Blue Water Environmental, Inc.
1610 NEW HIGHWAY
FARMINGDALE, NEW YORK 11735
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LETTER OF TRANSMITTAL

To:	**NYSDEC**
	Bureau of Construction Services
	625 Broadway, 12th Floor, Albany, NY 12233-7010
Attention:	**GERARD BURKE**
Gentlemen:	We are Sending You

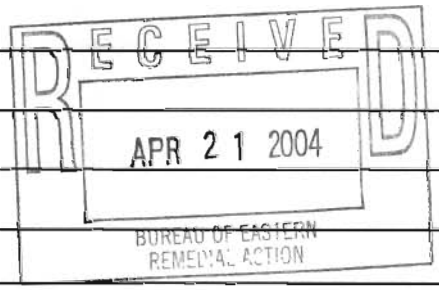
Date: Friday, April 16, 2004
Re: **NYSDEC - D004134**
Active Industrial Uniform
Lindenhurst, NY

VIA : Fed Ex 2-day BWE Job No. 02370-01830

☑ **Attached** ☐ **Catalog Cuts** ☐ **Certifications** ☐

☐ **Copy of letter** ☐ **Shop drawings** ☐ **Specifications** ☐

COPIES	DATE	NO.	DESCRIPTION
1	4/16/04	0	**Fourth Quarter 2003 Operation and Maintenance Quarterly Report** Active Industrial Uniform, Lindenhurst, New York, NYSDEC Contract No. D004134



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Remarks : If you have any questions or comments please do not hesitate to call me at 631-249-1872 ext. 266.

Copy To : File

Signed : Mark P. Soliman

Mark P. Soliman, Project Manager / Engineer

FOURTH QUARTER 2003
OPERATION AND MAINTENANCE
QUARTERLY REPORT

APRIL 13, 2004
ACTIVE INDUSTRIAL UNIFORM SITE
67 WEST MONTAUK HIGHWAY
VILLAGE OF LINDENHURST, NEW YORK

NYSDEC CONTRACT NO. D004134

FOURTH QUARTER 2003
OPERATION AND MAINTENANCE
QUARTERLY REPORT

APRIL 13, 2004

PREPARED FOR

New York State Department of
Environmental Conservation
(NYSDEC)

PREPARED BY

Blue Water Environmental, Inc.
1610 New Highway
Farmingdale, New York
11735

Mark P. Soliman, Project Manager/Engineer

Michael S. Posillico, President

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1. INTRODUCTION

This is the quarterly report representing the fourth quarter of system operation for the year 2003 prepared for the New York State Department of Environmental Conservation (NYSDEC) in accordance with NYSDEC Contract No. D004134 for the operation of the groundwater treatment system at the Active Industrial Site located at 67 West Montauk Highway in Lindenhurst, New York. On January 15, 2003, the NYSDEC provided Blue Water Environmental, Inc. (Blue Water) approval to modify the reporting schedule from a monthly to a quarterly basis. Therefore, this quarterly report includes summaries of monitoring and sample collection activities performed for the periods of October and November, 2003. Monitoring and sample collection activities were not performed for the month of December due to malfunction of the groundwater treatment system as a result of cold temperatures.

On November 6, 2003 and December 20, 2003, Blue Water completed the monthly Operation and Maintenance (O&M) monitoring and sample collection activities for the months of October and November 2003, respectively, of the Active Industrial groundwater pump and treatment system in accordance with the referenced contract. The following sections briefly describe the groundwater treatment system operation during the October and November 2003 operation periods.

2. OPERATIONAL DESCRIPTION

The groundwater treatment system was in operation for this reporting period (October 4, 2003 through January 10, 2004) as follows:

- **October 2003:** **34 days**
- **November 2003:** **42 days**
- **December 2003:** **21 days**

During this operation period, both air stripping towers (in-series), and Recovery Wells RW-1 and RW-2 were on-line.

