INDOOR AIR QUALITY SAMPLING
DEARCOP FARM SITE
ID #8-28-016
MODIFICATION NO. D002625-10.2

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Prepared for:

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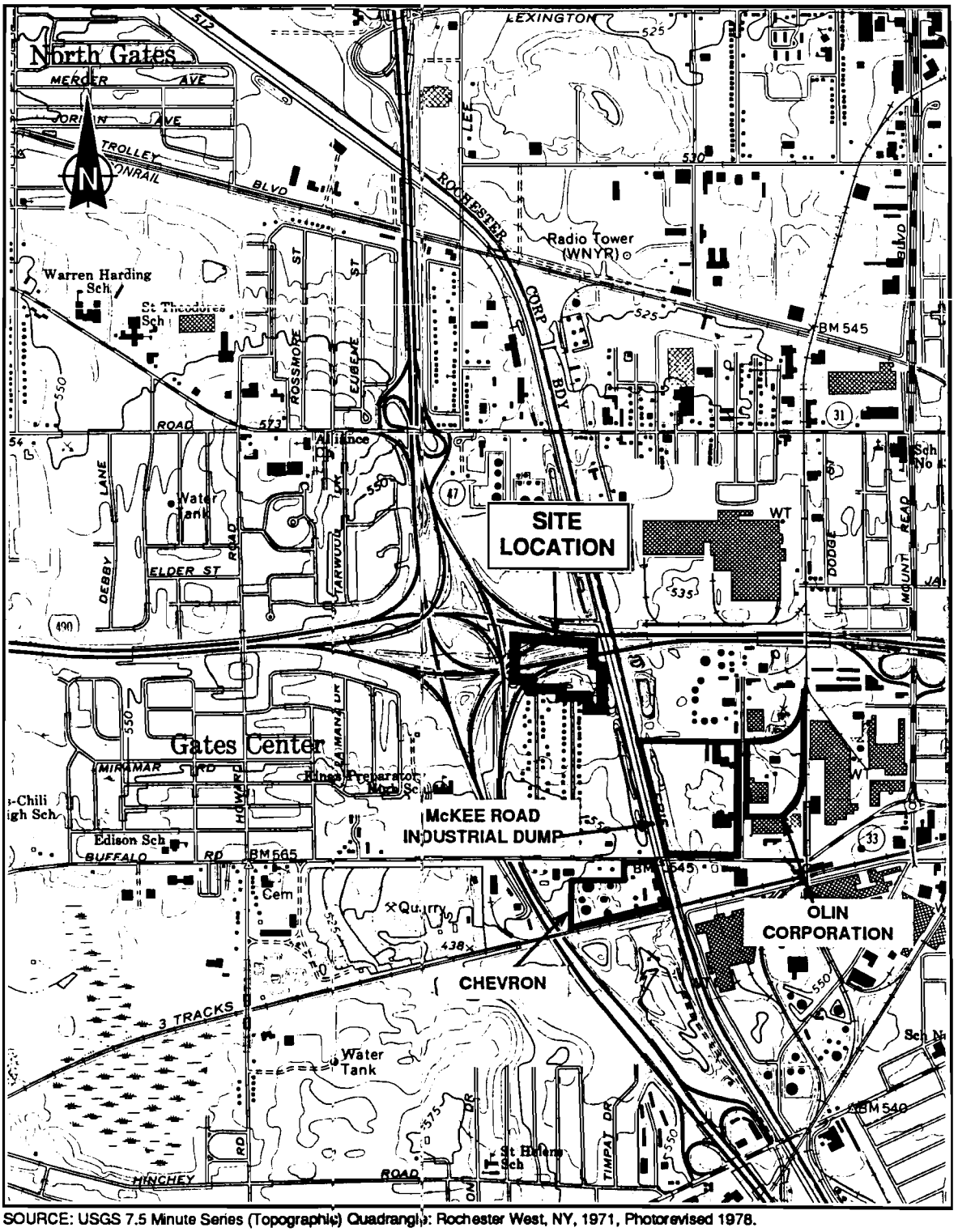
1. INTRODUCTION

Ecology and Environment, Inc., (E & E) under contract to the New York State, Department of Environmental Conservation (NYSDEC), was tasked to perform an indoor air quality (IAQ) survey in specific homes surrounding the Dearcop Farm site (No. 8-28-016) in the Town of Gates, Monroe County, New York (see Figure 1-1). This IAQ survey was performed under Work Assignment No. D002625-10 of E & E's State Superfund Standby Contract as a continuation of the site investigation.



SOURCE: USGS 7.5 Minute Series (Topographic) Quadrangle: Rochester West, NY, 1971, Photorevised 1978.

SCALE 1:24,000

0 ½ 1 Mile

0 .5 1 Kilometer

Figure 1-1
SITE LOCATION MAP, DEARCOP FARM SITE

2. PURPOSE

The purpose of the IAQ survey was to determine whether the contaminants (in particular, vinyl chloride) found in the groundwater from monitoring well MW-9S at the Dearcop Farm Site were migrating into nearby residences through the soil.

3. SURVEY METHODOLOGY

3.1 RESIDENTIAL SAMPLING

3.1.1 Residence Selection

A letter was sent and phone calls were made to a select number of residents by NYSDEC soliciting interest in having air quality testing performed. From those who responded, eight residences were chosen, four from Dearcop Drive and four from Varian Lane. In addition, two background sample locations were selected by the New York State Department of Health (NYSDOH) from outside the target area. These background samples were collected from residences on Nova Lane and Avanti Lane. The two background residences were selected by NYSDOH based on their proximity to the site. Both homes are located approximately between 0.3 and 0.5 mile to the southwest and west (up prevailing wind) of the site, near enough to represent the site vicinity, but far enough from the site to not be affected by site contaminants. Selected residents were contacted and testing times and dates were scheduled. Residents were asked to curtail cleaning and hobby activities for 48 hours prior to the scheduled testing dates. A map of the sample locations has been included as Figure 3-1. Table 3-1 provides details on the sample locations and sample numbers for the indoor air survey.

3.1.2 Air Sampling with Canisters

Three air samples were collected from each designated residence. One air sample was collected from the basement to target the probable entrance point of any volatile organic compounds (VOCs) from the surrounding soil gas or groundwater and to determine areas of maximum VOC concentrations to which the resident(s) may be exposed.

A second air sample was collected from the first floor of each residence, usually in the living room, to represent the dwelling level where residents spend the most time and therefore could be exposed to air contaminants for the longest duration.

Also at this time, an ambient air sample was collected from outside each residence to represent background VOC concentrations. The outside sample location was chosen such that the location of the residence relative to the sample location would not influence sample collection. Appendix A contains copies of all air sampling data sheets.

For each sampling event, approximately 15 liters of air were drawn through an AGS automated sample pump into a 6-liter stainless steel Summa® passivated sample canister. Samples were collected continuously for a minimum of 4 hours. A total of 27 samples were delivered to E & E's Analytical Services Center (ASC) for analysis using a gas chromatograph/mass spectrometer (GC/MS) according to United States Environmental Protection Agency (EPA) Method TO-14 for VOCs.

3.1.3 Soil Gas Sampling

Four soil gas samples were collected from the perimeter of each of the residences in the target area. The sample points were located between 1 and 3 feet from the midpoint of each side of the house and from a depth of between 4 and 6 feet. The exact location of the sample point depended on soil compactness and accessibility (that is, impediments such as driveways, fences, footers, and shrubbery had to be avoided). The resulting sample data would indicate the level of soil gas contaminants that could potentially infiltrate into the home from the surrounding soils and groundwater.

Soil gas samples were collected using a KV Associates soil gas sampling system and a vacuum chamber. A high-volume pump was used to induce a vacuum in the chamber, thus drawing the sample into a Tedlar bag located inside the vacuum chamber. Approximately 1 liter of soil gas was collected for each sample. A total of 35 soil gas samples (residential and monitoring well) were collected and delivered to the ASC for gas chromatography analysis according to EPA Method TO-[illegible] for VOCs.

At the request of NYSDOH (and with NYSDEC approval), a fifth soil gas sample was collected approximately 50 feet from the southeast corner of the house at 206 Dearcop Drive. This sample was collected to determine whether elevated soil gas concentrations found during previous sampling efforts remained in the soil.

Two soil gas samples were also collected near monitoring well MW-9S. One sample was collected northeast of the well and the other was collected southwest of the well at a depth of 4 feet. These data were used to correlate possible soil gas contamination resulting from contaminated groundwater.

3.1.4 Sump Water Sampling

At each designated residence with water present in the sump, a sample of sump water was collected to quantify any contamination found in the sump water that could enter into the home through volatilization. A water sample was collected from the sump pit of each residence by submerging two 40 milliliter (ml) volatile organic analysis (VOA) bottles directly into the standing water. A total of nine samples were collected and delivered to the ASC for purgeable halogenated hydrocarbon analysis according to EPA method 8010. The sump pit of one residence (18 Nova Lane) was dry at the time of the survey and therefore could not be sampled.

3.1.5 Household Inventory

Residents were asked to identify the storage locations of all household cleaning products and maintenance products. The survey team listed any items that may contain compounds that could contribute to contaminant levels found during air sampling. Appendix B contains copies of the household chemical inventory sheets.

The contents of each designated residence were surveyed for items that may contain VOCs that would be detected during the analysis of air samples. This information was used to identify internal sources of air pollutants that may have impacted sample results. The inventory included items such as:

- Home maintenance - cleaning supplies, pesticides, paints, thinners, removers, lubricants;
- Pet care - pesticides, grooming;
- Garden - pesticides, herbicides, fertilizers;
- Hobby - paints, glues, chemicals, photography development chemicals;
- Business - paints, glues, chemicals; and

- Automotive maintenance - cleaners, paints, lubricants, polishes.

3.2 MONITORING WELL MW-9S SAMPLING

Monitoring well MW-9S is located within the boundaries of the site near the northern end of Varian Lane, which is a residential area. Previous sampling results (4/93 and 8/93) indicated that, compared with other sample readings, the highest readings of VOCs were obtained from monitoring well MW-9S. Because of its relatively high contaminant levels and its proximity to residences, monitoring well MW-9S was sampled on April 11, 1994, for comparison with the residential air samples. One groundwater sample was collected from monitoring well MW-9S and submitted to E & E's ASC for VOC analysis.

A minimum of three well volumes of water were purged from the well prior to sampling. Purging and sampling was accomplished using a dedicated bailer. The sample was delivered to the ASC for purgeable halogenated hydrocarbon analysis according to EPA method 8010 for VOCs.

The April 11, 1994, groundwater sample results, when compared with the results of the soil gas samples collected from near the well, may provide a correlation between soil contamination and groundwater contamination.

3.3 WATER LEVEL MEASUREMENTS

Groundwater Levels

All 17 groundwater monitoring wells, on and off site, were measured for water depth to create contour maps of the groundwater surface in both the interface and deep bedrock aquifers (see Figures 3-2 and 3-3).

The water level in each monitoring well was measured from the top of the inner casing (TOIC) (see Table 3-2). These measurements were collected using a standard water level indicator, which was decontaminated between each well measurement.

Canal Water Level

The water level of the Erie Canal was measured at a point where it is adjacent to the site. The water level measurement of the canal was taken from a permanent marker located on the western bank under the bridge of the eastbound I-490. This measurement is also reported in Table 3-2.

The groundwater in the vicinity of the Dearcop site is affected by the artificial seasonal rising and lowering of the water level in the adjacent Barge Canal based on the shipping season. Groundwater elevation data collected from all site monitoring wells as part of the remedial investigation (RI) of the site indicated that both the interface and deep bedrock aquifers slope generally toward the canal year-round, but that the gradient changes with drastic canal water level changes. In general, during the shipping season when the canal water level is high, the groundwater surfaces of both aquifers are less steep than when the canal water level is low.

Appendix C contains a copy of the field log notebook for all tasks performed under the IAQ survey.

Table 3-1

INDOOR AIR SURVEY, SAMPLE LOCATIONS
DEARCOP FARM SITE

Sample Location	Sample Number	Air Canister			Sump Water	Soil Gas				Comment
		Basement	Living Room	Outdoors		North	East	South	West	
45 Avanti	DCA-001			X						
	DCA-002	X								
	DCA-003		X							
	DCW-001				X					
18 Nova	DCA-004	X								
	DCA-005		X							
93 Dearcop	DCA-006	X								
	DCA-007		X							
	DCA-008			X						
	DCW-002				X					
	DCSG-001						X			
	DCSG-002					X				
	DCSG-003								X	
	DCSG-004							X		
24 Varian	DCA-009	X								
	DCA-010		X							
	DCA-011			X						Composited with 116 Dearcop
	DCW-003				X					

Table 3-1

INDOOR AIR SURVEY, SAMPLE LOCATIONS
DEARCOP FARM SITE

Sample Location	Sample Number	Air Canister			Sump Water	Soil Gas				Comment
		Basement	Living Room	Outdoors		North	East	South	West	
	DCSG-005							X		
	DCSG-006								X	
	DCSG-007						X			
	DCSG-008					X				
116 Dearcop	DCA-012	X								
	DCA-013		X							
	DCSG-009								X	
	DCSG-010							X		
	DCSG-011						X			
	DCSG-012					X				
94 Dearcop	DCA-014	X								
	DCA-015		X							
	DCA-016			X						Composited with 5 Varian
	DCW-004				X					
	DCSG-013								X	
	DCSG-014					X				
	DCSG-015						X			
	DCSG-016							X		

Table 3-1

INDOOR AIR SURVEY, SAMPLE LOCATIONS
DEARCOP FARM SITE

Sample Location	Sample Number	Air Canister			Sump Water	Soil Gas				Comment
		Basement	Living Room	Outdoors		North	East	South	West	
5 Varian	DCA-017	X								
	DCA-018		X							
	DCW-005				X					
	DCSG-017						X			
	DCSG-018							X		
	DCSG-019								X	
	DCSG-020					X				
32 Varian	DCA-019	X								
	DCA-020		X							
	DCA-021			X						
	DCW-006				X					Active filling and pumping
	DCSG-023								X	
	DCSG-024							X		
	DCSG-025					X				
	DCSG-026						X			
14 Varian	DCA-022	X								
	DCA-023		X							
	DCA-024			X						

Table 3-1

INDOOR AIR SURVEY, SAMPLE LOCATIONS
DEARCOP FARM SITE

Sample Location	Sample Number	Air Canister			Sump Water	Soil Gas				Comment
		Basement	Living Room	Outdoors		North	East	South	West	
	DCW-007				X					
	DCSG-027								X	
	DCSG-028							X		
	DCSG-029						X			
	DCSG-030					X				
206 Dearcop	DCA-025	X								
	DCA-026		X							
	DCA-027			X						
	DCW-008				X					
	DCSG-031								X	
	DCSG-032							X		
	DCSG-033						X			
	DCSG-034					X				
	DCSG-035									Duplicate QA/QC sample from southeast corner

Table 3-1

INDOOR AIR SURVEY, SAMPLE LOCATIONS
DEARCOP FARM SITE

Sample Location	Sample Number	Air Canister			Sump Water	Soil Gas				Comment
		Basement	Living Room	Outdoors		North	East	South	West	
Monitoring Well MW-9S	DCMW-9S									Groundwater from well MW-9S
	DCSG-21									Soil gas from 2.5 feet southwest of well
	DCSG-22									Soil gas from 2.5 feet northeast of well
Trip Blanks	DCTB-001									QA/QC trip blank
	DCTB-002									QA/QC trip blank
	DCTB-003									QA/QC trip blank
	DCTB-004									QA/QC trip blank
	DCTB-005									QA/QC trip blank
	DCTB-006									QA/QC trip blank
	DCTB-007									QA/QC trip blank

Note: Seven trip blank samples DCTB-001 through DCTB-007 were collected, one each day of sampling, for QA/QC purposes.

Table 3-2

SUMMARY OF MONITORING
WELL WATER LEVEL ELEVATIONS
DEARCOP FARM SITE

Well Number	Water Elevations 4/11/94
DR-1	502.44
MW-1D	502.48
DR-2	527.09
MW-2D(N)	502.43
DR-3	506.74
MW-3D	502.50
MW-4S	538.86
MW-5S	524.41
MW-5D(N)	510.64
MW-6S	521.70
MW-6D	502.50
MW-7S	506.62
MW-8S	502.56
MW-9S	525.57
MW-9D	502.34
MW-10S	533.24
MW-10D	502.50
Canal[a]	502.41

a Canal water elevation measured from the eastbound I-490 bridge based upon the surveyed elevation at a paint mark below the bridge 516.55 feet above mean sea level.

ob5e058b

BACKGROUND SAMPLE LOCATIONS APPROXIMATELY 0.3 AND 0.5 MILE TO THE WEST AND SOUTHWEST OF DEARCOP DRIVE (SEE INSET)

45 AVANTI DR.	
DCW –	001
DCA –	001
DCA –	002
DCA –	003

18 NOVA LANE	
DCA –	004
DCA –	005

206 DEARCOP DR.	
DCW –	008
DCA –	025
DCA –	026
DCA –	027
DCSG –	031
DCSG –	032
DCSG –	033
DCSG –	034
DCSG –	035

116 DEARCOP DR.	
DCW –	004
DCA –	011
DCA –	012
DCA –	013
DCSG –	009
DCSG –	010
DCSG –	011
DCSG –	012

94 DEARCOP DR.	
DCW –	004A
DCA –	014
DCA –	015
DCA –	016
DCSG –	013
DCSG –	014
DCSG –	015
DCSG –	016

93 DEARCOP DR.	
DCW –	002
DCA –	004
DCA –	005
DCA –	006
DCSG –	001
DCSG –	002
DCSG –	003
DCSG –	004

32 VARIAN LANE	
DCW –	006
DCA –	019
DCA –	020
DCA –	021
DCSG –	023
DCSG –	024
DCSG –	025
DCSG –	026

24 VARIAN LANE	
DCW –	003
DCA –	009
DCA –	010
DCA –	011
DCSG –	005
DCSG –	006
DCSG –	007
DCSG –	008

14 VARIAN LANE	
DCW –	007
DCA –	022
DCA –	023
DCA –	024
DCSG –	027
DCSG –	028
DCSG –	029
DCSG –	030

5 VARIAN LANE	
DCW –	005
DCA –	016
DCA –	017
DCA –	018
DCSG –	017
DCSG –	018
DCSG –	019
DCSG –	020

DENSE TREES

SITE LOCATION

18 NOVA LANE

45 AVANTI DRIVE

McKEE ROAD INDUSTRIAL DUMP

DEARCOP FARM SITE PROPERTY BOUNDARY (16.488 ACRES)

I-390

I-490 (EASTBOUND)

I-490 (WESTBOUND)

MH-2

R.O.W.

