4.3	Not Detected
2-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
4-Chlorotoluene	0.16	Not Detected	0.85	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3

Lab ID#: 1107456-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072920**	**Date of Collection:**	**7/26/11 4:30:00 PM**
Dil. Factor:	**4.28**	**Date of Analysis:**	**7/29/11 09:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.43	6.5	2.1	32
Freon 114	0.43	Not Detected	3.0	Not Detected
Chloromethane	0.43	0.91	0.88	1.9
Vinyl Chloride	0.43	Not Detected	1.1	Not Detected
1,3-Butadiene	0.43	Not Detected	0.95	Not Detected
Bromomethane	0.43	1.1	1.7	4.3
Chloroethane	2.1	Not Detected	5.6	Not Detected
Freon 11	0.43	Not Detected	2.4	Not Detected
Ethanol	2.1	53	4.0	100
Freon 113	0.43	0.66	3.3	5.0
1,1-Dichloroethene	0.43	Not Detected	1.7	Not Detected
Acetone	2.1	280 E	5.1	660 E
2-Propanol	2.1	13	5.2	33
Carbon Disulfide	2.1	62	6.7	190
3-Chloropropene	2.1	Not Detected	6.7	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
Methyl tert-butyl ether	0.43	Not Detected	1.5	Not Detected
trans-1,2-Dichloroethene	0.43	Not Detected	1.7	Not Detected
Hexane	0.43	0.60	1.5	2.1
1,1-Dichloroethane	0.43	2.5	1.7	10
2-Butanone (Methyl Ethyl Ketone)	2.1	9.0	6.3	26
cis-1,2-Dichloroethene	0.43	Not Detected	1.7	Not Detected
Tetrahydrofuran	2.1	Not Detected	6.3	Not Detected
Chloroform	0.43	Not Detected	2.1	Not Detected
1,1,1-Trichloroethane	0.43	110	2.3	590
Cyclohexane	0.43	Not Detected	1.5	Not Detected
Carbon Tetrachloride	0.43	Not Detected	2.7	Not Detected
2,2,4-Trimethylpentane	2.1	Not Detected	10	Not Detected
Benzene	0.43	1.8	1.4	5.8
1,2-Dichloroethane	0.43	Not Detected	1.7	Not Detected
Heptane	0.43	0.52	1.8	2.1
Trichloroethene	0.43	1.1	2.3	5.9
1,2-Dichloropropane	0.43	Not Detected	2.0	Not Detected
1,4-Dioxane	0.43	0.75	1.5	2.7
Bromodichloromethane	0.43	Not Detected	2.9	Not Detected
cis-1,3-Dichloropropene	0.43	Not Detected	1.9	Not Detected
4-Methyl-2-pentanone	0.43	0.56	1.8	2.3
Toluene	0.43	1.4	1.6	5.3
trans-1,3-Dichloropropene	0.43	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.43	Not Detected	2.3	Not Detected
Tetrachloroethene	0.43	8.8	2.9	60

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3

Lab ID#: 1107456-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072920**	**Date of Collection:**	**7/26/11 4:30:00 PM**
Dil. Factor:	**4.28**	**Date of Analysis:**	**7/29/11 09:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.1	Not Detected	8.8	Not Detected
Dibromochloromethane	0.43	Not Detected	3.6	Not Detected
1,2-Dibromoethane (EDB)	0.43	Not Detected	3.3	Not Detected
Chlorobenzene	0.43	Not Detected	2.0	Not Detected
Ethyl Benzene	0.43	1.7	1.8	7.4
m,p-Xylene	0.43	1.6	1.8	6.8
o-Xylene	0.43	0.43	1.8	1.9
Styrene	0.43	Not Detected	1.8	Not Detected
Bromoform	0.43	Not Detected	4.4	Not Detected
Cumene	0.43	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.43	Not Detected	2.9	Not Detected
Propylbenzene	0.43	Not Detected	2.1	Not Detected
4-Ethyltoluene	0.43	Not Detected	2.1	Not Detected
1,3,5-Trimethylbenzene	0.43	Not Detected	2.1	Not Detected
1,2,4-Trimethylbenzene	0.43	0.64	2.1	3.1
1,3-Dichlorobenzene	0.43	Not Detected	2.6	Not Detected
1,4-Dichlorobenzene	0.43	Not Detected	2.6	Not Detected
alpha-Chlorotoluene	0.43	Not Detected	2.2	Not Detected
1,2-Dichlorobenzene	0.43	Not Detected	2.6	Not Detected
1,2,4-Trichlorobenzene	2.1	Not Detected	16	Not Detected
Hexachlorobutadiene	2.1	Not Detected	23	Not Detected
Naphthalene	2.1	Not Detected	11	Not Detected
2-Chlorotoluene	0.43	1.1	2.2	5.7
4-Chlorotoluene	0.43	Not Detected	2.2	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4