The discharge flow meter recorded approximately 13,218,016 gallons of water treated by the system during the Fourth Quarter 2003 reporting period with a weighted average for system effluent flow of 161 gallons per minute (gpm). The RW-1 flow meter recorded average recovery flows as follows:

- **October 2003:** **84 gpm**
- **November 2003:** **90 gpm**

The RW-2 flow meter recorded average recovery flows as follows:

- **November 2003:** **76 gpm**
- **December 2003:** **78 gpm**

The following is a summary of system operation to date:

- **Total Water Treated to Date:** **140,630,288 gallons**
- **Total Mass of VOCs Recovered to date:** **560 pounds**
- **Mass of VOCs Removed in Reporting Period:** **31 pounds**

3. SUMMARY OF ON-SITE QUARTERLY ACTIVITIES

During the operating month of the fourth quarter 2003, the following tasks were performed:

- November 6, 2003 — Influent and Effluent water samples were collected and analyzed for volatile organic compounds (VOCs). Effluent water samples were collected and analyzed for RCRA Metals, alkalinity, residual chlorine, pH, chemical oxygen demand (COD), total dissolved solids (TDS), and total suspended solids (TSS). The samples were submitted to Environmental Testing Laboratory, Inc. of Farmingdale, New York. Carbon influent air samples were collected and analyzed for VOCs under method 6021 by Microseeps, Inc. of Pittsburgh, Pennsylvania and discharge air samples were collected and analyzed for VOCs under TO-14A by Air Toxics Ltd of Folsom, California.
- November 29, 2003 — System down to power outage.
- December 1, 2003 — Re-started system upon restoration of power.
- December 20, 2003 — Influent and Effluent water samples were collected and analyzed for volatile organic compounds (VOCs). Effluent water samples were collected and analyzed for RCRA Metals, alkalinity, residual chlorine, pH, chemical oxygen demand (COD), total dissolved solids (TDS), and total suspended solids (TSS). The samples were submitted to Environmental Testing Laboratory, Inc. of Farmingdale, New York. Carbon influent air samples were collected and analyzed for VOCs under method 6021 by Microseeps, Inc. of Pittsburgh, Pennsylvania and discharge air samples were collected and analyzed for VOCs under TO-14 by Air Toxics Ltd of Folsom, California.

- January 10, 2004 System down due to cold temperatures. Transducers were frozen.

4. SUMMARY OF FIELD DATA AND ANALYTICAL RESULTS

The October and November ground-water influent analytical results indicate that the system is successfully recovering and treating approximately 0.015 and 0.018 pounds per hour of volatile organic compounds (VOCs), respectively. The in-series tower air stripping system removed approximately 100% of the contaminant mass from the water into the vapor stream for October and November. However, there was an exceedence for NYSDEC Effluent Limits for the quarterly period. Manganese was above the effluent limit of 2 mg/L at 2.16 mg/L on November 6, 2003 and 2.10 mg/L on December 20, 2003. The system cumulative mass removal since startup is approximately 560 pounds of VOCs.

Table 1 summarizes the process water analytical data, Table 2 summarizes the process air analytical data, Table 3 summarizes operational parameters collected during the October and November 2003 O&M monitoring and sampling events, Table 4 summarizes the TO-14 effluent vapor sample data, and Table 5 summarizes the VOC effluent discharge rates. A copy of the laboratory analytical reports for air/vapor samples from Microseeps, Inc. and Air Toxics, Ltd. are provided in Appendix A. The laboratory analytical reports for the process water samples from Environmental Testing Laboratories are provided in Appendix C.