MW-6D

MW-6S

FORMER 10' DIRT ROAD

FORMER BURN PIT AREA

DITCH

MW-10D

MW-10S

MW-9D

MW-9S

MH-1

DR-3

MW-3D

MW-3D(N)

MW-7S

MW-8S

MW-8D

MW-1D

DR-1

MW-2D

MW-2D(N)

DR-2

MH-3

MH-4

MW-4S

MW-4D

MW-5D

MW-5S

MW-5D(N)

FOOT PATH

BIKE PATH

EDGE OF WATER

N.Y.S. BARGE CANAL

SCALE IN FEET

0 200 400 600

LEGEND

- ● – INDOOR AIR QUALITY SAMPLING LOCATION
- DCW –XXX – SUMP WATER SAMPLE
- DCA – XXX – WHOLE AIR SAMPLE
- DCSG – XXX – SOIL GAS SAMPLE
- O DR–X – EXISTING MONITORING WELL
- MW–XX– PHASE I RI MONITORING WELL
- Ⓢ MH–X – EXISTING MANHOLE
- APPROXIMATE LOCATION OF GEOTEXTILE FILTER FABRIC W/1–2' OF FILL OVER TOP

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Figure 3–1 INDOOR AIR QUALITY SAMPLE LOCATION MAP DEARCOP FARM SITE

ob5a059b

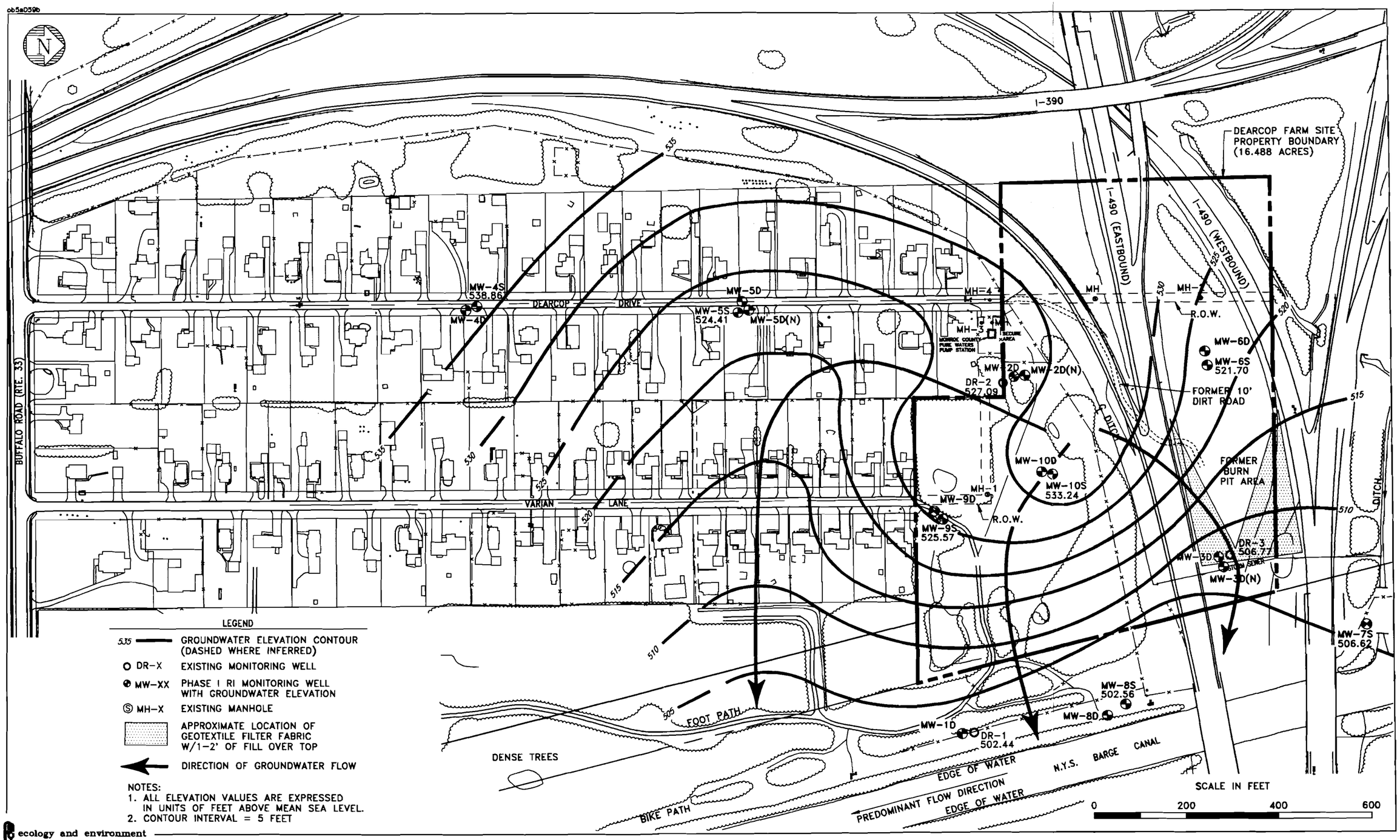

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Figure 3-2 INTERFACE AQUIFER POTENTIOMETRIC SURFACE MAP APRIL 11, 1994 DEARCOP FARM SITE

ob5s060b

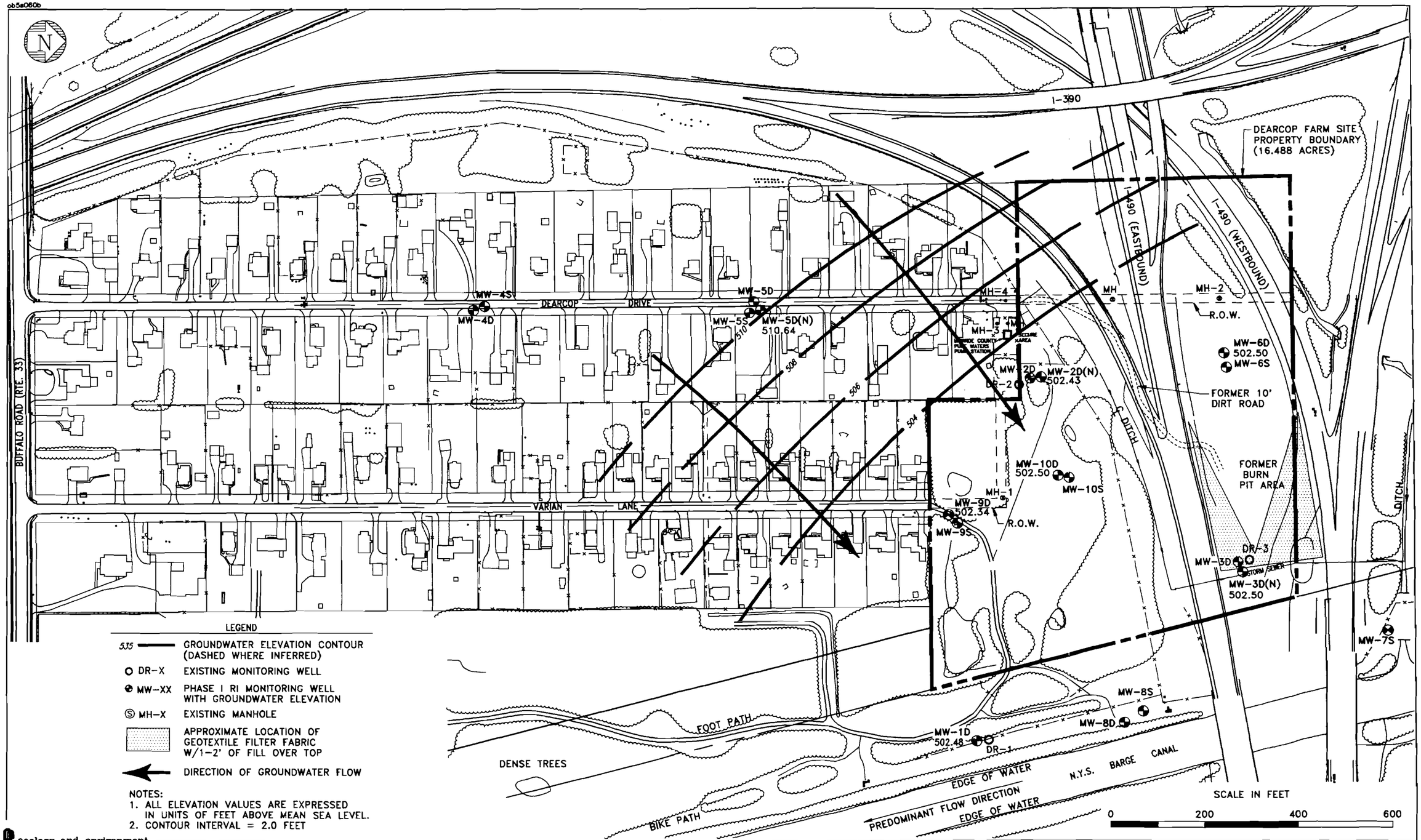

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Figure 3-3 DEEP BEDROCK AQUIFER POTENTIOMETRIC SURFACE MAP APRIL 11, 1994 DEARCOP FARM SITE

4. RESULTS

4.1 RESIDENTIAL SAMPLE RESULTS

The following discussions summarize the data used for comparative analysis at each residence where an IAQ survey was performed. Some analytical results for methylene chloride (MC) were qualified with a "B" by the laboratory, which indicates the results were also found in the blank. In cases in which the field sample contained MC at levels comparable (less than 10 times) to the associated blank level, this compound was considered non-detect as attributed to typical laboratory background contamination and was not listed on Tables 4-1 through 4-5. Conversely, when levels exceeded 10 times the blank level, MC was considered as site related and was therefore listed on the tables without the qualifier. The analytical results that were qualified with a "J", which indicates that the results were below laboratory detection limits, were also included in the sample summary tables, but were not included in the discussions because the statistical accuracy of the quantitative value is questionable. Appendix D contains copies of the analytical data sheets, including detection limits, for each field sample as well as laboratory blanks.

45 Avanti Drive

The residence at 45 Avanti Drive was one of two sampled to represent background data for the area. Analysis of the sump water sample revealed levels of MC at 2.9 micrograms per liter (μg/L) and 1,2-dichloroethane (1,2-DCA) at 1.8 μg/L. The air sample collected in the basement indicated levels of MC and toluene at 2.04 micrograms per cubic meter ($\mu g/m^3$) and 2.17 $\mu g/m^3$, respectively. The air sample collected in the living room indicated levels of MC and toluene at 1.93 and 1.78 $\mu g/m^3$, respectively. Analysis of the air sample collected outside the residence indicated negative results.

The residents at 45 Avanti Drive develop photographs in the basement as a hobby. Ventilation provided for the darkroom exhausts directly into the basement. The household inventory identified several home maintenance products being stored in the basement. Specifically, several brands of paint strippers and thinners were found, which are known to contain MC and toluene. These products are a likely source of the air contaminants detected at this residence.

18 Nova Lane

The residence at 18 Nova Lane was also sampled to represent background conditions for the area. Analysis of the air sample collected in the basement showed that 1.56 $\mu g/m^3$ of toluene was present. No air pollutants were identified at levels above the laboratory detection limits in the air sample collected in the living room. The work plan required that only one of the two background homes have an air sample collected from outside of the residence. This was performed at 45 Avanti Drive. In addition, because the sump was dry on the day of sampling at 18 Nova Lane, a sump water sample was not collected. The work plan did not require collection of soil gas samples from either background residence because they were located at a distance at which site-related fill material was not expected to be present.

One of the residents at 18 Nova Lane provides manicure services as a small business in the basement. The household inventory identified several items used for nail repair, which contain constituents tested for in laboratory analyses. In particular, the nail polishes used are known to contain toluene and are likely sources of the toluene detected in the basement sample.

93 Dearcop Drive

Analysis of the sump water sample collected at 93 Dearcop Drive indicated negative results. The air sample collected in the basement showed that 3.45 $\mu g/m^3$ of toluene and 1.34 $\mu g/m^3$ of xylene were present. The air sample collected in the living room also indicated the presence of toluene and xylene, but at higher concentrations than were found in the basement (1.0 $\mu g/m^3$ and 2.99 $\mu g/m^3$, respectively). In addition, 1.18 $\mu g/m^3$ of 1,2,4-trimethylbenzene was detected. Analysis of the air sample collected outside the residence indicated negative results. Soil gas samples also indicated negative results for all four sample locations (north, south, east, west).

The household inventory identified various makes of paint strippers which were being stored in the basement. These items are known to contain toluene and xylene and because no contaminants were detected in the soil gas around the home, it is likely that chemicals found in the indoor air are attributable to these products.

94 Dearcop Drive

Analysis of the sump water sample collected at 94 Dearcop Drive indicated that 6.43 $\mu g/L$ of MC was present. The air sample collected in the basement indicated 37.4 $\mu g/m^3$ of MC and 42.5 $\mu g/m^3$ of toluene. The air sample collected in the living room indicated 2.18 $\mu g/m^3$ of MC and 39.8 $\mu g/m^3$ of toluene. Results of the air sample collected outside the residence indicated that the levels of all VOCs analyzed for were below detection limits. Analytical results of the soil gas samples indicated the following 1,1,1-trichloroethane (1,1,1-TCA) levels: north - 10 $\mu g/m^3$, south - 11 $\mu g/m^3$, and west - 13 $\mu g/m^3$.

One of the residents at 94 Dearcop Drive refinishes furniture in the basement on occasion. No forced ventilation system was present and there appeared to be minimal attempt to aerate the basement using natural air flow. The household inventory identified several products stored in the basement, which may have contributed to the air pollutants detected. Specifically, paint/varnish strippers and thinners were found, which are known to contain MC, xylene, and toluene. Because these compounds were not found in the soil gas samples, but were present in the indoor air, it is likely that the source of the contaminants is attributable to these products.

116 Dearcop Drive

Analysis of the sump water sample collected at 116 Dearcop Drive indicated a level of 0.76 $\mu g/L$ of 1,1-DCA. All air samples collected from the basement and the living room indicated levels below the laboratory detection limits. Analysis of the air sample collected outside the residence indicated negative results. Analysis of the soil gas samples indicated levels of MC at the following sample locations: north - 49 $\mu g/m^3$, south - 160 $\mu g/m^3$, east - 25 $\mu g/m^3$, and west - 63 $\mu g/m^3$. In addition, vinyl chloride was detected in the south wall sample at 61 $\mu g/m^3$, but its presence is considered questionable by the laboratory because it is suspected to be a system artifact (see page D-144 in Appendix D).

The household inventory identified several maintenance products that have the potential for contributing to the air pollutants investigated during the IAQ survey. In particular, paint thinners, which are known to contain toluene, were being stored in the basement.

206 Dearcop Drive

Analysis of the sump water sample collected at 206 Dearcop Drive indicated negative results. The air sample collected in the basement indicated 1.2 $\mu g/m^3$ of 1,4-dichlorobenzene, 10.9 $\mu g/m^3$ of MC, and 1.62 $\mu g/m^3$ of toluene. The air sample collected in the living room indicated 2.99 $\mu g/m^3$ of 1,4-dichlorobenzene. Analysis of the air sample collected outside the residence indicated negative results. Analytical results of the soil gas samples indicated levels of 1,1,1-TCA in the following sample locations: south - 27 $\mu g/m^3$, east - 13 $\mu g/m^3$, and west - 27 $\mu g/m^3$. Analysis of the soil gas sample taken at the southeast corner of the residence indicated levels below laboratory detection limits.

One of the residents of 206 Dearcop Drive was involved in a project of refurbishing an automobile engine in the basement but not during the day of sampling. The household inventory identified several products used in refurbishing that may have contributed to the air pollutants detected in the air sample from the basement. In particular, paint strippers were found, which are known to contain MC and toluene. In addition, modelling cements were found, which are also known to contain toluene. No products were identified on the living room level that would be suspected to add to the 1,4-dichlorobenzene concentration, but the sampling team noted that the doors and windows to the residence were open during the morning prior to the IAQ survey, which could reduce the levels of air pollutants in the residence.

Five soil gas samples were collected from 206 Dearcop Drive to confirm past soil gas results obtained during the Phase II RI (E & E 1994), during which 1,1,1-TCA was detected. The IAQ sampling did confirm the presence of this compound in the soil gas at 206 Dearcop Drive. In addition, 1,1,1-TCA was not detected in the southeast corner of the property where previously detected, but adjacent to the south, east, and west sides of the house. Such variations in contaminant results are typical in soil gas studies. Soil gas sampling by nature is best used as a screening tool because the natural conditions of the soil and soil gas are not constant (i.e., degree of water saturation, temperature, compaction, depth to groundwater

table, movement of groundwater contaminant plume). Resampling usually provides useful but variable results because of the above factors and because the sample is rarely collected from the exact same location and depth.

5 Varian Lane

This residence is located adjacent to the site and is the residence sampled nearest to well MW-9S. Analysis of the sump water sample collected at 5 Varian Lane indicated negative results. Analytical results of the air samples collected in the basement, living room, and outside the residence were all below the laboratory detection limits. Analysis of the soil gas samples indicated negative results for all four sample locations (north, south, east, west).

The household inventory did not identify any items that may contain compounds investigated during laboratory analysis.