Lab ID#: 1107456-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072921**	**Date of Collection:**	**7/26/11 4:33:00 PM**
Dil. Factor:	**9.35**	**Date of Analysis:**	**7/29/11 09:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.94	1.2	4.6	6.1
Freon 114	0.94	Not Detected	6.5	Not Detected
Chloromethane	0.94	Not Detected	1.9	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Bromomethane	0.94	1.6	3.6	6.3
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
Ethanol	4.7	32	8.8	61
Freon 113	0.94	Not Detected	7.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Acetone	4.7	510 E	11	1200 E
2-Propanol	4.7	150	11	360
Carbon Disulfide	4.7	34	14	110
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	1.9	Not Detected	6.5	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Tetrahydrofuran	4.7	Not Detected	14	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
2,2,4-Trimethylpentane	4.7	Not Detected	22	Not Detected
Benzene	0.94	6.3	3.0	20
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Heptane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
1,4-Dioxane	0.94	Not Detected	3.4	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
Toluene	0.94	63	3.5	240
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4

Lab ID#: 1107456-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072921**	**Date of Collection:**	**7/26/11 4:33:00 PM**
Dil. Factor:	**9.35**	**Date of Analysis:**	**7/29/11 09:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	56	4.0	240
m,p-Xylene	0.94	190	4.1	840
o-Xylene	0.94	50	4.1	220
Styrene	0.94	Not Detected	4.0	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
Cumene	0.94	9.7	4.6	48
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
Propylbenzene	0.94	14	4.6	68
4-Ethyltoluene	0.94	84	4.6	420
1,3,5-Trimethylbenzene	0.94	140	4.6	690
1,2,4-Trimethylbenzene	0.94	220	4.6	1100
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected
2-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
4-Chlorotoluene	0.94	Not Detected	4.8	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5

Lab ID#: 1107456-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072922**	**Date of Collection:**	**7/26/11 4:27:00 PM**
Dil. Factor:	**8.95**	**Date of Analysis:**	**7/29/11 10:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.90	1.2	4.4	6.1
Freon 114	0.90	Not Detected	6.2	Not Detected
Chloromethane	0.90	Not Detected	1.8	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Bromomethane	0.90	4.1	3.5	16
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
Ethanol	4.5	200	8.4	370
Freon 113	0.90	Not Detected	6.8	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Acetone	4.5	660 E	11	1600 E
2-Propanol	4.5	32	11	78
Carbon Disulfide	4.5	52	14	160
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.8	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Hexane	0.90	1.8	3.2	6.3
1,1-Dichloroethane	0.90	1.7	3.6	6.9
2-Butanone (Methyl Ethyl Ketone)	4.5	31	13	92
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Tetrahydrofuran	4.5	Not Detected	13	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	2.7	4.9	15
Cyclohexane	0.90	4.2	3.1	14
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
2,2,4-Trimethylpentane	4.5	Not Detected	21	Not Detected
Benzene	0.90	1.5	2.8	4.7
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Heptane	0.90	Not Detected	3.7	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
1,4-Dioxane	0.90	Not Detected	3.2	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
4-Methyl-2-pentanone	0.90	2.4	3.7	9.8
Toluene	0.90	19	3.4	73
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	9.4	6.1	64

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5

Lab ID#: 1107456-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072922**	**Date of Collection:**	**7/26/11 4:27:00 PM**
Dil. Factor:	**8.95**	**Date of Analysis:**	**7/29/11 10:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	53	3.9	230
m,p-Xylene	0.90	170	3.9	740
o-Xylene	0.90	37	3.9	160
Styrene	0.90	Not Detected	3.8	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
Propylbenzene	0.90	2.4	4.4	12
4-Ethyltoluene	0.90	10	4.4	51
1,3,5-Trimethylbenzene	0.90	3.6	4.4	18
1,2,4-Trimethylbenzene	0.90	9.7	4.4	48
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected
2-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
4-Chlorotoluene	0.90	Not Detected	4.6	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6