14 Varian Lane

Analysis of the sump water sample collected at 14 Varian Lane indicated negative results. Analytical results of the air sample collected in the basement were below laboratory detection limits. The air sample collected in the living room indicated toluene at a level of 3.18 $\mu g/m^3$. Results of the air sample collected outside the residence indicated the presence of MC at 4.03 $\mu g/m^3$. Analytical results of the soil gas samples indicated the presence of 1,1,1-TCA at the following sample locations: north - 10 $\mu g/m^3$, south - 20 $\mu g/m^3$, and east - 16 $\mu g/m^3$.

The residents at 14 Varian Lane had moved in approximately 4 days before the IAQ survey took place. The household inventory identified several maintenance products stored in the basement. In particular, wood filler was found, which is known to contain toluene. Because toluene was not found in the soil gas samples around the home, it is likely that the source of this compound is within the home. No products were found on the living room level that may have contributed to the air pollutants identified, but the sampling team noted that much of the wood molding in the house may have recently been refinished. The residents were unsure of when this work may have been performed.

24 Varian Lane

Analysis of the sump water sample collected at 24 Varian Lane indicated the presence of 0.61 μg/L of 1,1-DCA. The air sample collected in the basement indicated a level of 6.62 $\mu g/m^3$ of MC. Analysis of the air sample collected in the living room indicated 3.47 $\mu g/m^3$ of MC. Results of the air sample collected outside the residence were below the laboratory detection limit. Analysis of the soil gas samples indicated levels of MC, 1,1-dichloroethene (DCE), and 1,1,1-TCA at the following sample locations:

- North
  - 120 $\mu g/m^3$ of MC,
  - 15 $\mu g/m^3$ of 1,1,1-TCA,
- South
  - 290 $\mu g/m^3$ of MC,
  - 47 $\mu g/m^3$ of 1,1-DCE,
  - 26 $\mu g/m^3$ of 1,1,1-TCA,
- East
  - 12 $\mu g/m^3$ of MC,
  - 13 $\mu g/m^3$ of 1,1,1-TCA,
- West
  - 13 $\mu g/m^3$ of MC, and
  - 12 $\mu g/m^3$ of 1,1,1-TCA.

The household inventory identified several maintenance products stored in the basement that may have contributed to air pollutant levels. Specifically, several brands of paint strippers were found, which are known to contain MC and toluene.

32 Varian Lane

Analysis of the sump water sample collected at 32 Varian Lane indicated negative results. The air sample collected in the basement indicated a level of 4.03 $\mu g/m^3$ of MC. Results of the air sample collected in the living room indicated 1.24 $\mu g/m^3$ of xylene and 2.04 $\mu g/m^3$ of toluene. Results of the air sample collected outside the residence were below the laboratory detection limit. Analysis of the soil gas samples indicated 1,1,1-TCA at the following sample locations: south - 12 $\mu g/m^3$ and east - 11 $\mu g/m^3$.

The household inventory identified several maintenance products stored in the basement, which may have contributed to the air pollutant levels. In particular, paint strippers were found, which are known to contain MC and toluene. No products were found on the living room level that would be suspected of contributing to the toluene or xylene

levels detected in the air sample. Summaries of the VOCs detected in IAQ survey samples are provided in Tables 4-1 to 4-5.

4.2 MONITORING WELL MW-9S RESULTS

Analysis of the water sample collected from MW-9S indicated 1.8 μg/L of vinyl chloride, 1.0 μg/L of trans-1,2-DCE, 32 μg/L of cis-1,2-DCE, and 7.3 μg/L of trichloroethene (TCE). The soil gas samples collected from near the well indicated the presence of 1,1,1-TCA in samples DCSG-021 and DCSG-022 (20 $\mu g/m^3$ and 13 μg/L, respectively). The groundwater sample contained significantly fewer VOC contaminants and at lower concentrations than those encountered from the same well during the August 1993 Phase II RI sampling event. The results were similar, however, to those encountered in the Phase I RI (E & E 1993). These fluctuations may be related to seasonal variations in precipitation and snowmelt and/or canal water levels. With only three sets of data from well MW-9S and two from each of the site wells, confirmation of this relationship could not be made.

4.3 GROUNDWATER LEVEL RESULTS

The two groundwater contour maps that were created for both the interface and bedrock aquifers support hydrologic conclusions made in the Phase I Remedial Investigation Report (E & E 1993). The contour map of the interface aquifer potentiometric surface (see Figure 3-2) shows a general flow direction to the east toward the Barge Canal, with localized flow components from the site to the northeast, south, and southeast. These localized flow patterns indicate that groundwater in the interface aquifer generally flows from the site southeast in the direction of Dearcop Drive and, more so, Varian Lane.

The contour map of the bedrock aquifer potentiometric surface (see Figure 3-3) shows a general groundwater flow from southwest to northeast. Based on this flow direction, residents on Dearcop Drive and Varian Lane would not be affected by site-derived contaminants in the bedrock aquifer groundwater.

Table 4-1

VOLATILE ORGANIC COMPOUNDS DETECTED IN BASEMENT AIR SAMPLES
DEARCOP FARM SITE
($\mu g/m^3$)

Organic Compound	Basement Air Samples								Site Background Range[a]	EPA Data Base Median[b]	NYSDOH Control Homes[c]	
	DCA-006	DCA-009	DCA-012	DCA-014	DCA-017	DCA-019	DCA-022	DCA-025			Median	Range
1,4-Dichlorobenzene	—	—	—	—	—	—	—	1.20	—	1.7	3.3	1 - 10
Dichloro fluoromethane	—	—	—	—	—	—	—	0.708 J	—	NA	NA	NA
Methylene chloride	—	6.62	—	37.4	—	4.03	—	10.9	0 - 2.04	NA	5	0.9 - 45
Toluene	3.45	0.345 J	0.451 J	42.5	0.584 J	0.451 J	0.849 J	1.62	1.57 - 2.18	32	12	1 - 95
1,1,1-Trichloroethane	0.256 J	0.329 J	—	—	0.183 J	—	—	0.165 J	0.220 - 0.275	10	5	1.3 - 18
1,2,4-Trimethylbenzene	0.529 J	—	—	—	—	—	—	0.224 J	0.488 - 0.264	1.4	5	2.5 - 43
Xylene	1.34	0.322 J	0.322 J	—	—	—	—	0.576 J	0.553 - 0.622	34	11	1 - 64

[a] Site background range is based on samples collected from two homes located 0.5 and 0.3 mile to the west and southwest of the site.

[b] EPA - Shah, J.J. and Heyerdahl, E.K. 1988. National Ambient Volatile Organic Compounds (VOCs) Database Update, U.S. Environmental Protection Agency Research Triangle Park, NC.

[c] NYSDOH Control Home - New York State Department of Health, 1993. Compilation of indoor and outdoor air data from control homes sampled in New York State.

Key:

J = Estimated value.
NA = No value listed.

Table 4-2

VOLATILE ORGANIC COMPOUNDS DETECTED IN LIVING ROOM AIR SAMPLES DEARCOP FARM SITE ($\mu g/m^3$)

Organic Compound	Living Room Air Samples							
	DCA-007	DCA-010	DCA-013	DCA-015	DCA-018	DCA-020	DCA-023	DCA-026
Benzene	1.00 J	—	—	—	—	0.78 J	—	—
Chloromethane	—	—	—	—	—	2.13 J	—	—
1,4-Dichlorobenzene	—	—	0.38 J	—	—	—	—	2.99
Dichloro difluoromethane	—	—	0.18 J	—	—	—	—	0.37 J
Ethylbenzene	0.530 J	—	—	—	—	0.23 J	—	—
Methylene chloride	—	3.47	—	21.9	0.98 J	1.38 J	—	1.01 J
Toluene	7.16	0.57 J	0.58 J	39.8	0.57 J	2.04	3.18	1.09 J
Trichloroethene	—	—	—	—	—	—	0.13 J	—
1,1,1-trichloroethane	—	0.35 J	0.20 J	—	0.13 J	—	0.32 J	0.18 J
1,2,4-trimethylbenzene	1.18	—	—	—	—	0.28 J	—	—
1,3,5-trimethylbenzene	3.25 J	—	—	—	—	—	—	—
Xylene	2.99	0.37 J	0.30 J	2.0 J	—	1.24	0.30 J	—

Key at end of table.

Table 4-2

VOLATILE ORGANIC COMPOUNDS DETECTED IN LIVING ROOM AIR SAMPLES DEARCOP FARM SITE ($\mu g/m^3$)

Organic Compound	Site Background Range[a]	EPA Data Base Median[b]	NYSDOH Control Homes[c]	
			Median	Range
Benzene	0.66 - 0.69	10	3.3	0.8 - 50
Chloromethane	—	NA	NA	NA
1,4-Dichlorobenzene	0 - 0.13	1.7	5	1 - 17
Dichlorofluoromethane	—	NA	NA	NA
Ethylbenzene	—	4.8	2.8	1 - 23
Methylene chloride	1.07 - 1.93	NA	4.9	0.9 - 240
Toluene	1.22 - 1.78	32	18	1 - 170
Trichloroethene	—	NA	NA	NA
1,1,1-trichloroethane	0.24 - 0.26	10	5	1.4 - 197
1,2,4-trimethylbenzene	—	1.4	5	2.5 - 16
1,3,5-trimethylbenzene	—	1.4	5	2.5 - 15
Xylene	0.39 - 0.46	34	12	1 - 90

Key at end of table.

Table 4-2 (Cont.)

[a] Site background range is based on samples collected from two homes located 0.5 and 0.3 mile to the west and southwest of the site.

[b] EPA - Shah, J.J. and Heyerdahl, E.K. 1988. National Ambient Volatile Organic Compounds (VOCs) Database Update, U.S. Environmental Protection Agency Research Triangle Park, NC.

[c] NYSDOH Control Home - New York State Department of Health, 1993. Compilation of indoor and outdoor air data from control homes sampled in New York State.

Key:

J = Estimated value.
NA = No value listed.

Table 4-3

VOLATILE ORGANIC COMPOUNDS DETECTED IN OUTDOOR AIR SAMPLES
DEARCOP FARM SITE
($\mu g/m^3$)

Organic Compound	Outdoor Air Samples							Site Background Range[a]	EPA Data Base[b]	NYSDOH Control Homes[c]	
	DCA-001	DCA-008	DCA-011	DCA-016	DCA-021	DCA-024	DCA-027			Median	Range
1,4-dichlorobenzene	—	—	—	—	—	0.22 J	—	—	0.3	3.5	1 - 7
Dichloro difluoromethane	—	—	—	0.18 J	—	—	—	—	NA	NA	NA
Methylene chloride	—	—	—	—	0.66 J	4.03	—	—	2.7	2.5	0.4 - 22
Toluene	—	—	—	—	0.37 J	—	—	—	7.1	5	1 - 93
Xylene	—	—	0.58 J	—	0.18 J	—	—	—	15.9	7.2	0.5 - 19

a Site background range is based on samples collected from two homes located 0.5 and 0.3 mile to the west and southwest of the site.

b EPA - Shah, J.J. and Heyerdahl, E.K. 1988. National Ambient Volatile Organic Compounds (VOCs) Database Update, U.S. Environmental Protection Agency Research Triangle Park, North Carolina.

c NYSDOH Control Home - New York State Department of Health, 1993. Compilation of indoor and outdoor air data from control homes sampled in New York State.

Key:

J = Estimated value.
NA = No value listed.

Table 4-4

VOLATILE ORGANIC COMPOUNDS DETECTED IN SUMP WATER SAMPLES DEARCOP FARM SITE (μg/L)

Organic Compound	Sump Water Samples								Site Background Sample[a]
	DCW-002	DCW-003	DCW-004	DCW-004A	DCW-005	DCW-006	DCW-007	DCW-008	
1,1-Dichloroethane	—	0.61	0.76	—	—	—	—	—	0
1,2-Dichloroethane	—	—	—	—	—	—	—	—	1.8
Methylene chloride	—	—	—	6.3	—	—	—	—	2.9

[a] Background sample was collected from 45 Avanti, approximately 0.3 mile southwest of the site.

Table 4-5

VOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL GAS AND GROUNDWATER SAMPLES DEARCOP FARM SITE ($\mu g/m^3$)

Sample Number	Organic Compounds						
	1,1-DCE	MC	1,1,1-TCA	VC	Trans-1,2-DCE	Cis-1,2-DCE	TCE
DCSG-001	—	—	—	—	—	—	—
DCSG-002	—	—	—	—	—	—	—
DCSG-003	—	—	—	—	—	—	—
DCSG-004	—	—	—	—	—	—	—
DCSG-005	47	290	26	—	—	—	—
DCSG-006	—	13	12	—	—	—	—
DCSG-007	—	12	13	—	—	—	—
DCSG-008	—	120	15	—	—	—	—
DCSG-009	—	63	—	—	—	—	—
DCSG-010	—	160	—	61 N	—	—	—
DCSG-011	—	25	—	—	—	—	—
DCSG-012	—	49	—	—	—	—	—
DCSG-013	—	—	3	—	—	—	—
DCSG-014	—	—	0	—	—	—	—
DCSG-015	—	—	—	—	—	—	—
DCSG-016	—	—	1	—	—	—	—
DCSG-017	—	—	—	—	—	—	—
DCSG-018	—	—	—	—	—	—	—
DCSG-019	—	—	—	—	—	—	—
DCSG-020	—	34	—	—	—	—	—
DCSG-21[a]	—	60	20	—	—	—	—
DCSG-022[a]	—	500	13	—	—	—	—
DCSG-023	—	—	7.8 J	—	—	—	—
DCSG-024	—	—	12	—	—	—	—
DCSG-025	—	—	5.9 J	—	—	—	—

Key at end of table.

Table 4-5

VOLATILE ORGANIC COMPOUNDS DETECTED
IN SOIL GAS AND GROUNDWATER SAMPLES
DEARCOP FARM SITE
($\mu g/m^3$)

Sample Number	Organic Compounds						
	1,1-DCE	MC	1,1,1-TCA	VC	Trans-1,2-DCE	Cis-1,2-DCE	TCE
DCSG-026	—	—	11	—	—	—	—
DCSG-027	—	—	—	—	—	—	—
DCSG-028	—	—	20	—	—	—	—
DCSG-029	—	—	16	—	—	—	—
DCSG-030	—	—	10	—	—	—	—
DCSG-031	—	36	27	—	—	—	—
DCSG-032	—	37	27	—	—	—	—
DCSG-033	—	31	13	—	—	—	—
DCSG-034	—	37	—	—	—	—	—
DCSG-035	—	32	—	—	—	—	—
DCMW-9S	—	—	—	1.8[b]	1.0[b]	32[b]	7.3[b]

[a] Collected from on site near well MW-9S.
[b] Values for groundwater are in units of $\mu g/L$.

Key:

DCE = Dichloroethene.
J = Estimated value.
MC = Methylene chloride.
N = Presence of this compound is questionable (see page D-144 in Appendix D).
TCA = Trichloroethane.
TCE = Trichloroethene.
VC = Vinyl chloride.

5. FINDINGS

After review and comparison of the laboratory data of all samples collected and the household inventory for each participating residence, E & E presents the following findings:

- No vinyl chloride was detected in any indoor air samples collected during this survey.
- At three residences, 206 Dearcop Drive, 14 Varian Lane, and 24 Varian Lane, low concentrations of 1,1,1-TCA and/or MC were detected in both the soil gas and in the indoor air. Because of these very low concentrations and the variety of products containing these compounds found in the residences, the portion of these contaminants attributable to soil gas intrusion versus the portion attributable to household products could not be determined.
- None of the levels of indoor air contaminants exceeded all three criteria used for comparison.

6. REFERENCES

Ecology and Environment Engineering, P.C., 1994, Phase II Remedial Investigation Report, Addendum to Phase I Report, Dearcop Farm Site, Gates, New York, NYSDEC.

_____, 1993, Phase I Remedial Investigation Report, Dearcop Farm Site, Gates, New York, NYSDEC.

New York State Department of Health, 1993, Control Home, compilation of indoor and outdoor air data from control homes samples in New York State.

United States Environmental Protection Agency, 1988, National Ambient Volatile Organic Compounds (VOCs) Database Update, Shah, J.J., and Heyerdahl, E.K., Triangle Park, North Carolina.

APPENDIX A

AIR SAMPLING DATA SHEETS

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-001	Date: 3-30-94
Location: Outside at Lassuzo home / 45 AVANTI	
Sampling Technicians: MATT Kim	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 005

Certified Clean: yes ✓ no ___ Date: 3/30/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi. @1046

Duty Cycle Setting: 100 → 50 Pump Setting: Continuous ✓ Intermittent ___

Time: Start 1025
Stop 1352
Net _____

Elapsed Time: 3.35

Canister Information:

Canister #: 11567

initial vacuum pressure at lab(inches of Hg): -25
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 23
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ~ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: _____

_____

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-002	Date: 3/30/94
Location: Basement of Isuzu home/45 AVANTI	
Sampling Technicians: MATT KIM	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 002

Certified Clean: yes ✓ no ___ Date: 3/30/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous ✓ Intermittent ___

Time: Start 1018 Elapsed Time: 4.00
Stop 1418
Net _____

Canister Information:

Canister #: 11569

initial vacuum pressure at lab(inches of Hg): -30
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 21
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: _____

_____

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: OB-3070
Sample ID: ST DCA-003	Date: 3/30/94
Location: Upstairs in Lisuzzo home (45 AVANTI)	
Sampling Technicians: MATT Kim	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 001

Certified Clean: yes ✓ no ___ Date: 3/30/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi. @ 1040

Duty Cycle Setting: 100 → 50 Pump Setting: Continuous ✓ Intermittent ___

Time: Start 1015
Stop 1415
Net _____

Elapsed Time: 3.97

Canister Information:

Canister #: 11568

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 21
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: _____

_____

Comments (ie. summary of weather conditions, activities, diagram, etc.):

45 Avanti

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: OB-5070
Sample ID: DCA-004	Date: 4-4-94
Location: 18 NOVA LANE (RUTA HOME) BASEMENT	
Sampling Technicians: KEITH HORN & JIM RICHERT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 005

Certified Clean: yes X no ___ Date: 4/4/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous ✓ Intermittent ___

Time: Start ~~0810~~ 0845 Elapsed Time: 3.83
Stop 1235
Net _____

Canister Information:

Canister #: 11562

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): ~~30~~ JR
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-005	Date: 4-4-94
Location: 18 NOVA LANE (RUTH) MAIN FLOOR	
Sampling Technicians: KIETH HORN / JIM RICHERT	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 001

Certified Clean: yes X no ___ Date: 4/4/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start ~~0815~~ 0828 0845
Stop 1235
Net _____

Elapsed Time: 3.83 (3 HRS + 50 MIN)

Canister Information:

Canister #: 11563

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 21
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: _____

LOW

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: 0B5070
Sample ID: DCA-006	Date: 4-4-94
Location: 93 DEARCOP (MOSTYN) BASEMENT	
Sampling Technicians: Jim Richert + K. Horn	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: ~~0001~~ 001

Certified Clean: yes X no ___ Date: 4/4/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1) 0.058 Y/min	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous ✓ Intermittent ___

Time: Start 1320 Stop 1713 Net _____ Elapsed Time: 3.87

Canister Information:

Canister #: 11564

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 20
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: Deercop Farms	Job #: 013 5070
Sample ID: DCA-007	Date: 4-4-94
Location: 93 Deercop (mostly) Inside Living room	
Sampling Technicians: J. Richart + K. Horan	

Sampler Type: SIS AGS-1/B other _____ Sampler ID: ~~007~~ 005

Certified Clean: yes ✓ no ___ Date: 4/4/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1) 0.058 l/min	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous ✓ Intermittent ___

Time: Start 1320
Stop 1720
Net _____

Elapsed Time: 3.99

Canister Information:

Canister #: 11561

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 18
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: Deacon Farms	Job #: 03 5070
Sample ID: DCA-008	Date: 4-4-94
Location: 93 Deacon (mostly) outside	
Sampling Technicians: N. Richert + K. Hora	

Sampler Type: (SIS AGS-1/0) other _____ Sampler ID: ~~008~~ 002

Certified Clean: yes X no ___ Date: 4/4/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1) 0.058 L/min	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 13:20 Elapsed Time: 3.95
Stop 1715
Net _____

Canister Information:

Canister #: 11568

initial vacuum pressure at lab(inches of Hg): -30
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 21
pressure when received at lab (psi): ___

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: Low

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: OB-5070
Sample ID: DCA-009	Date: 4-6-94
Location: 24 VARIAN DRIVE (SCHOTZER) BASEMENT	
Sampling Technicians: KEITH HORN & JIM RICHERT	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 001

Certified Clean: yes X no___ Date: 4/6/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ____

Time: Start 0945 Elapsed Time: 3.95
Stop 1345
Net _____

Canister Information:

Canister #: 11568

initial vacuum pressure at lab(inches of Hg): -29
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 18
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

4.7.94

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: QB-3070
Sample ID: DCA-010	Date: 4-6-94
Location: 24 VARIAN LANE - LIVINGROOM	
Sampling Technicians: K. HORN & J. Richert	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 005

Certified Clean: yes X no___ Date: 4/6/94 QA sample ID: ---

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0945 Elapsed Time: 400
Stop 1345
Net _____

Canister Information:

Canister #: 11569

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 20
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: OB-5070
Sample ID: DCA - 011	Date: 4-6-94
Location: 24 VARIAN LANE (SCHETZER - and HILLER OUTSIDE)	
Sampling Technicians: K. HORN & J. RICHERT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 002

Certified Clean: yes X no ___ Date: 4/6/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 SCHETZER | HILLER

Pump Setting: Continuous X Intermittent ___

Time: Start 11.45 AM | 1620
Stop 1340 | 1821
Net 1.50

Elapsed Time: 1.85 2:04

Canister Information:

Canister #: 11359

initial vacuum pressure at lab(inches of Hg): -29.5/3
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 07.1
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-012	Date: 4-6-94
Location: 116 DEARCOP - HILLER - BASEMENT	
Sampling Technicians: K. HORN + J. RICKFT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 001

Certified Clean: yes X no ___ Date: 4/6/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 1420 Elapsed Time: 4.02
Stop 1820
Net _____

Canister Information:

Canister #: 11567

initial vacuum pressure at lab(inches of Hg): -29
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): -19
pressure when received at lab (psi): ___

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-013	Date: 4-6-94
Location: 116 DEARCOP-Hiller-LivingRoom	
Sampling Technicians: K. HORN + J. RICHERT	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 005

Certified Clean: yes X no___ Date: 4/6/94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 1420 Stop 1820 Net _____ Elapsed Time: ~~4.02~~ A 3,98

Canister Information:

Canister #: 1560

initial vacuum pressure at lab(inches of Hg): -29
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 19
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: Low VOC's

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-014	Date: 4-7-94
Location: 94 DEARCOP - BASEMENT	
Sampling Technicians: K HORN & J. RICHERT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 005

Certified Clean: yes X no ___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0840 Elapsed Time: 4.00
Stop 1240
Net _____

Canister Information:

Canister #: 11564

initial vacuum pressure at lab(inches of Hg): -29
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 17
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: med to High VOC's
FURNATURE STRIPPERS

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: 0B-5070
Sample ID: DCA-015	Date: 4-7-94
Location: 94 DEARCOP - LIVINGROOM	
Sampling Technicians: K. HORN & J. RICHEFT	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 001

Certified Clean: yes X no___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0840 Elapsed Time: 4.00
Stop 1240
Net _____

Canister Information:

Canister #: 11563

initial vacuum pressure at lab(inches of Hg): -29.5
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 11
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: 0B-5070
Sample ID: DCA-016	Date: 4-7-94
Location: 94 DEARCOP & 5 VARIAN LN.	BACKGROUND
Sampling Technicians: K-HORN & J. RICHERT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 002

Certified Clean: yes X no ___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 1045 / 1420
Stop 1235 / 1620
Net 350

Elapsed Time: 3.8

Canister Information:

Canister #: 11562

initial vacuum pressure at lab(inches of Hg): -30
initial vacuum pressure in field(inches of Hg): -VAC / 20 PSI
pressure after sampling (psi):
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: LOW VOC's

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEACON FARMS	Job #: OB-5070
Sample ID: DCA-017 ~~5 MARIAN~~	Date:
Location: 5 MARIAN Lane (BASEMENT)	
Sampling Technicians: K. HORN, J. RICKERT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 005

Certified Clean: yes X no ___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 1315 Elapsed Time: 3.94
Stop 1715
Net _____

Canister Information:

Canister #: 11561

initial vacuum pressure at lab(inches of Hg): -29"
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 22
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC's

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
[illegible] QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-018	Date: 4-7-94
Location: 5 VARIAN LN. LIVING ROOM	
Sampling Technicians: K. HORN + J. RICHOFT	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 001

Certified Clean: yes X no ___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: _____ Pump Setting: Continuous X Intermittent ___

Time: Start 1315
Stop 1708
Net 353

Elapsed Time: 3.88

Canister Information:

Canister #: 11559

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 32
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC's

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: 0B-5070
Sample ID: DCA-019	Date: 4-11-94
Location: 32 VARIAN LN. - BASEMENT - KRETCHMER	
Sampling Technicians: J. RICHOFTY K HORN	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 005

Certified Clean: yes X no___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ____

Time: Start 1310
Stop 1710
Net 4.HR

Elapsed Time: 3.20 4.00

Canister Information:

Canister #: 11560

initial vacuum pressure at lab(inches of Hg): -29
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 18
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOCs

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: ~~OB 5070R~~ DEARCOP FARM	Job #: OB-020
Sample ID: DCA-020	Date: 4-11-94
Location: 32 VARIAN LANE (KRETCHMER)	LIVING ROOM
Sampling Technicians: JIM RICHERTY KEITH HORN	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 001

Certified Clean: yes X no ___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 1310
Stop 1510
Net 4 HRS

Elapsed Time: 3.97

Canister Information:

Canister #: 11569

initial vacuum pressure at lab(inches of Hg): -29
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): -5
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC's

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: OB-5070
Sample ID: DCA-021	Date: 4-11-94
Location: 32 VARIAN LN. - KRETCHMER - OUTSIDE FRONT DOOR	
Sampling Technicians: JIM RICHOFF & KEITH HERR	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 002

Certified Clean: yes X no___ Date: 4-7-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ____

Time: Start 1325 Elapsed Time: 2.20
Stop 1705
Net 340

Canister Information:

Canister #: 11568

initial vacuum pressure at lab(inches of Hg): -30
initial vacuum pressure in field(inches of Hg): _____
pressure after sampling (psi): 20
pressure when received at lab (psi): _____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: 03-5070
Sample ID: DCA-022	Date: 4-14-94
Location: 14 VARIAN LANE (DRISCOLL) BASEMENT	
Sampling Technicians: J. RICHERT & J. HERMAN	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 005

Certified Clean: yes X no ___ Date: 4-8-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0815 Elapsed Time: 3.99
Stop 1215
Net 4HRS

Canister Information:

Canister #: 11563

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg): ___
pressure after sampling (psi): 20
pressure when received at lab (psi): ___

Analytical Information:

GC-MS mode: SCAN ___ Selective Ion Monitoring ___

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-023	Date: 4-14-94
Location: 14 VARIAN Lane (ORISCOLL) LIVING ROOM	
Sampling Technicians: J. RICHERT + J. HERMAN	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 001

Certified Clean: yes X no___ Date: 4-8-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0815 Elapsed Time: 4:00
Stop 1215
Net 4 HRS

Canister Information:

Canister #: 11561

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 20.5
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN _____ Selective Ion Monitoring _____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-024	Date: 4-14-94
Location: 14 VARIAN LANE (DRISCOLL) OUTSIDE	
Sampling Technicians: J. RICKERT & J. HERMAN	

Sampler Type: (SIS AGS-1/D) other_____ Sampler ID: 002

Certified Clean: yes X no___ Date: 4-11-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ____

Time: Start 0815 Elapsed Time: 4.00
Stop 1215
Net 4HRS

Canister Information:

Canister #: 11559

initial vacuum pressure at lab(inches of Hg): -25
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): -19
pressure when received at lab (psi): ____

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-025	Date: 4-15-94
Location: 206 DEARCOP DRIVE - BASEMENT	
Sampling Technicians: J. RICHERT + J. HERMAN	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 002

Certified Clean: yes X no ___ Date: 4-11-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0950
Stop 1348
Net 358

Elapsed Time: 3.95

Canister Information:

Canister #: 11564

initial vacuum pressure at lab(inches of Hg): -30
initial vacuum pressure in field(inches of Hg): ___
pressure after sampling (psi): 20
pressure when received at lab (psi): ___

Analytical Information:

GC-MS mode: SCAN ___ Selective Ion Monitoring ___

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARM	Job #: OB-5070
Sample ID: DCA-026	Date: 4-15-94
Location: 206 DEARCOP DR. - LIVINGROOM	
Sampling Technicians: J. RICHERT + J. HERMAN	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 001

Certified Clean: yes X no ___ Date: 4-11-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0950
Stop 1340
Net 350

Elapsed Time: 3.74

Canister Information:

Canister #: 11562

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 2.2
pressure when received at lab (psi): ___

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC's

Comments (ie. summary of weather conditions, activities, diagram, etc.):

ecology and environment, inc
AIR QUALITY SERVICES DIVISION
METHOD TO-14 AIR SAMPLING DATA SHEET

Job Name: DEARCOP FARMS	Job #: 0B-5070
Sample ID: DCA-027	Date: 4-15-94
Location: 206 DEARCOP DR. OUTSIDE	
Sampling Technicians: J. RICHERT & J. HERMAN	

Sampler Type: (SIS AGS-1/D) other _____ Sampler ID: 005

Certified Clean: yes X no ___ Date: 4-6-94 QA sample ID: _____

Calibration (ml/min):

pre cal	post cal
1)	1)
2)	2)
3)	3)
average:	average:
Average Flow Rate:	

NOTE: E&E's lab prefers that canisters be pressured to 20 psi. If the canister is evacuated to -30 "Hg then 14 liters of air will be required to reach 20 psi.

Duty Cycle Setting: 100 Pump Setting: Continuous X Intermittent ___

Time: Start 0950
Stop 1335
Net 345

Elapsed Time: 3.73

Canister Information:

Canister #: 11567

initial vacuum pressure at lab(inches of Hg): -28
initial vacuum pressure in field(inches of Hg):
pressure after sampling (psi): 20
pressure when received at lab (psi):

Analytical Information:

GC-MS mode: SCAN ____ Selective Ion Monitoring ____

Target Compounds/Expected Concentrations: LOW VOC'S

Comments (ie. summary of weather conditions, activities, diagram, etc.):

APPENDIX B

HOUSEHOLD CHEMICAL INVENTORY SHEETS

45 AVANTI

BASEMENT

Dektol 50 (Kodak) – p-methylaminophenol sulfate + hydroquinone
Developer D-76 (Kodak)
Hypo cleaning AGENT (Kodak)
Kodafix solution – thiosulfate (ammonium), sodium acetate, acetic acid, sodium bisulfate
HC 110 Developer – 2 aminoethanol
Indicator stop bath – acetic acid
Ektaflex Activator – potasium hydroxide
film cleaner – chloroethane
E-6 processing kit

TIDE, Fantastic, bleach, softner, top job, wahite

Spray enamels + paints

Kitchen

GLASS plus, pledge, top job

Bath

Cysol, tylex, comet, semi flush

93 decr cop

Basement –
mineral spirits, pet. distillates, methylene chloride, TCA, Toluol, Acetone, Toluene, Xylol, 3M super weather strip -08001, Hexane, latex paint, Glidden Chlorox, Ajax + Hamman soap, pyrethrins, N-octyl Bicycloheptene Dicarboximide.

Upstairs
Ammonium chloride, pyrethrins

94 DEARCOP

Brand	Class	Constituents
Rustoleum	spread enamel	
Rustoleum	spray enamel	
Deft	vinyl wood stain	
Color Tile	grout & tile cleaner	
Mobile	auto transmission fluid	
Duncan	ceramic sealer	
Loctite Corp Duro - Navy Jelly	rust dissolver	
Sears	undercoat	
Formby's	tung oil finish	
Nudeck	plastic roof cement	
Zip - Strip	stripper	methylene chloride cmc
Klean - Strip	Muriatic acid	
Strypeeze	stripper	petroleum distillates acetone, toluene methanol, MC
Kutzit	stripper	
Liquid aluminum	finish	Aluminum chrome Tol, Ace, MC Isopropyl alcohol
Snap	stripper	
Startex	lacquer thinner	
Astro shield	auto polish	
Martin's	Lo-ad-or thinner	
	latex paints	
Blue Ribbon	stove polish	
OOPS	latex paint remover	
Weldwood	cement waterproofer	
Permate	form-a-gasket	
3M	Safest stripper	
	Enamel paints	
Ross	liquid solder	

94 Dearcop

Benzomatic	Propane	
GM	Top engine cleaner	
	linseed oil	
Illinois bronze	Glass frosting	
Prestone	brake fluid	
Dekorators	enamal finish	Pet distill Xy lol
Henkel - Metylan	prime - [redacted]	
Bianey & Smith	gold artista finish	
Old English	furniture polish	
Sears	acrylic finish	
Gumout	Carb choke cleaner	
Sears	wallpaper remover	
	3-in 1-oil	
Mod podge	adhesive	
Permatex	spot putty & glaze	
Brasso	polish (metals)	pet distill ammonia
Kiwii	shoe polish	
	stains	
	Kerosene	

94 Dearcop.

Kitchen

Bissel	upholstery cleaner
Bissell	carpet cleaner
Hartz	flea/tick spray
Off	insect spray
Windex	window cleaner
	ammonia
	spic/span type
Brasso	metal cleaner
	oven cleaner

Bath

Liquid Plumber
Tilex
Spic span
Toilet cleaner

116 Dearcop

Basement

Paints + lacquers, Ammonia, DDT, paint thinner, laundry soap please, all, Comet,

Kitchen

Dish soap, Ammonia, pinesol, comet, hair spray, air freshener deodorant

Pesticides
Lawn
fuel oil
engine work

206 Dearcop Dr

Basement

	gasoline	
Testors	spread enamel model paints	
Testors	spray enamel model paint	
	paint marker	
	thinner	
Testors	modeling cement	toluol
Dow - Silastic 732 RTV	adhesive/sealant	
Galaxy	pipe joint compound	
	Latex spread paint	
Minwax	stain and polyurethane	
Mar-hyde	paint thinner	pet distillates
Turtle Wax - Black Chrome	bumper blackener	
Safety-Kleem - Spray Brake Cleaner - 619	brake cleaner	
Dow-Corning 732	caulk sealant	
Dap	acrylic caulk	
	spray paints	
Sheetrock	joint compound	
Red Devil	foam sealant	polymeric isocynate Hydrochlorofluoro carb
Chorox		Sodium hypochlorit
Rustoleum	wood preserver	
Wegman	bleach	
	fuel oil tank	
	antifreeze	

Lysol	disinfectant/deodorant spray
Scott's - Liquid Gold	wood cleaner/preserver

Kitchen | Bath

Pledge	Household cleaner
Liquid Miracle Grow	plant feeder
~~Engine~~	engine paint

18 NOVA Lane

BASEMENT

Acrylic Nail Powder - Lady Nail

NAil Liquid - Polyester Monomer, Methacrylic-ester, Isobuthl Di-Methyl P-Toluide, BHT, Acrylics

Acetone

Laquer thinner - hydrocarbon Solvent m-75

Nail Dryer - Butyl Acetate, Ethyl Acetate, Isopropyl Alcohol, Nitrocellulose, Dibutyl Phthalate, Polyvinyl Butyral, Benzophenone-1,

Nail Colors - Butyl Acetate, Toluene, Nitrocellulose, Formaldehyde, ethyl Acetate, Dibutyl Phthalate, iso-alcohol, phthalic Anhydride, butyl benzoic acid, ACRylAtes copolymer, Dibenzoylethmethane,

Ceramics - Petroleum Distillates, MAY CO - BRUSH-ON-GLAZE, 414 TAWNY Birch, DUNCAN BRUSH-ON-[illegible] AS953, Bisq-stain - OS 471, walnut - TS521

Paints - LATEX Vinyl acetate, propylene glycol,

stains - Petroleum distillates.