Lab ID#: 1107456-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072923**	**Date of Collection:**	**7/26/11 4:36:00 PM**
Dil. Factor:	**1.87**	**Date of Analysis:**	**7/29/11 11:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.63	0.92	3.1
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.19	0.59	0.39	1.2
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	Not Detected	0.41	Not Detected
Bromomethane	0.19	0.32	0.73	1.2
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.19	0.22	1.0	1.2
Ethanol	0.94	5.2	1.8	9.8
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Acetone	0.94	17	2.2	40
2-Propanol	0.94	1.2	2.3	2.9
Carbon Disulfide	0.94	12	2.9	39
3-Chloropropene	0.94	Not Detected	2.9	Not Detected
Methylene Chloride	0.37	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.67	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Hexane	0.19	Not Detected	0.66	Not Detected
1,1-Dichloroethane	0.19	Not Detected	0.76	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.91	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.64	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Benzene	0.19	Not Detected	0.60	Not Detected
1,2-Dichloroethane	0.19	Not Detected	0.76	Not Detected
Heptane	0.19	Not Detected	0.77	Not Detected
Trichloroethene	0.19	0.20	1.0	1.0
1,2-Dichloropropane	0.19	Not Detected	0.86	Not Detected
1,4-Dioxane	0.19	Not Detected	0.67	Not Detected
Bromodichloromethane	0.19	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.77	Not Detected
Toluene	0.19	0.44	0.70	1.6
trans-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	0.22	1.3	1.5

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6

Lab ID#: 1107456-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072923**	**Date of Collection:**	**7/26/11 4:36:00 PM**
Dil. Factor:	**1.87**	**Date of Analysis:**	**7/29/11 11:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.94	Not Detected	3.8	Not Detected
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.86	Not Detected
Ethyl Benzene	0.19	Not Detected	0.81	Not Detected
m,p-Xylene	0.19	0.24	0.81	1.0
o-Xylene	0.19	Not Detected	0.81	Not Detected
Styrene	0.19	Not Detected	0.80	Not Detected
Bromoform	0.19	Not Detected	1.9	Not Detected
Cumene	0.19	Not Detected	0.92	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.92	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.92	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.92	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.92	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.97	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.94	Not Detected	6.9	Not Detected
Hexachlorobutadiene	0.94	Not Detected	10	Not Detected
Naphthalene	0.94	Not Detected	4.9	Not Detected
2-Chlorotoluene	0.19	Not Detected	0.97	Not Detected
4-Chlorotoluene	0.19	Not Detected	0.97	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7

Lab ID#: 1107456-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072924**	**Date of Collection:**	**7/26/11 4:25:00 PM**
Dil. Factor:	**8.55**	**Date of Analysis:**	**7/30/11 12:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Chloromethane	0.86	Not Detected	1.8	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	0.86	1.1	3.3	4.3
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
Ethanol	4.3	28	8.0	52
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	4.3	100	10	240
2-Propanol	4.3	15	10	38
Carbon Disulfide	4.3	7.6	13	24
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	1.7	Not Detected	5.9	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	4.3	Not Detected	13	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	4.3	Not Detected	20	Not Detected
Benzene	0.86	1.9	2.7	6.1
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	0.86	Not Detected	3.1	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	0.86	8.1	3.2	30
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7

Lab ID#: 1107456-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072924**	**Date of Collection:**	**7/26/11 4:25:00 PM**
Dil. Factor:	**8.55**	**Date of Analysis:**	**7/30/11 12:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	49	3.7	210
m,p-Xylene	0.86	160	3.7	710
o-Xylene	0.86	29	3.7	120
Styrene	0.86	Not Detected	3.6	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	1.1	4.2	5.2
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
Propylbenzene	0.86	1.8	4.2	8.8
4-Ethyltoluene	0.86	7.6	4.2	37
1,3,5-Trimethylbenzene	0.86	3.7	4.2	18
1,2,4-Trimethylbenzene	0.86	6.1	4.2	30
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Naphthalene	4.3	Not Detected	22	Not Detected
2-Chlorotoluene	0.86	0.85 J	4.4	4.4 J
4-Chlorotoluene	0.86	Not Detected	4.4	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107456-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072908c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 12:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.10	Not Detected	0.21	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107456-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072908c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 12:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected
2-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
4-Chlorotoluene	0.10	Not Detected	0.52	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107456-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072902**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:22 AM**

Compound	%Recovery
Freon 12	112
Freon 114	108
Chloromethane	114
Vinyl Chloride	111
1,3-Butadiene	113
Bromomethane	112
Chloroethane	115
Freon 11	106
Ethanol	121
Freon 113	101
1,1-Dichloroethene	101
Acetone	117
2-Propanol	118
Carbon Disulfide	107
3-Chloropropene	106
Methylene Chloride	104
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	102
Hexane	107
1,1-Dichloroethane	109
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	100
Tetrahydrofuran	119
Chloroform	104
1,1,1-Trichloroethane	104
Cyclohexane	102
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	112
Benzene	102
1,2-Dichloroethane	113
Heptane	109
Trichloroethene	101
1,2-Dichloropropane	106
1,4-Dioxane	100
Bromodichloromethane	106
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	115
Toluene	102
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	98
Tetrachloroethene	97