Bleach - Dynamo, Rug Cleaner (foam)

5 VARIETY Line

Basement

spray enamel, latex paint, pet. distillates, laundry soap
11 trichloroethane, perchlorethylene (spot remover) petroleum hydrocarbons
flea killer - methoxy 3.7 11-trimethyl, 2,4 dodecadienoate
phenol methyl carbamate, 2-? dichlorovinyl dimethyl phosphate

Kitchen

Tylex, pokmadine, clorox, Comet

14 Varian Lane

Kitchen

Pledge	Furniture polish
NOW	cleaner / [redacted] degreaser
Future	Acrylic shine
Castle	glass cleaner
Dem-Kote	dust mop treatment
Safety-Kleen	hand cleaner
	liquid glosser cleaner
Fantastic / 409	cleaner
Windex	glass cleaner
Easy-off	oven cleaner - not used

~~Basement~~

~~Latex paint~~

~~primer~~

~~auto paint~~

Basement

Mapa	Auto paint
Dap	glazing
	latex paint
TEC	ceramic tile adhesive
Min wax	wood filler
Rustoleum	spread enamel
USG	wallboard compound
Roundup	Grass / Weed killer
Aqua-mate	carpet cleaner
Foot locker	water proofer
Brasso	metal polish

Stainguard	static remover
Raid	insect fumigator
	propane cylinder
X-14	mildew remover
CDC-10	disinfectant
Soft scrub	tile cleaner
Drain care	drain opener
Datatainer	Photographic bleach
Datatainer	Photographic developer
1	Photographic stabilizer
Datatainer	Photographic fixer
Deep woods	insect repelant
Compa chem	holding tank deoderant
Tackel	

have not used

15L 1 hr 3.5 12" Hg
2 hrs 7 : 1-2 psi
3 hrs 10.5 : 9 psi
4 hrs 14 : 20 psi

24 Varian Lane

Kitchen

Ammonia, Palmolive soap, OFF (N,N diethyl-meta-toluamide, Pyrethrin, carpet shampoo (sodium lauryl sulfate, pledge, Comet, Raid (permethrin) piperonyl butoxide, 2-mercaptobenzothiazole, acetone (nail polish remover) sodium hypochlorite (Tilex)

Basement

Latex paint (Sears) charcoal lighter, stripeze (toluene, methylene chloride, acet. pet. distillates, laundry soap (ALL) chlorox

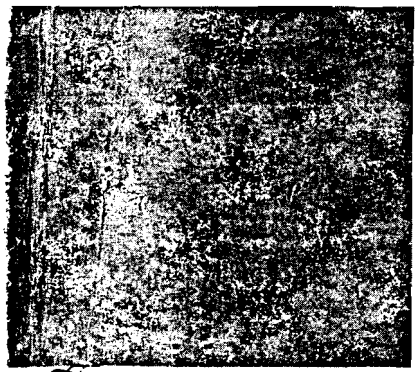
32 VARIAN Lane

B'sment
methylene chloride, latx paint, tetrahydrofuran
toluene, acetone, hydrocarbons, ammonia, palmolive, oven cleaner

Kitchen,
windex, cmt, Mr clean, dawn, comet, tile cleaner

APPENDIX C

FIELD LOGBOOK



ecology and environment, inc.

International Specialists in the Environment

Job Number OB-5070

DEARCOP FARM SITE

RESIDENTIAL AIR SAMPLING

E & E Job Number 0B-5070

Telephone Code Number

Site Name DEARCOP FARM

City/State TOWN OF GATES/MONROE COUNTY

TDD

PAN

SSID

Start / Finish Date 3-30-94 / 4-5-94

Book 1 of 1

E & E Emergency Response Center: (716) 684-8940
E & E Corporate Center: (716) 684-8060
MEDTOX Hotline: (501) 370-8263
E & E Safety Director (Home): (716) 655-1260

WED. 3-30-94 OB-5070 Jim Richert

0645 Jim Richert (J.R) of EyE DEPARTS Home TO EyE HQ.

0700 J.R ARRIVES AT EyE's ~~ASSA~~ HQ & MEETS KIRTH HORN (KH) AND MATT KIM (MK).

0715 EyE DEPARTS TO ASC & PICKS UP A TRIP BLANK WATER + 3 VOA'S (N/HCL)

0740 EyE DEPARTS TO SITE.
GOAL FOR TODAY IS TO collect A CONTROL AIR SAMPLE(S) FROM ONE HOME AWAY FROM THE SITE.

0855 EyE meets DAVE NAPIER OF NYS DEPT. of HEALTH (NYSDOH)

1000 EyE & NYSDOH ARRIVE AT THE HOME OF MR. & MRS. LISA RIZZO AT 45 AVANTI
WEATHER IS cool 36°F w/ LT. winds & LT. snow.
will collect 3 SEPERATE 4 HR long AIR SAMPLES FROM THIS RESIDENCE 1 FROM BASEMENT 1 FROM MAIN FLOOR and 1 FROM OUTSIDE IN BACKYARD.

1015 START TO collect MAIN FLOOR SAMPLE

1018 START TO collect BASEMENT SAMPLE

1025 START TO collect OUTDOOR SAMPLE

1028 DAVE CHIUSANO of NYSDEC ALBANY

1030 JOE ALBERTS OF MONROE CO

1035 JR. PHONES TONY BOGOLIN AT ASC + CONFIRMS THAT WE SHOULD PRE-PRESERVE VOA'S.

1040 MK. STOPPED SAMPLERS UPSTAIRS & OUTSIDE & RESET FROM A 100 TO 50 DUTY CYCLES.

1100 JR & KH collect 3 VOA'S FROM 1' DEEP SUMP IN NW corner OF BASEMENT FLOOR.

→ Richert

WED. 3-30-94 OB-5070 Jim Reichert

THE VOA'S WERE PRE-PRESERVED AT THE ASC THIS MORNING & / HCL. HOWEVER WE HAD MUCH DIFFICULTY FILLING BOTTLES UNTIL NO AIR BUBBLES WERE PRESENT. SOME OF ALL PRESERVATIVE ESCAPED FROM EACH BOTTLE. SAMPLE #= DCW-001. ALSO WILL SUBMIT A PRESERVED TRIP BLANK FOR VOC'S

1110 MK RESET DUTY CYCLES ON MAIN FLOOR FROM 50 TO 30 AND OUTSIDE FROM 50 TO 25.

1115 NYSDEC, NYSDOH, COUNTY DOH DEPART RESIDENCE. NOTE THAT DURING SAMPLING, THE MONROE COUNTY PURE WATERS UTILITY COMPANY WAS WORKING UPWIND (EAST) OF PROPERTY & 100 FEET AWAY WITH A BACKHOE BURYING OR BACKFILLING A LINE NEAR THEIR PUMP / METER HOUSE.

AT 1130 DH. CONDUCTED INVENTORY OF HOUSE - PRODUCTS STORED.

1210 E&E DEPARTS TO LUNCH.

1210 NYSDEC & NYSDOH RETURN

1310 E&E RETURNS TO LISUZZOS HOUSE & CHECKS ALL 3 AIR STRIPPERS - OK. ALSO LOOKS AT SUMP AGAIN - IS = 8" DEEP WITH ABOUT 5" OF WATER IN IT. BOTTOM IS LOOSE ROCKS, SUMP IS CEMENT LINED ON SIDES, HAS 2 RUSTED DRAIN PIPES EMPTYING INTO IT & IS COVERED WITH A WOODEN ROUND LID.

1352 M.K. STOPS OUTDOOR SAMPLE (DCA-001) AT 23 PSI

NOTE AT 1315 NYSDEC DEPARTS SITE.

Jim Reichert 3-30-94

WED 3-30-94 OB-5070 Jim Richert

1415 SAMPLE DCA-001 SHUT OFF AT 21PSI
ELAPSED TIME = 3.97 HRS.

1421 SAMPLE DCA-002 STOPS AFTER 4.00 ELAPSED
TIME & 21 PSI ENDING PRESSURE

1425 E&E & NYSDOH EXIT HOUSE

1430 E&E & NYSDOH DEPART FOR TODAY

1545 E&E delivers 3 AIR & 2 WATER SAMPLES
TO ASC.

1600. E&E ARRIVES AT HQ

Jim Richert 3-30-94

SAMPLE COLLECTION TABLE (1 OF)

SAMPLE #	DATE	TIME	MEDIA	LOCATION	COMMENTS
DCTB-001	3/30/94	0730	WATER	TRIP BLANK	DI FROM HSC
DCW-001		1100	WATER	SUMP	
DCA-001		1355	AIR	OUTSIDE	45 AVANTI - LISUZZO
DCA-002		1425	AIR	BASEMENT	"
DCA-003		1415	AIR	MAIN FLOOR	"
DCA-004	4-4-94	1235	AIR	BASEMENT	18 NOVA LANE
DCA-005		1235	AIR	Living Room	"
DCA-006		1713	AIR	BASEMENT	93 DEARCOP
DCA-007		1720	AIR	Living Room	"
DCA-008		1715	AIR	BACK PATIO	" UNDER B.BALL NET
DCTB-002		0800	WATER	TRIP BLANK	DI FROM ASC
DCW-002		1330	WATER	SUMP	SW BASEMENT CORNER
DCSG-001		1400	soil GAS	EAST OF HOUSE	9' NE OF LAMP POST
DCSG-002		1415		NORTH of HOUSE	18" N. OF HOUSE
DCSG-003		1430		west OF HOUSE	2' west OF HOUSE
DCSG-004		1445		~~DES~~ SOUTH of HOUSE	1' SOUTH OF HOUSE
DCA-009	4-6	1345	AIR	BASEMENT	24 VARIAN
DCA-010		1345	AIR	LIVINGROOM	24 VARIAN
DCA-011			AIR	BACKGROUND	24 VARIAN & 116 DEARCOP
DCW-003		1050	WATER	SUMP	24 VARIAN
DCTB-003		0800	WATER	TRIP BLANK	DI FROM ASC
DCSG-005		1035	AIR	SOUTH OF HOUSE	24 VARIAN
DCSG-006		1055		west OF HOUSE	
DCSG-007		1115		EAST OF HOUSE	
DCSG-008		~~1135~~ 1140		NORTH OF HOUSE	
DCSG-009		~~1510~~ 1520		west " "	116 DEARCOP
DCSG-010		1520		SOUTH " "	
DCSG-011		1535		EAST " "	
DCSG-012		1545		NORTH "	
DCA-012					BASEMENT
DCA-013					LIVING ROOM

2 sheets

MON 4-4-94 - OB-5070 Jim Richert

0600 JIM RICHERT (JR) and KIETH HORN (KH) meet AT E&E HQ.

0615 E&E moves TO LAB & PICKS UP 5 CLEAN AIR CANISTERS FOR TODAYS SAMPLING

0625 E&E departs LAB (ASC) TO SITE

0730 E&E ARRIVES IN TOWN OF GATES. GOAL FOR TODAY: collect AIR SAMPLES FROM TWO HOMES (2 PER HOME) and ONE BACKGROUND. FIRST HOUSE IS A BACKGROUND LOCATION. 2ND HOUSE will ALSO HAVE 4 SOIL GAS collected FROM THE YARD.

0743 E&E ARRIVES AT BACKGROUND LOCATION AT 18 NOVA Lane - RUTA Residence. Weather: cold (30°F) clear & calm High of 50-55°F.

0750 E&E ENTERS HOUSE & meets MR. & MRS RUTA.

0755 DAVE NAPIER OF N.YSDOH ARRIVES. E&E & MR. RUTA LOCATE

0810 E&E STARTS BASEMENT SAMPLE

0812 E&E STARTS LIVINGROOM SAMPLE. NOTE THAT MRS. RUTA HAS A IN-HOUSE BUSINESS OF NAIL POLISHING. "ROSE ANNS NAILS"

0820 K.H. & MR. RUTA conduct inventory of NAILPOLISH & OTHER HOUSEHOLD CHEMICALS USED.

0821 DAVE N. BRINGS IN A PID. & GETS 0.5 PPM ABOVE BACKGROUND IN NAIL PREP ROOM. SAME IN BACK (EAST ROOM) OF BASEMENT

0840 JR CHECKS UNITS & NOTICES THAT PRESSURE HAS NOT YET DROPPED. K.H. PHONES E&E MATT KIM. & ROTATES DUTY cycle BACK TO 100 & IT STARTS TO SAMPLE (LOOSE PRESSURE), will call START TIME 0845 -

J. Richert

MON 4-4-94 OB-5070 Jim Rickert

0854 PID NOW READS 0 ppm THROUGHOUT BASEMENT, may JUST BE Related TO TEMPERATURE OF UNIT. (WARM UP TIME)
NOTE. DAVE NAPIER OF NYSDOH SAID THAT since we ONLY HAVE ONE SAMPLE CANISTER FOR A BACKGROUND SAMPLE we will TAKE IT FROM THE 2ND HOUSE (Field sample) ONLY and NOT FROM THE Field and BACKGROUND HOMES AS originally PLANNED.
0940 DAVE NAPIER departs SAMPLE SITE
1235 EYE STOPS collecting DCA-004 & DCA-005 AT 20 & 22 PSI Respectively.
1250 EYE DEPARTS IB NOVA TO 93 DEARCOP MOSTYN Residence
1253 EYE ARRIVES AT MOSTYN HOME AT 93 DEARCOP. (ADJACENT TO site) NOONE HOME YET.
1255 CORRECTION- MRS. MOSTYN is HOME & gets Feeding TOUR and BABY when we ARRIVED
1300 EYE ENTER HOME & BEGIN TO SET UP 3 UNITS FOR 3 SAMPLES.
DCA-006, BASEMENT, DCA-007 (LIVING ROOM)
DCA-008 - BACK PATIO.
1320 All 3 AIR SAMPLES BEGIN collection USING PROGRAMMED PUMP. BEGINNING PRESSURES = -28, -28, -30 "Hg.
1330 JR collect 3 VOA's OF SUMP WATER PRE-PRESERVED w/ HCl. SUMP IS AT at SW corner OF BASEMENT. 2' DEEP - w/ 6" OF WATER IN IT.
1420 EYE collects 1ST OF 4 SOIL GAS SAMPLES (DCSG-001 FROM EAST SIDE OF HOUSE (FRONT) 9' NE OF Light POST, NEAR BUSHES
J. Rickert

MON 4-4-94 OB 50-70 Jim Richart

1415 E&E collects DCSG-002 soil GAS SAMPLE FROM NORTH side of House 18" FROM HOUSE, centered E&W. E&E is collecting soil gas samples using TEDLAR BAGS Filled By Negetive PRESSURE CANISTER which is EVAC. By AN ELECTRIC PUMP. SOIL GAS PROBS ARE DRIVEN using A SLAM BAR TO PUSH A ~~5/8~~ PILOT HOLE THEN PUSHED & HAMMERED TO DESIRED DEPTH. 001 & 002 were FROM 5 feet DEEP.

1430 E&E collects DCSG-003 FROM ~~NORTH~~ WEST side of House ~~(2' NORTH & 1.5' W~~ (2' WEST of House & 1.5' SOUTH of BROWN Bilco type BASEMENT DOOR.)

1445 E&E collects DCSG-004 FROM SOUTH side of House 1' FROM FOUNDATION - centered E&W. 5' DEPTH AS ALL.

1450 DAVE NAPIER OF NYSDOH ARRIVES ON SITE

1520 MR. MOSTYN ARRIVES Home

1525 K.H. PERFORMS SURVEY OF HOUSEHOLD CHEMICALS USED.

1550 DAVE NAPIER DEPARTS FOR TODAY.

NOTE: WIND DIRECTION IS FROM SOUTH/SOUTHWEST.

1713 STOP DCA-006

1715 STOP DCA-008

1720 DCA-007 STOPS.

1725 E&E DEPARTS SITE FOR TODAY

1830 E&E delivers SAMPLES TO ASC.

1845 E&E ARRIVES AT HQ.

1902 JR ARRIVES Home Jim Richart

WED. 4-6-94 OB-5070 Jim Richert

0700 Jim RICHERT(JR) DEPARTS HOME TO EE&E HQ.

0721 J.R. ARRIVES AT HQ and meets KEITH HERR(KH)

0730 EE&E DEPARTS TO ASC TO PICK UP AIR CANISTERS.

0735 EE&E ARRIVES AT ASC. CANISTERS NOT YET READY

0750 EE&E DEPARTS ASC W/5 CLEAN CANISTERS

0900 EE&E ARRIVES AT THE HOME OF MR+MRS SCHETZER OF 24 MARIAN LANE.
GOAL FOR TODAY IS TO COLLECT INDOOR AIR SAMPLES FROM TWO HOMES Along with SOIL GAS(G) FROM EACH PROPERTY. ALSO WILL COLLECT a WATER SAMPLE FROM SUMPS IF WATER IS PRESENT. AND 1 TRIP BLANK WATER.

0910 EE&E PHONE TOM SIGNER OF EE&E TO CONFIRM PLAN FOR TODAY - SINCE IT IS RAINING STEADILY. T. SIGNER SAID TO TRY TO COLLECT ALL SAMPLES AS PLANNED. ALSO HE will send someone out TO deliver MORE TEDLAR BAGS By 1400 HRS.

0945 EE&E STARTS TO COLLECT BASEMENT + LIVING ROOM SAMPLE (DCA-009, + DCA-010) we will collect one BACKGROUND SAMPLE Today (2 HRS FROM EACH OF THE 2 HOUSES) DCA-011.

1000 JOE ALBERT of COUNTY HEALTH DEPT. ARRIVES ON SITE.

1020 JOE ALBERT DEPARTS SITE

1035 K.H. collects SOIL GAS SAMPLE DCS6-005 FROM SOUTH SIDE OF HOUSE.

1050 J.R. collects 3 VOA's OF WATER FROM BASEMENT SUMP, LOCATED IN NE CORNER OF BASEMENT. WAS ACTIVELY FILLING + PERIODICALLY being PUMPED out.
J Richert

WED. 4-6-94 OB-50?? Jim Reichert

NOTE: BASEMENT WALL HAS A CRACK ON THE NORTH SIDE, VERTICLE FROM FLOOR TO ≈ 3'-4' UP. WHICH APPEARS TO BE ALLOWING WATER IN WHICH FLOWS ALONG THE CEMENT FLOOR TO THE SUMP. ALSO THE FLOOR HAS A FEW CRACKS IN IT.

1055 K.H. COLLECTS SOIL GAS SAMPLE FROM WEST SIDE OF HOUSE DCSG-006

1115 K.H. COLLECTS SOIL GAS SAMPLE DCSG-007 FROM ~~SOUTH~~ OR EAST SIDE OF 24 VARIAN HOUSE

1130 KHERN COLLECTS SOIL GAS #DCSG-0008 FROM NORTH SIDE OF HOUSE. 5' AS WAS S+E. WEST WAS ONLY 3' DEEP DUE TO TREE ROOTS. ALL SAMPLES FROM 1' TO 2' FROM HOUSE.

1145 JR STARTS OUTSIDE (BACKGROUND SAMPLE) DCA-011 UNDER SWING SET IN BACK YARD.

NOTE: AT ≈ 1125 DAVE NAPIER OF NYSDOH DEPARTS SITE, HE ARRIVED AT ABOUT 1105

1200 K.H. CONDUCTS INVENTORY OF ~~HOUSE~~ ~~House~~ Household CHEMICALS

1215 DAVE CHIUSANO OF ALBANY DEC ARRIVES AT 24 VARIAN.

1230 E&E DEPARTS TO LUNCH

1320 E&E RETURNS TO 24 VARIAN,

1340 E&E STOPS DCA-011 AT 0 PSI

1345 DCA-009 & 010 STOP. AT 18 & 20 PSI

1350 E&E DEPARTS 24 VARIAN

1355 E&E NYSDEC ARRIVE AT 116 DEANCOP. HILLER RESIDENCE

1400 JOHN HERMAN OF E&E DELIVERS MORE TEDLAR BAGS FOR SOIL GAS.

1420 DCA-012 & 013 (BASEMENT & LIVING ROOM) START SAMPLING

J. Reichert

WED. 4-6-94 OB-5070 Jim Rechert

1430 JR collects sump water sample DCW-004. 3 PRESERVED VOA'S HCL TO ≤2 PH.

1510 JR+KH collect soil GAS DCSG-009 FROM 116 DEARCOP. ~~SOUTH SIDE~~ WEST SIDE OF HOUSE 4.5' DEPTH 10' WEST OF HOUSE.

1520 JR+KH collect DCSG-010 FROM SOUTH SIDE OF 116 DEARCOP. 5' FROM HOUSE & 4.5' DEEP.

1535 JR+KH collect SOIL GAS DCSG-011 FROM 2 FEET EAST OF HOUSE (116 DEARCOP) FROM 4.5' DEPTH.

1545 J.R+K.H collect SOIL GAS DCSG-012 FROM 2' NORTH OF HOUSE (116 DEARCOP) FROM 4' TO 4.5' DEPTH.

1610 DAVE C. OF NYSDEC DEPARTS SITE FOR TODAY

1620 K.H. STARTS 2ND HALF OF BACKGROUND SAMPLE

1820 JR+KH STOP DCA-012+013.

1824 JR+KH STOP DCA-011

1825 PACK UP + SAY GOODBYE TO MR. HILLER

1833 EVE DEPARTS SITE.

1945 EVE ARRIVES AT ASC & DROPS OFF TODAYS SAMPLES + PICKS UP 10 MORE TEDLAR BAGS.

2000 EVE DEPARTS ASC. TO HQ.

2010 JR ARRIVES HOME

Jim Rechert

THUR. 4-7-94, OB-5070 Jim Richert

0630 JIM RICHERT (JE) AND KEITH HORNAK OF E&E meet AT E&E'S LAB (ASC) AND PICK UP 3 AIR CANISTERS (2 MORE MUST Be delivered TO site LATER) FOR Today's INDOOR AIR SAMPLING.

0640 E&E DEPARTS ASC TO SITE.

Weather: Light SNOW, 29°F., 4" TO 6" OF SNOW FELL LAST NIGHT.

GOAL FOR TODAY: SAMPLE 2 HOMES OF INDOOR AIR, SOIL GAS, + SUMP.

0800 E&E ARRIVES IN TOWN OF GATES & R.H. PHONES E&E HQ. & LEAVES MESSAGE FOR T. SIENER TO HAVE 2 CANISTERS SENT OUT BY 12:30 PM.

0817 E&E ARRIVES AT 94 DEARCOP DRIVE THE MARKHAM & ENTERS HOME.

0840 START DCA-014 (BASEMENT) and DCA-015 (Living room)

0900 DAVE CHIUSANO OF NYSDEC ARRIVES.

0915 J.R. collects sump sample DCW-004 FROM 94 DEARCOP. CENTRAL PORTION OF NORTH WALL

0935 E&E DEPARTS TO BUY WARM WEATHER GLOVES FOR OUTDOOR SOIL GAS WORK TODAY. 6" OF SNOW ACCUMULATED

1010 J.R. + K.H. collect DCSG-013 FROM 8' WEST OF HOUSE. + 4.5' DEPTH.

1020 E&E collects DCSG-014 FROM 4' DEPTH AT 2' NORTH OF HOUSE

1030 E&E collects DCSG-015 FROM 4.0' DEEP, AT 1' EAST OF HOUSE (5' S OF NE CORNER)

1035 E&E collects DCSG-016 FROM 2' SOUTH OF HOUSE AT A 4.0' DEPTH.

1045 K.H. START > DCA-016 - BASEMENT IN YARD OF 94 DEARCOP.

Jim Richert

SAMPLE COLLECTION TABLE (2 of)

SAMPLE #	DATE	TIME	MEDIA	LOCATION	COMMENTS
CA-014	4-7-94		AIR	BASEMENT	94 DCARCOP
DCA-015		1240	AIR	LIVING ROOM	"
DCA-016		1240	AIR	BACKGROUND	"
DCW-004		0915	WATER	SUMP (N)	"
DCTB-004		0800	WATER	TRIP BLANK	DI FROM ASC
DCSG-013		1010	SOIL GAS	8' WEST OF HOUSE	94 DCARCOP
DCSG-014		1020	"	2' NORTH	"
DCSG-015		1030	"	EAST	"
DCSG-016		1035	"	SOUTH	"
DCA-017		~~1240~~ 1715	AIR	BASEMENT	5 VARIAN
DCA-018		~~1240~~ 1708	AIR	LIVING ROOM	5 VARIAN
DCSG-017		1340	SOIL GAS	3' EAST	"
DCSG-018		1420	"	1' SOUTH	"
DCSG-019		1430	"	1' WEST	"
DCSG-020		1440	"	2' NORTH	"
DCW-005		1400	WATER	SUMP.	"
DCTB-005	4-11-94	0800	WATER	TRIP BLANK	DI FROM ASC
DCMW-9S		1135	WATER	MW-9S	GROUNDWATER
DCSG-021		1115	AIR	SW OF 9S	—
DCSG-022		1130	AIR	~~SW~~ NE OF 9S	—
DCA-019		1710	AIR	BASEMENT	32 VARIAN CA
DCA-020		1710	AIR	LIVING ROOM	"
DCA-021		1705	AIR	OUTSIDE	"
DCSG-023		1345			" WEST
DCSG-024		1400			" SOUTH
DCSG-025		1415			" NORTH
DCSG-026		1435			" EAST
DCW-006		1400	WATER	SUMP.	" NE CORNER SUMP ACTIVE

THUR. 4-7-94 08-50.20 Jim Richert
1050 J. ALBERT OF COUNTY DOH ARRIVES ON SITE
1115 J. ALBERT DEPARTS SITE.
1145 EYE DEPARTS TO LUNCH.
1230 EYE & NYSDEC D. CHIUSANO RETURN TO 94 DEARCOP.
1235 K.H. STARTS OF BACKGROUND SAMPLE AT -1" Hg. (2 HRS)
1236 T. SIENER & J. HERMAN OF EYE ARRIVE w/ 2 AIR CANISTERS.
1240 DCA-014 + 015 STOP SAMPLING AFTER 4 HRS.
1300 T. SIENER DEPARTS SITE WITH DCA-014 + DCA-015 AIRSAMPLES, HE WILL DELIVER TO ASC. USING A SEPERATE C-O-C FORM.
1305 EYE (w/NYSDEC) ARRIVE AT 5 VARIAN. LANE. (ZUDAK Res.)
1315 EYE STARTS DCA-017 BASEMENT + DCA-018 LIVING ROOM.
1340 D. CHIUSANO DEPARTS SITE FOR TODAY
1340 K.H. collects DCSG-017 FROM EAST SIDE OF HOUSE (3') AT A DEPTH OF 4.0' BGS.
1400 J.R. collects WATER SAMPLE FROM SUMP. LOCATED IN CENTER OF WEST WALL AT 5 VARIAN LANE. - ACTIVELY FILLING & PUMPING. PRE-PRESERVED w/ HCL
1420 J.R. STARTS 2'ND ½ OF BACKGROUND SAMPLE DCA-016
1420 JOHN HERMAN (JH) & KH collect DCSG-018 FROM SOUTH SIDE OF HOUSE 1' FROM HOUSE & 3' W/E WOODEN GATE, 5' DEEP.
1430 JH collects DCSG-019 FROM WEST SIDE (1') OF HOUSE 5' DEEP.
1440 J.H. collects DCSG-020 FROM 2' N OF DRIVEWAY.
Jim Richert

THURS. 4-7-94 OB-5070 Jim Reichert
1500 J.H. conducts household chemical survey at 94 Dehecop Drive.
1530 K.H. does same at 5 Varital
1620 Background sample DCA-016 stop after 2 more hours. (4 total) 29 PSI
1708 JR + K.H stop sample # DCA-018 at 20 PSI 3.88 Elapsed time
1715 KH stops DCA-017 at 22 PSI
1720 E+E departs site for today.
1840 E+E arrives at ASC + delivers samples
1902 J.R. arrives home

Jim Reichert 4-7-94

MON 4-11-94 OB-5070 J. Richert

0630 Jim RICHERT (JR) + Keith HORN (KH) of EE meet AT LAB (ASC) TO PICK UP AIR (3) CANISTERS FOR TODAYS SAMPLING

0640 EE + KH's TO SITE

0810 EE ARRIVES ON SITE.

WEATHER: SUNNY + CALM 37°F.

HIGH 55°F.

GOALS FOR TODAY:

① GET A complete ROUND of WATER LEVELS FROM MONITORING WELLS.

② PURGE + SAMPLE WELL (MW-9S AND TAKE 2 SOIL GAS NEAR IT.

③ SAMPLE. 1 MORE HOUSE.

Well#	Time	WATER LEVEL (TOIC)	WATER LEVEL (BOTTOM)	COMMENTS
MW-10D	0825	39.89	40.08	SMELL OF GAS
MW-10S	0827	8.90	9.18	
MW-2D	0832	40.13	40.55	SLIGHT GAS SMELL
DR-2	0834	(12.32) ↓		
MW-9S	0838	15.66	15.88	TD = 30.76 TOIC
MW-9D	0844	38.69	38.75	GAS SMELL
CANAL	1015	14.14		FROM PAINT MARK 38.10 = RAIL, 23.96 = RAIL TO PAINT
MW-5D	0900	25.72	NA	
MW-5S	1034	12.31		TIGHT CAP OPENED 0705
MW-4S	1030	7.51	NA	TIGHT CAP OPENED 0910
MW-1D	09	33.64	33.74	
DR-1	0918	33.77	34.37	
MW-8S	0943	30.00	NA-	TIGHT CAP Removed 0925
MW-7S	0933	21.02	FLUSH	RUSTY FILM RESIDUE
MW-3D	0953	38.25	38.40	
MW-6D	1000	44.88	45.04	
DR-3	1008	33.29	34.71	INNER IS CARBON STEEL
MW-6S	1818	26.18	26.44	

1035 EE FINISHED MEASURING WATER LEVELS.

2P

MON 4-11-94 OB-5070 J. Reichert

1040 EYE Buys distilled water for decon + ice for samples.

1055 EYE ARRIVES AT well MW-9S & PREPARES TO SAMPLE FOR VOA's & collect 2 SOIL GAS samples will EVACUATE 2.46x3 = 7.38 GALLONS OR MORE PRIOR TO SAMPLE COLLECTION

1115 KH collects DCSG-021 FROM 2.5' SW OF well MW-9S FROM 5' DEPTH

1123 JR FINISHED PURGING 8 GALLONS FROM MW-9S using dedicated DISPOSABLE BAILER.

1130 KH collects soil gas DCSG-022 FROM 2.5' NE OF well MW-9S

1135 JR & KH collect water sample DCMW-9S FROM well MW-9S Filled 3 (40ML) BOTTLES FOR VOC ANALYSIS - PRESERVED w/ HCL TO PH <2. NOTE. DCSG-022 was from 4 feet BGS. KH. decon soil gas equip. w/ DISTILLED WATER & ALCONOX SOAP BEFORE EACH sample & AFTER second sample.

1155 EYE LEAVES SITE GATES & DEPARTS SITE.

1258 EYE ARRIVES AT 32 VARIAN LANE, (KRETCHMER RESIDENCE)

1310 EYE STARTS 3 SEPERATE (4 HOUR) SAMPLES. DCA-019 - BASEMENT, DCA-020 - LIVING ROOM and DCA-021 - OUTSIDE FRONT PORCH.

1345 KH. collects DCSG-023 FROM 2' WEST OF FRONT PORCH 3.5' DEPTH

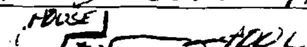
1400 KH. collects SOIL GAS SAMPLE DCSG-024 FROM 5' DEPTH AT 2' SOUTH OF HOUSE J. Reichert

MON 4-11-94 OB-5070 Jim Richert

1400 JR collects WATER sample FROM Pump in NE CORNER of BASEMENT, ACTIVELY Filling & Being PUMPED. NOTE BASEMENT WINDOW IS OFF & HAS BEEN FOR AT LEAST A DAY. (EAST SIDE WINDOW)

1415 JR & K.H. COLLECTS DCSG-0025 FROM 4' DEEP AT 1.5' NORTH OF HOUSE.

1435 JR COLLECTS SOIL GAS SAMPLE DCSG-026 FROM 4' DEEP & 2' EAST + 3' SOUTH OF HOUSE INSIDE CORNER ↑



1620 K.H. conducts INVENTORY OF HOUSEHOLD CHEMICALS USED.

1705 K.H. STOPS DCA-021 at 20 PSI

1710 KH. STOPS DCA-020 AT 25 PSI

1710 J.R. STOPS DCA-019 AT 18 PSI

1718 E&E PACKS UP & DEPARTS FOR HOME.

1840 E&E delivers samples AT ASC

1900 JR ARRIVES HOME.

Jim Richert 4-12-94

THURS 4-14-94 OB-5070 Jim Richert

0630 E&E (Jim Richert JR and John Hermawan JH) meet at the lab (ASC) pick up 3 air canisters for todays sampling

0755 E&E arrives at 14 Varian Lane the Driscoll Residence.

Goal for today: collect 3 air samples (canisters) from Driscoll home with 4 soil gas and 1 water from sump.

Weather: overcast 45°F, High 60's

0815 E&E starts all 3 air samples for 4 hours.

DCA-022 - Basement

DCA-023 - Living Room

DCA-024 - Outside (Backyard)

0830 J.H. conducts survey of household chemicals

Sample Table

SAMPLE #	DATE	TIME	MEDIA	LOCATION	COMMENTS
DCA-022	4-14-94		Air	14 Varian	Basement
DCA-023					Living Room
DCA-024					Outside
DCSG-027		0955			West 3.5' Deep
DCSG-028		1010			South - 5' Deep
DCSG-029		1025			East - 4' Deep
DCSG-030		1040			North - 4' Deep
DCW-007		0930	water		Sump NE corner
DCTB-006		0900	water	Trip Blank	
DCW-008	4-15-94	0945	water	sump	North side
DCTB-007		0900	"	Trip Blank	
DCSG-031		1100	Air	206 Dearborn	W. 4' Deep
DCSG-032		1120	"		S. 4' Deep
DCSG-033		1225	"		E. 5' "
DCSG-034		1240	"		N 5' Deep
DCSG-035		1300	"		SE - 4' Deep
DCA-025		1348	"		Basement
DCA-026		1340	"		Living Room
DCA-027		1395	"		Outside

THURS. 4-14-94 OB-5032 Jim Reichert

0900 EYE departs to store to buy misc. sampling supplies.

0920 EYE returns with supplies.

0920 EYE collects water sample from sump. located in NE corner of basement. 3 VOA'S for VOC analysis.

0955 EYE collects soil gas DCSG-027 from 3.5' depth at 3' west of house north of steps by ≈ 3'

1010 EYE collects DCSG-028 from 2' south of 14 Varian Ln. depth of 5' BGS

1025 EYE collects soil gas DCSG-029 from 4' east of house (4'S of steps) at 4' depth

1040 EYE collects DCSG-030 from 4' deep at 3' north of attached garage

1215 All 3 air samples stop.

1225 EYE packs up to departs site. Lunch

1305 EYE departs Gates to ASC

1410 EYE delivers samples at ASC

1430 EYE departs ASC.

1445 JR. arrives home.

Jim Reichert

FRI 4-15-94 OB-5070 Jim Rickert

0800 E+E MEETS AT LAB. JIM RICKERT (JR) AND JOHN HERMAN (JH)

0815 E+E DEPART TO SITE

0935 E+E ARRIVES AT 206 SEARCH DRIVE THE DRAGO RESIDENCE.

GOAL FOR TODAY: COLLECT 3 AIR CANISTER SAMPLES (BASEMENT, LIVINGROOM & OUTSIDE) AS WELL AS 5 SOIL GAS SAMPLES N, E, W, & S & ONE FROM SWING SET AREA PER REQUEST OF NYSDOH DAVE NAPIER & NYSDEC DAVE CHISHOLM VIA D.N. ALSO A WATER SAMPLE OF THE SUMP WILL BE COLLECTED FOR VOC's AND ACCOMPANIED WITH A TRIP BLANK.