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107456-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:22 AM**	

Compound	**%Recovery**
2-Hexanone	107
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	100
Chlorobenzene	100
Ethyl Benzene	105
m,p-Xylene	105
o-Xylene	105
Styrene	101
Bromoform	110
Cumene	105
1,1,2,2-Tetrachloroethane	102
Propylbenzene	109
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	112
Naphthalene	108
2-Chlorotoluene	85
4-Chlorotoluene	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107456-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072904**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 09:48 AM**

Compound	%Recovery
Freon 12	114
Freon 114	105
Chloromethane	117
Vinyl Chloride	114
1,3-Butadiene	112
Bromomethane	79
Chloroethane	118
Freon 11	107
Ethanol	117
Freon 113	102
1,1-Dichloroethene	107
Acetone	117
2-Propanol	125
Carbon Disulfide	129
3-Chloropropene	60
Methylene Chloride	103
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	117
Hexane	106
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	103
Tetrahydrofuran	123
Chloroform	107
1,1,1-Trichloroethane	105
Cyclohexane	102
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	112
Benzene	106
1,2-Dichloroethane	116
Heptane	112
Trichloroethene	104
1,2-Dichloropropane	109
1,4-Dioxane	108
Bromodichloromethane	110
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	126
Toluene	105
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	101
Tetrachloroethene	99

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107456-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 09:48 AM**	

Compound	**%Recovery**
2-Hexanone	125
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	104
Chlorobenzene	106
Ethyl Benzene	108
m,p-Xylene	109
o-Xylene	107
Styrene	110
Bromoform	112
Cumene	108
1,1,2,2-Tetrachloroethane	107
Propylbenzene	112
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	92
Naphthalene	121
2-Chlorotoluene	Not Spiked
4-Chlorotoluene	Not Spiked

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107456-10AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 10:26 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	104
Chloromethane	115
Vinyl Chloride	113
1,3-Butadiene	111
Bromomethane	101
Chloroethane	115
Freon 11	106
Ethanol	117
Freon 113	103
1,1-Dichloroethene	108
Acetone	117
2-Propanol	124
Carbon Disulfide	128
3-Chloropropene	61
Methylene Chloride	104
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	117
Hexane	108
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	103
Tetrahydrofuran	123
Chloroform	108
1,1,1-Trichloroethane	106
Cyclohexane	104
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	114
Benzene	104
1,2-Dichloroethane	115
Heptane	111
Trichloroethene	104
1,2-Dichloropropane	108
1,4-Dioxane	107
Bromodichloromethane	111
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	125
Toluene	104
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	101
Tetrachloroethene	98

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107456-10AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e072905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 10:26 AM**	

Compound	**%Recovery**
2-Hexanone	124
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	104
Chlorobenzene	104
Ethyl Benzene	107
m,p-Xylene	108
o-Xylene	106
Styrene	109
Bromoform	112
Cumene	108
1,1,2,2-Tetrachloroethane	107
Propylbenzene	109
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	114
Naphthalene	154 Q
2-Chlorotoluene	Not Spiked
4-Chlorotoluene	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager: Steve Hart

Collected by: (Print and Sign) Jason Sobon [signature]

Company: Hart & Hickman Email: shart@harthickman.com

Address: 2923 S. Tryon St. Ste 100 City: Charlotte State: NC Zip: 28203

Phone: 704-586-0007 Fax:

Project Info:
P.O. #:
Project #: PPA-040
Project Name: Former Volvo

Turn Around Time:
☐ Normal
☑ Rush 72-hr (specify)

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	VMP-1	439	7/26/11	825-1625	VOCs by TO-15	30	7.0		
02A	VMP-2	35160	↓	840-1640	↓	27	2.5		
03A	VMP-3	34236		830-1630		30	5.5		
04A	VMP-4	30844		833-1633		28	6.5		
05A	VMP-5	5733		827-1627		29	6.0		
06A	VMP-6	31147		836-1636		29	7.5		
07A	VMP-7	34319		825-1625		28	4.0		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	7/26/11 1740	[signature] ATL	7.27.11 0900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
TO-15 including non-standard method TO-15 compounds 2-chlorotoluene, 4-chlorotoluene, and naphthalene.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		ambient	Good	Yes No None	1107406

Form 1293 rev.11