0938 DAVE NAPIER (DN) OF NYSDOH ARRIVES ON SITE.

~~0950~~ ALL 3 OF WEATHER: SUNNY & 56°F, HIGH MID 20's

0950 ALL 3 AIR SAMPLES START FOR 4 HOUR TEST.

NOTE THAT DUE TO THE NICE WEATHER, SOME WINDOWS WERE OPEN IN THE HOUSE WHEN WE ARRIVED. D.N. ASKED TO HAVE THEM CLOSED FOR THE DURATION OF OUR SAMPLING, THIS WAS DONE BY MRS. DRAGO.

1045 JR COLLECTS 3 VOA's FROM SUMP AT ~~EAST~~ SIDE OF BASEMENT. VERY ACTIVELY FILLING

1100 E+E collects soil GAS DCSG-031 FROM 5' WEST OF HOUSE. 4' DEEP

1130 E+E collects SOIL GAS DCSG-032 FROM 4' DEEP FROM

22

FRI. 4-15-94 OB-50X J. Rickert
3' SOUTH OF HOUSE ± 5' WEST OF
ENTRANCE CONCRETE SLAB.
NOTE. WE PULLED UP FROM 5 DEEP
DUE TO GROUNDWATER
1225 AFTER MUCH DELAY TO DISMANTLE
AIR PUMP TO CLEAN OUT MUD-
WATER EYE COLLECTS SOIL GAS
DCSG-033 FROM 2' EAST OF HOUSE
5' DEPTH. NTE D.N. DEPARTED
AT DEC
1240 EYE COLLECTS SOIL GAS # DCSG-034
FROM 3' NORTH OF CENTER OF HOUSE
FROM 5' DEPTH.
1300 EYE COLLECTS DCSG-035 FROM
SE ~~CORNER~~ OF HOUSE - 6.5' NORTH +
2.5' EAST OF HUGE MAPLE TREE
AND 20' SSW OF BOREHOLE LOCATION.
1335 EYE STOPS OUTSIDE AIR SAMPLE
DCA-027 AT 20 PSI
1340 EYE STOPS LIVINGROOM AIR SAMPLE
AT 22 PSI. DCA-026
1348 EYE STOPS DCA-025 (BASEMENT)
AT 20 PSI
1355 EYE DEPARTS SITE TO CONCH
1430 EYE DEPARTS GATES
1530 EYE ARRIVES IN BUFFALO
& DELIVERS SAMPLES &
DEMOS.
1750 JR ARRIVES HOME

APPENDIX D

ANALYTICAL DATA

TEST CODE :WPURGH1 JOB NUMBER :9400.596
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-03798 MATRIX: WATER
SAMPLE ID CLIENT: DCW-001

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	2.9		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	1.8		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.596
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-03799 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-001

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	3.7		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.596
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
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A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.596

	E&E Lab. No. 94-	3800
Date Analyzed:		04/05/94
Compound	Sample Identity	DCA001
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		<5.0
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Present below stated quantitation limit.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.596

	E & E Lab. No. 94-	3800
	Analysis Date	04/05/94
Compound	Sample Identity	DCA001
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.596

	E&E Lab. No. 94-	3801
Date Analyzed:		04/05/94
Compound	Sample Identity	DCA002
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		3.3 J
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		7.1
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.5 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		2.4 J
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		8.2
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		2.4 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		1.1 J
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Present below stated quantitation limit.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.596

	E & E Lab. No. 94-	3801
	Analysis Date	04/05/94
Compound	Sample Identity	DCA002
Pentane Isomer (2.29)		3.1 J
Unknown Alcohol (3.86)		9.4 J
Unknown (22.95)		16 J
Terpene Isomer (24.03)		4.4 J
Unknown (26.41)		6.3 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.596

E&E Lab. No. 94-	3802
Date Analyzed:	04/05/94
Compound / Sample Identity	DCA003
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	4.3 J
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	6.7
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	1.4 J
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	2.2 J
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	6.7
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	1.7 J
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	0.8 J
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Present below stated quantitation limit.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.596

	E & E Lab. No. 94-	3802
	Analysis Date	04/05/94
Compound	Sample Identity	DCA003
Pentane Isomer (2.31)		1.9 J
Unknown Alcohol (3.89)		29 J
n-Butanol (12.84)		1.8 J
Unknown (22.94)		27 J
Unknown Hydrocarbon (24.97)		2.4 J
Unknown (26.41)		11 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.596

E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/05/94
Compound	
Associated Samples:	DCA001, DCA002, DCA003
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Present below stated quantitation limit.

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.596

E & E Lab. No. 94-	VBLKA1
Analysis Date	04/05/94

Compound	Sample Identity
NONE	

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.659

Dilution Factor: 5.0	E&E Lab. No. 94-	4208
Date Analyzed:		04/08/94
Compound	Sample Identity	DCA014
Dichlorodifluoromethane		<25
Chloromethane		<25
1,2-Dichlorotetrafluoroethane		<25
Bromomethane		<25
Vinyl Chloride		<25
Chloroethane		<25
Trichlorofluoromethane		<25
1,1,2-Trichlorotrifluroethane		<25
Methylene Chloride		130
1,1-Dichloroethene		<25
1,1-Dichloroethane		<25
cis-1,2-Dichloroethene		<25
Chloroform		<25
1,2-Dichloroethane		<25
1,1,1-Trichloroethane		<25
Carbon Tetrachloride		<25
1,2-Dichloropropane		<25
cis-1,3-Dichloropropene		<25
Trichloroethene		<25
1,1,2-Trichloroethane		<25
Benzene		<25
trans-1,3-Dichloropropene		<25
1,2-Dibromoethane		<25
Tetrachloroethene		<25
1,1,2,2-Tetrachloroethane		<25
Toluene		160
Chlorobenzene		<25
Ethylbenzene		<25
Xylene (total)		<25
Styrene		<25
1,3,5-Trimethylbenzene		<25
1,2,4-Trimethylbenzene		<25
1,3-Dichlorobenzene		<25
1,4-Dichlorobenzene		<25
Benzyl Chloride		<25
1,2-Dichlorobenzene		<25
1,2,4-Trichlorobenzene		<25
Hexachlorobutadiene		<25

J = Present below stated quantitation limit.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.659

	E & E Lab. No. 94-	4208
	Analysis Date	04/08/94
Compound	Sample Identity	DCA014
Acetone (4.10)		46 J
Unknown Hydrocarbon (22.99)		11 J
Unknown Hydrocarbon (24.02)		12 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.659

Dilution Factor: 5.0	E&E Lab. No. 94-	4209
Date Analyzed:		04/08/94
Compound	Sample Identity	DCA015
Dichlorodifluoromethane		<25
Chloromethane		<25
1,2-Dichlorotetrafluoroethane		<25
Bromomethane		<25
Vinyl Chloride		<25
Chloroethane		<25
Trichlorofluoromethane		<25
1,1,2-Trichlorotrifluroethane		<25
Methylene Chloride		76
1,1-Dichloroethene		<25
1,1-Dichloroethane		<25
cis-1,2-Dichloroethene		<25
Chloroform		<25
1,2-Dichloroethane		<25
1,1,1-Trichloroethane		<25
Carbon Tetrachloride		<25
1,2-Dichloropropane		<25
cis-1,3-Dichloropropene		<25
Trichloroethene		<25
1,1,2-Trichloroethane		<25
Benzene		<25
trans-1,3-Dichloropropene		<25
1,2-Dibromoethane		<25
Tetrachloroethene		<25
1,1,2,2-Tetrachloroethane		<25
Toluene		150
Chlorobenzene		<25
Ethylbenzene		<25
Xylene (total)		8.7 J
Styrene		<25
1,3,5-Trimethylbenzene		<25
1,2,4-Trimethylbenzene		<25
1,3-Dichlorobenzene		<25
1,4-Dichlorobenzene		<25
Benzyl Chloride		<25
1,2-Dichlorobenzene		<25
1,2,4-Trichlorobenzene		<25
Hexachlorobutadiene		<25

J = Present below stated quantitation limit.

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.659

	E & E Lab. No. 94-	4209	
	Analysis Date	04/08/94	
Compound	Sample Identity	DCA015	
Unknown alcohol (3.87)		16	J
Unknown Hydrocarbon (22.99)		15	J
Unknown Terpene (24.03)		9.2	J
Unknown Hydrocarbon (25.40)		11	J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.659

	E&E Lab. No. 94- VBLKA1
Date Analyzed:	04/08/94
Compound	Associated Samples: DCA014, DCA015
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Present below stated quantitation limit.

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.659

	E & E Lab. No. 94-	VBLKA1
	Analysis Date	04/08/94
Compound	Sample Identity	
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

TEST CODE :WPURGH1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : E-94-03984 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-002

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	23		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	7.8	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-03985 MATRIX: WATER
SAMPLE ID CLIENT: DCW-002

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	5.2	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	1.6		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.3		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :ABTX 1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : E E-94-03986 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-001

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	ND		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-03987 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-002

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	ND		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : E-94-03988 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-003

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	ND		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-03989 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-004

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	ND		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.624
ELAP ID : 10486

Ecology and Environment, Inc
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
METHOD BLANK : METHOD BLANK MATRIX: AIR

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	ND		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.624

Compound	E&E Lab. No. 94-	
Date Analyzed:	3990	
	04/05/94	
	Sample Identity	DCA004
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		1.6 J
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.2 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		1.4 J
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		5.9
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		2.7 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		1.3 J
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

	E & E Lab. No. 94-	3990	
	Analysis Date	04/05/94	
Compound	Sample Identity	DCA004	
Bromochlorodifluoromethane (1.57)		50	J
Unknown Alcohol (3.82)		11	J
Acetone (4.14)		80	J
1-Butanol (12.82)		3.0	J
Methyl methacrylate (13.27)		3.6	J
Ethyl methacrylate (16.31)		43	J
Butyl methacrylate (21.90)		12	J
Unkown Hydrocarbon (22.99)		4.1	J
Unknown Terpene (24.03)		2.5	J
Unknown (26.42)		2.1	J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.624

	E&E Lab. No. 94-	3991
Date Analyzed:		04/05/94
Compound	Sample Identity	DCA005
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		1.4 J
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		3.6 J
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.3 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		2.1 J
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		4.6 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		2.0 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

	E & E Lab. No. 94-	3991
	Analysis Date	04/05/94
Compound	Sample Identity	DCA005
Unknown Alcohol (3.88)		32 J
Acetone (4.15)		31 J
Isopropyl Alcohol (5.32)		4.1 J
1-Butanol (12.85)		4.4 J
Methyl methacrylate (13.27)		3.0 J
Methyl cellosolve (14.01)		3.1 J
Ethyl methacrylate (16.31)		15 J
Butyl methacrylate (21.90)		4.9 J
Unknown (22.96)		3.7 J
Unknown (26.41)		5.7 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.624

E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/05/94
Compound	
Associated Samples:	DCA004, DCA005, DCA008
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

	E & E Lab. No. 94-	VBLKA1
	Analysis Date	04/05/94
Compound	Sample Identity	
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

	9400.624
E&E Lab. No. 94-	VBLKA2
Date Analyzed:	04/06/94
Compound / Associated Samples:	DCA006, DCA007
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

	E & E Lab. No. 94-	VBLKA2
	Analysis Date	04/06/94
Compound	Sample Identity	
Unknown (26.55)		2.6 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.624

	E&E Lab. No. 94-	3992
Date Analyzed:		04/06/94
Compound	Sample Identity	DCA006
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.4 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		13
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		5.8
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		2.6 J
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

	E & E Lab. No. 94-	3992
	Analysis Date	04/06/94
Compound	Sample Identity	DCA006
Pentane Isomer (2.32)		3.0 J
Unknown Alcohol (3.91)		8.2 J
Unknown alcohol (5.37)		2.6 J
Hexane (6.64)		2.6 J
Unknown (29.80)		2.6 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.624

	E&E Lab. No. 94-	3993
Date Analyzed:		04/06/94
Compound	Sample Identity	DCA007
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		3.2 J
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		27
Chlorobenzene		<5.0
Ethylbenzene		2.3 J
Xylene (total)		13
Styrene		<5.0
1,3,5-Trimethylbenzene		1.6 J
1,2,4-Trimethylbenzene		5.8
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

D=39

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

	E & E Lab. No. 94-	3993
	Analysis Date	04/06/94
Compound	Sample Identity	DCA007
Butane (1.52)		7.5 J
Pentane Isomer (2.32)		14 J
Pentane Isomer (2.78)		4.9 J
Unknown Alcohol (3.90)		5.3 J
Acetone (4.18)		3.5 J
Unkown Hydrocarbon (10.80)		4.7 J
1-Butanol (12.85)		3.9 J
Unknown (16.91)		5.7 J
Propylbenzene Isomer (22.42)		3.8 J
Unknown (22.93)		17 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.624

E&E Lab. No. 94-	3994
Date Analyzed:	04/05/94
Compound	
Sample Identity	DCA008
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.624

Compound	E & E Lab. No. 94-	3994
	Analysis Date	04/05/94
	Sample Identity	DCA008
Unknown Alcohol (3.86)		4.4 J
Unknown (16.93)		1.9 J

** Values are approximate retention times, in minutes.

J = Estimated value.

TEST CODE :WPURGH1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04073 MATRIX: WATER
SAMPLE ID CLIENT: DCW-003

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.3	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	0.61		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04074 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-003

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	33		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	5.9	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	3.7		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04075 MATRIX: WATER
SAMPLE ID CLIENT: DCW-004

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	3.6	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	0.76		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.3		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04076 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-005

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	47		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	26		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	290		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04077 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-006

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	12		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	13		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : BE-94-04078 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-00"

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	13		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	12		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04079 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-008

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	15		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	120		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04080 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-009

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	63		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04081 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-010

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	160		10
Vinyl Chloride	61	N	50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : BE-94-04082 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-011

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	25		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.645
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04083 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-012

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	49		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.645

	E&E Lab No. 94-	4084	
Date Analyzed:		04/06/94	
Compound	Sample Identity	DCA009	
Dichlorodifluoromethane		<5.0	
Chloromethane		<5.0	
1,2-Dichlorotetrafluoroethane		<5.0	
Bromomethane		<5.0	
Vinyl Chloride		<5.0	
Chloroethane		<5.0	
Trichlorofluoromethane		<5.0	
1,1,2-Trichlorotrifluroethane		<5.0	
Methylene Chloride		23	
1,1-Dichloroethene		<5.0	
1,1-Dichloroethane		<5.0	
cis-1,2-Dichloroethene		<5.0	
Chloroform		<5.0	
1,2-Dichloroethane		<5.0	
1,1,1-Trichloroethane		1.8	J
Carbon Tetrachloride		<5.0	
1,2-Dichloropropane		<5.0	
cis-1,3-Dichloropropene		<5.0	
Trichloroethene		<5.0	
1,1,2-Trichloroethane		<5.0	
Benzene		<5.0	
trans-1,3-Dichloropropene		<5.0	
1,2-Dibromoethane		<5.0	
Tetrachloroethene		<5.0	
1,1,2,2-Tetrachloroethane		<5.0	
Toluene		1.3	J
Chlorobenzene		<5.0	
Ethylbenzene		<5.0	
Xylene (total)		1.4	J
Styrene		<5.0	
1,3,5-Trimethylbenzene		<5.0	
1,2,4-Trimethylbenzene		<5.0	
1,3-Dichlorobenzene		<5.0	
1,4-Dichlorobenzene		<5.0	
Benzyl Chloride		<5.0	
1,2-Dichlorobenzene		<5.0	
1,2,4-Trichlorobenzene		<5.0	
Hexachlorobutadiene		<5.0	

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	4084
	Analysis Date	04/07/94
Compound	Sample Identity	DCA009
Unknown Alcohol (3.89)		7.1 J
1-Butanol (12.92)		3.7 J
Unknown (22.98)		2.5 J
Unknown (26.42)		2.2 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.645

	E&E Lab No. 94-	4085
Date Analyzed:		04/06/94
Compound	Sample Identity	DCA010
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		12
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.9 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		2.1 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		1.6 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	4085
	Analysis Date	04/07/94
Compound	Sample Identity	DCA010
Pentene Isomer (2.29)		6.7 J
Unkown Alcohol (3.88)		11 J
Unknown (16.93)		7.4 J
Unknown (22.97)		3.9 J
Unkown (26.42)		3.4 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.645

Compound	E&E Lab. No. 94-	4086
Date Analyzed:		04/06/94
	Sample Identity	DCA011
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		<5.0
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		2.5 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	4086
	Analysis Date	04/06/94
Compound	Sample Identity	DCA011
NONE		

** Values are approximate retention times, in minutes.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.645

Compound	E&E Lab No. 94- 4087	
Date Analyzed:	04/06/94	
	Sample Identity: DCA012	
Dichlorodifluoromethane	<5.0	
Chloromethane	<5.0	
1,2-Dichlorotetrafluoroethane	<5.0	
Bromomethane	<5.0	
Vinyl Chloride	<5.0	
Chloroethane	<5.0	
Trichlorofluoromethane	<5.0	
1,1,2-Trichlorotrifluroethane	<5.0	
Methylene Chloride	<5.0	
1,1-Dichloroethene	<5.0	
1,1-Dichloroethane	<5.0	
cis-1,2-Dichloroethene	<5.0	
Chloroform	<5.0	
1,2-Dichloroethane	<5.0	
1,1,1-Trichloroethane	<5.0	
Carbon Tetrachloride	<5.0	
1,2-Dichloropropane	<5.0	
cis-1,3-Dichloropropene	<5.0	
Trichloroethene	<5.0	
1,1,2-Trichloroethane	<5.0	
Benzene	<5.0	
trans-1,3-Dichloropropene	<5.0	
1,2-Dibromoethane	<5.0	
Tetrachloroethene	<5.0	
1,1,2,2-Tetrachloroethane	<5.0	
Toluene	1.7 J	
Chlorobenzene	<5.0	
Ethylbenzene	<5.0	
Xylene (total)	1.4 J	
Styrene	<5.0	
1,3,5-Trimethylbenzene	<5.0	
1,2,4-Trimethylbenzene	<5.0	
1,3-Dichlorobenzene	<5.0	
1,4-Dichlorobenzene	<5.0	
Benzyl Chloride	<5.0	
1,2-Dichlorobenzene	<5.0	
1,2,4-Trichlorobenzene	<5.0	
Hexachlorobutadiene	<5.0	

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	4087
	Analysis Date	04/07/94
Compound	Sample Identity	DCA012
Unknown Alcohol (3.86)		2.6 J
Methyl methacrylate (13.26)		6.0 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.645

Compound	E&E Lab No. 94-	
	4088	
Date Analyzed:	04/07/94	
	Sample Identity	DCA013
Dichlorodifluoromethane	0.9	J
Chloromethane	<5.0	
1,2-Dichlorotetrafluoroethane	<5.0	
Bromomethane	<5.0	
Vinyl Chloride	<5.0	
Chloroethane	<5.0	
Trichlorofluoromethane	<5.0	
1,1,2-Trichlorotrifluroethane	<5.0	
Methylene Chloride	<5.0	
1,1-Dichloroethene	<5.0	
1,1-Dichloroethane	<5.0	
cis-1,2-Dichloroethene	<5.0	
Chloroform	<5.0	
1,2-Dichloroethane	<5.0	
1,1,1-Trichloroethane	1.1	J
Carbon Tetrachloride	<5.0	
1,2-Dichloropropane	<5.0	
cis-1,3-Dichloropropene	<5.0	
Trichloroethene	<5.0	
1,1,2-Trichloroethane	<5.0	
Benzene	<5.0	
trans-1,3-Dichloropropene	<5.0	
1,2-Dibromoethane	<5.0	
Tetrachloroethene	<5.0	
1,1,2,2-Tetrachloroethane	<5.0	
Toluene	2.2	J
Chlorobenzene	<5.0	
Ethylbenzene	<5.0	
Xylene (total)	1.3	J
Styrene	<5.0	
1,3,5-Trimethylbenzene	<5.0	
1,2,4-Trimethylbenzene	<5.0	
1,3-Dichlorobenzene	<5.0	
1,4-Dichlorobenzene	2.3	J
Benzyl Chloride	<5.0	
1,2-Dichlorobenzene	<5.0	
1,2,4-Trichlorobenzene	<5.0	
Hexachlorobutadiene	<5.0	

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	4088
	Analysis Date	04/07/94
Compound	Sample Identity	DCA013
Unknown Alcohol (3.88)		2.9 J
1-Butanol (12.85)		2.2 J
Methyl methacrylate (13.28)		3.4 J
Unknown (16.90)		6.5 J
Unkown (22.94)		2.5 J
Unknown Hydrocarbon (24.50)		1.8 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

	9400.645
E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/06/94
Compound / Associated Samples:	DCA009, DCA010, DCA011, DCA012
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	VBLKA1
	Analysis Date	04/06/94
Compound	Sample Identity	
Unknown (26.55)		2.6

** Values are approximate retention times, in minutes.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.645

	E&E Lab. No. 94- VBLKA2
Date Analyzed:	04/07/94
Compound	Associated Samples: DCA013
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.645

	E & E Lab. No. 94-	VBLKA2
	Analysis Date	04/07/94
Compound	Sample Identity	
NONE		

** Values are approximate retention times, in minutes.

TEST CODE :WPURGH1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : E-94-04223 MATRIX: WATER
SAMPLE ID CLIENT: DCW-0041

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	6.3		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04224 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-004

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	21		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	1.6		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.1	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	5.3		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : BE-94-04225 MATRIX: WATER
SAMPLE ID CLIENT: DCW-005

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	2.2	J	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04229 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-13

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	13		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	18	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : BE-94-04230 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-14

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	10		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	26	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04231 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-15

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	15	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04232 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-16

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	11		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	19	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04233 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-17

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	17	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : E-94-04234 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-18

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	21	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04235 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-19

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	15	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : BE-94-04236 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-20

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	34	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.662
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
LAB SAMPLE ID : METHOD BLANK MATRIX: AIR

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	3.1	J	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.662

Compound	E&E Lab. No. 94-	4226
Date Analyzed:		04/07/94
	Sample Identity	DCA016
Dichlorodifluoromethane		0.9 J
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		<5.0
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.662

	E & E Lab. No. 94-	4226
	Analysis Date	04/07/94
Compound	Sample Identity	DCA016
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.662

	E&E Lab. No. 94-	4227
Date Analyzed:		04/07/94
Compound	Sample Identity	DCA017
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.5 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		2.2 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

105

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.662

	E & E Lab. No. 94-	4227
	Analysis Date	04/07/94
Compound	Sample Identity	DCA017
Isobutane (1.30)		52 J
Unknown Alcohol (3.90)		2.9 J
Unknown (16.92)		3.3 J
Terpene Isomer (24.02)		2.3 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.662

Compound	E&E Lab. No. 94-	4228
Date Analyzed:		04/07/94
	Sample Identity	DCA018
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		3.4 J
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		0.7 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		2.1 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.662

	E & E Lab. No. 94-	4228
	Analysis Date	04/07/94
Compound	Sample Identity	DCA018
Unknown Alcohol (3.91)		19 J
1-Butanol (12.86)		2.2 J
Unknown (16.91)		4.4 J
Terpene Isomer (24.03)		6.5 J
Unknown (26.41)		3.1 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.662

E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/07/94
Compound / Associated Samples:	DCA016, DCA017, DCA018
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.662

E & E Lab. No. 94-	VBLKA1
Analysis Date	04/07/94

Compound	Sample Identity
NONE	

** Values are approximate retention times, in minutes.

J = Estimated value.

TEST CODE :WPURGH1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04423 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-005

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.1	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

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TEST CODE :WPURGH1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04424 MATRIX: WATER
SAMPLE ID CLIENT: DCMW-9S

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	1.8		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	3.0	B	2.5
trans-1,2-Dichloroethene	1.0		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	32		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	7.3		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : BE-94-04425 MATRIX: WATER
SAMPLE ID CLIENT: DCW-006

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	3.1	B	2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	17		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-01429 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-021

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	20		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	60	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04430 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-022

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	13		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	50	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04431 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-023

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	7.8	J	10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	50	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04432 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-024

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	12		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	42	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04433 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-025

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	9.9	J	10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	45	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04434 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-026

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	11		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	49	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.687
ELAP ID : 10486

Ecology and Environment, Inc
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
LAB SAMPLE ID : METHOD BLANK MATRIX: AIR

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	5.6		10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.687

Compound	E&E Lab. No. 94-	4426
Date Analyzed:		04/11/94
	Sample Identity	DCA019
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		14
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		1.7 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.687

Compound	E & E Lab. No. 94-	4426
	Analysis Date	04/11/94
	Sample Identity	DCA019
Unknown (22.95)		0.60 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.687

Compound	E&E Lab. No. 94-	4427
Date Analyzed:		04/11/94
	Sample Identity	DCA020
Dichlorodifluoromethane		<5.0
Chloromethane		4.4 J
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		4.8 J
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		2.5 J
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		7.7
Chlorobenzene		<5.0
Ethylbenzene		1.0 J
Xylene (total)		5.4
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		1.4 J
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

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J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.687

	E & E Lab. No. 94-	4427
	Analysis Date	04/11/94
Compound	Sample Identity	DCA020
Pentadiene Isomer (3.20)		5.3 J
Unknown alcohol (3.87)		5.4 J
Acetone (4.15)		3.0 J
1-Butanol (12.85)		6.4 J
Unknown (16.90)		5.1 J
Unknown (22.94)		3.6 J
Terpene Isomer (24.03)		1.7 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.687

	E&E Lab. No. 94-	4428
Date Analyzed:		04/11/94
Compound	Sample Identity	DCA021
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		2.3 J
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		1.4 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		0.8 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.687

	E & E Lab. No. 94-	4428
	Analysis Date	04/11/94
Compound	Sample Identity	DCA021
Unknown (26.41)		2.0 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.687

E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/11/94
Compound / Associated Samples:	DCA019, DCA020, DCA021
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.687

	E & E Lab. No. 94-	VELKA1
	Analysis Date	04/11/94
Compound	Sample Identity	
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

TEST CODE :WPURGH1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04569 MATRIX: WATER
SAMPLE ID CLIENT: DCW-007

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

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TEST CODE :WPURGH1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : BE-94-04570 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-006

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.3		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :ABTX 1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04565 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-027

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	33	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04566 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-028

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	20		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	22	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : RE-94-04567 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-029

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	16		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	26	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04568 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-030

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	10		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	23	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.717
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
LAB SAMPLE ID : METHOD BLANK MATRIX: AIR

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	6.3	J	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.717

Compound	E&E Lab. No. 94-	4562
Date Analyzed:		04/15/94
	Sample Identity	DCA022
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		3.2 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.717

	E & E Lab. No. 94-	4562
	Analysis Date	04/15/94
Compound	Sample Identity	DCA022
Unknown (22.97)		1.9 J
Terpene Isomer (24.04)		5.3 J
Unknown (26.42)		47 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.717

E&E Lab. No. 94-	4563
Date Analyzed:	04/15/94
Compound / Sample Identity	DCA023
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	1.7 J
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	0.7 J
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	12
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	1.3 J
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.717

Compound	E & E Lab. No. 94-	4563
	Analysis Date	04/15/94
	Sample Identity	DCA023
1-Chloro-1,1-difluoroethane (1.34)		9.5 J
Unknown Alcohol (3.81)		28 J
Acetone (4.04)		4.2 J
1-Butanol (12.78)		6.3 J
Unknown (22.95)		5.4 J
Terpene Isomer (24.03)		15 J
Unknown (26.42)		110 J

** Values are approximate retention times, in minutes.

J = Estimated value.

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ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.717

Compound	E&E Lab. No. 94-	4564
Date Analyzed:		04/15/94
	Sample Identity	DCA024
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		14
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		<5.0
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		1.3 J
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

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ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.717

Compound	E & E Lab. No. 94-	4564
	Analysis Date	04/15/94
	Sample Identity	DCA024
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.717

E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/15/94
Compound / Associated Samples:	DCA022, DCA023, DCA024
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.717

	E & E Lab. No. 94-	VELKA1
	Analysis Date	04/15/94
Compound	Sample Identity	
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

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TEST CODE :WPURGH1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04710 MATRIX: WATER
SAMPLE ID CLIENT: DCW-008

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

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TEST CODE :WPURGH1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
SAMPLE ID LAB : EE-94-04711 MATRIX: WATER
SAMPLE ID CLIENT: DCTB-007

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	ND		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
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A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :WPURGH1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP
TEST NAME : PURGEABLE HALOCARB UNITS : UG/L
LAB SAMPLE ID : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Dichlorodifluoromethane	ND		5.0
Chloromethane	ND		5.0
Vinyl chloride	ND		1.0
Bromomethane	ND		0.50
Chloroethane	ND		0.80
Fluorotrichloromethane	ND		0.60
1,1-Dichloroethene	ND		0.50
Methylene chloride	4.3		2.5
trans-1,2-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		0.50
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		3.0
Bromodichloromethane	ND		2.0
2-Chloroethylvinyl ether	ND		2.0
cis-1,3-Dichloropropene	ND		0.70
trans-1,3-Dichloropropene	ND		1.5
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.80
Bromoform	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.80
1,4-Dichlorobenzene	ND		0.80
1,2-Dichlorobenzene	ND		0.80

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE
A = PHENOMENON OF METHODOLOGY WITH ACID PRESERVATION

TEST CODE :ABTX 1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04705 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-031

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	27		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	36	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04706 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-032

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	27		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	37	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04707 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-033

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	13		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	31	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04708 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-034

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	37	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
SAMPLE ID LAB : EE-94-04709 MATRIX: AIR
SAMPLE ID CLIENT: DCSG-035

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	32	B	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :ABTX 1 JOB NUMBER :9400.734
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : OB-5000 NYSDEC - DEARCOP UNITS : UG/M3
LAB SAMPLE ID : METHOD BLANK MATRIX: AIR

PARAMETER	RESULTS	Q	QNT. LIMIT
Chloroethane	ND		10
1,1-Dichloroethene	ND		10
trans-1,2-Dichloroethene	ND		10
1,1-Dichloroethane	ND		10
cis-1,2-Dichloroethene	ND		10
1,1,1-Trichloroethane	ND		10
1,2-Dichloroethane	ND		10
Trichloroethene	ND		10
Methylene Chloride	2.4	J	10
Vinyl Chloride	ND		50

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.734

	E&E Lab. No. 94-	4702
Date Analyzed:		04/15/94
Compound	Sample Identity	DCA025
Dichlorodifluoromethane		3.5 J
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		38
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		0.9 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		6.1
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		2.5 J
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		1.1 J
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		12
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.734

	E & E Lab. No. 94-	4702
	Analysis Date	04/15/94
Compound	Sample Identity	DCA025
Unknown alcohol (3.90)		3.6 J
1-Butanol (12.86)		2.2 J
Unknown Hydrocarbon (25.40)		1.7 J
Unknown (26.41)		8.2 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.734

	E&E Lab. No. 94-	4703
Date Analyzed:		04/15/94
Compound	Sample Identity	DCA026
Dichlorodifluoromethane		1.8 J
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		3.5 J
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		1.0 J
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		4.1 J
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		18
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.734

	E & E Lab. No. 94-	4703
	Analysis Date	04/15/94
Compound	Sample Identity	DCA026
Ethanol (1.34)		76 J
Unknown alcohol (3.92)		29 J
Unknown (16.92)		2.4 J
Unknown (26.41)		20 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.734

	E&E Lab. No. 94-	4704
Date Analyzed:		04/15/94
Compound	Sample Identity	DCA027
Dichlorodifluoromethane		<5.0
Chloromethane		<5.0
1,2-Dichlorotetrafluoroethane		<5.0
Bromomethane		<5.0
Vinyl Chloride		<5.0
Chloroethane		<5.0
Trichlorofluoromethane		<5.0
1,1,2-Trichlorotrifluroethane		<5.0
Methylene Chloride		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
cis-1,2-Dichloroethene		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
1,1,1-Trichloroethane		<5.0
Carbon Tetrachloride		<5.0
1,2-Dichloropropane		<5.0
cis-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
trans-1,3-Dichloropropene		<5.0
1,2-Dibromoethane		<5.0
Tetrachloroethene		<5.0
1,1,2,2-Tetrachloroethane		<5.0
Toluene		<5.0
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Xylene (total)		<5.0
Styrene		<5.0
1,3,5-Trimethylbenzene		<5.0
1,2,4-Trimethylbenzene		<5.0
1,3-Dichlorobenzene		<5.0
1,4-Dichlorobenzene		<5.0
Benzyl Chloride		<5.0
1,2-Dichlorobenzene		<5.0
1,2,4-Trichlorobenzene		<5.0
Hexachlorobutadiene		<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.734

	E & E Lab. No. 94-	4704
	Analysis Date	04/15/94
Compound	Sample Identity	DCA027
Unknown (16.93)		2.2 J
Unknown (26.41)		8.9 J

** Values are approximate retention times, in minutes.

J = Estimated value.

ECOLOGY AND ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER

RESULTS OF AIR ANALYSIS FOR VOLATILE ORGANIC COMPOUNDS BY GC/MS USING METHOD TO-14

(all results in ppbv)

9400.734

E&E Lab. No. 94-	VBLKA1
Date Analyzed:	04/15/94
Compound	
Associated Samples:	DCA025, DCA026, DCA027
Dichlorodifluoromethane	<5.0
Chloromethane	<5.0
1,2-Dichlorotetrafluoroethane	<5.0
Bromomethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Trichlorofluoromethane	<5.0
1,1,2-Trichlorotrifluroethane	<5.0
Methylene Chloride	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
cis-1,2-Dichloroethene	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
1,1,1-Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
trans-1,3-Dichloropropene	<5.0
1,2-Dibromoethane	<5.0
Tetrachloroethene	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Xylene (total)	<5.0
Styrene	<5.0
1,3,5-Trimethylbenzene	<5.0
1,2,4-Trimethylbenzene	<5.0
1,3-Dichlorobenzene	<5.0
1,4-Dichlorobenzene	<5.0
Benzyl Chloride	<5.0
1,2-Dichlorobenzene	<5.0
1,2,4-Trichlorobenzene	<5.0
Hexachlorobutadiene	<5.0

J = Estimated Value

ECOLOGY AND ENVIRONMENT, INC.

RESULTS OF AIR ANALYSIS FOR TENTATIVELY IDENTIFIED
VOLATILE ORGANIC COMPOUNDS BY GC/MS

(all results in ppbv)

9400.734

	E & E Lab. No. 94-	VBLKA1
	Analysis Date	04/15/94
Compound	Sample Identity	
NONE		

** Values are approximate retention times, in minutes.

J = Estimated value.

M E M O R A N D U M

TO: Jim Richert

FROM: Caryn Wojtowicz

DATE: July 27, 1994

SUBJECT: Dearcop: Vinyl Chloride in Air

cc: B. Krajewski
File

Vinyl chloride was reported as a "hit" flagged with an "N" flag in sample DCSG-010 from E&E Job number 9400.645.

The sample was collected in a Tedlar bag. This analysis was performed by Method TO3 using gas chromatography. This method does not require confirmation, nor suggest conditions for such.

All other compounds reported present in these Tedlar bag samples had no qualifier flag attached although they also were unconfirmed. Historically, these compounds were all reasonable due to knowledge of the site.

The "N" flag on the vinyl chloride hit was not clearly defined. The chromatographer's intention was to cast doubt on its reliability. Although the peak observed met retention time criteria, it was suspected to be a system artifact. It is highly unlikely at this site that vinyl chloride alone would be observed without the presence of other chlorinated volatile organics.

:edh