Table 1. Summary of Process Water Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Cas No.	Detection Limit	NYSDEC Effluent Limits	INFLUENT INF. HEADER 11/06/03	INFLUENT INF. HEADER 12/20/2003	
Volatile Organic Compounds (ug/L)						
Trichloroethene	79-01-6	0.36	10	27.0	34.1	
Tetrachloroethene	127-18-4	0.11	4	96.4	121	
c-1,2-Dichloroethene	156-59-2	0.24	10	63.4	70.9	
t-1,2-Dichloroethene		0.31	NL	4.28	<2.40	
1,1-Dichloroethene	75-35-4	0.27	NL	<0.80	<2.90	
1,1,1-Trichloroethane	71-55-6	0.26	5	<0.80	<2.30	
Total Xylene	--	--	5	ND	ND	
Vinyl Chloride	75-01-4	0.23	10	<0.55	<3.90	
2-Butanone (Methyl Ethyl Ketone)		5	NL	<2.30	<16.8	
1,1-Dichloroethane	75-34-3	0.3	NL	<0.47	<2.60	
1,2,4-Trimethylbenzene		0.17	NL	<0.55	<2.30	
Methyl t-butyl ether	75-34-3	0.18	NL	<0.37	<1.70	
1,2,4,5-Tetramethylbenzene		1.8	NL	<0.60	<1.60	
Naphthalene		0.29	NL	<2.30	<2.70	
Sum of VOC Constituents				191.1		226.0
Inorganic Compounds mg/L						
Iron	7439-89-6	0.018	4	--	--	
Manganese	7439-96-5	0.0008	2	--	--	
TDS	--	9.92	Monitor	--	--	
TSS	--	4.58	20	--	--	
Aluminum	7429-90-5	0.031	4	--	--	
Arsenic	7440-38-2	0.0034	0.14	--	--	
Cadmium	7440-43-9	0.0003	0.03	--	--	
Copper	7440-50-8	0.0029	0.038	--	--	
Nickel	7440-02-0	0.0005	0.065	--	--	
Silver	7440-22-4	0.001	0.009	--	--	
Zinc	7440-66-6	0.0044	0.37	--	--	
Antimony	7440-36-0	0.002	NL	--	--	
Barium	7440-39-3	0.0004	NL	--	--	
Calcium	7440-70-2	0.026	NL	--	--	
Chromium	7440-47-3	0.0016	NL	--	--	
Cobalt	7440-48-4	0.0004	NL	--	--	
Lead	7439-92-1	0.0017	NL	--	--	
Magnesium	7439-95-4	0.027	NL	--	--	
Mercury	7439-97-6	0.00002	NL	--	--	
Potassium	7440-09-7	0.052	NL	--	--	
Residual Chlorine	--	NA	NL	--	--	
Selenium	7782-49-2	0.0043	NL	--	--	
Sodium	7440-23-5	0.22	NL	--	--	
Thallium	7440-28-0	0.002	NL	--	--	
Vanadium	7440-62-2	0.0005	NL	--	--	

Table 1. Summary of Process Water Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Cas No.	Detection Limit	**NYSDEC Effluent Limits**	INFLUENT INF. HEADER 11/06/03	INFLUENT INF. HEADER 12/20/2003
General Chemistry					
COD, dissolved (mg/L)		4.8	NL	--	--
Conductivity, dissolved at 25°C (ms/cm)		NA	NL	4.87	4.73
Turbidity (NTU)		NA	NL	0	0
pH (s.u.)		0.01	6 to 9	5.10	5.75
Alkalinity (mg/L)		0.28	NL	--	--
Dissolved Oxygen (mg/L)		NA	NL	3.45	1.33

Notes:

*	Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding the detection limits have been included above. A complete list of parameters is included in the Analytical Reports located in Appendix A.
**	Analysis was performed by Environmental Testing Laboratories, Inc. of Farmingdale, New York
ug/L	Micrograms per liter.
mg/L	Milligrams per liter.
ms/cm	Millisiemens per centimeter.
s.u.	Standard pH units.
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
NL	No Limit
ND	Not detected above detection limits
--	Sample not analyzed for specific parameter

Table 1. Summary of Process Water Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent:	Sample ID/Port:	MIDFLUENT	MIDFLUENT
	Sample Location:	HEADER	HEADER
Units as noted	Date Collected:	11/06/03	12/20/2003
Volatile Organic Compounds (ug/L)			
Trichloroethene		--	--
Tetrachloroethene		--	--
c-1,2-Dichloroethene		--	--
t-1,2-Dichloroethene		--	--
1,1-Dichloroethene		--	--
1,1,1-Trichloroethane		--	--
Total Xylene		--	--
Vinyl Chloride		--	--
2-Butanone (Methyl Ethyl Ketone)		--	--
1,1-Dichloroethane		--	--
1,2,4-Trimethylbenzene		--	--
Methyl t-butyl ether		--	--
1,2,4,5-Tetramethylbenzene		--	--
Naphthalene		--	--
Sum of VOC Constituents		--	--
Inorganic Compounds mg/L			
Iron		--	--
Manganese		--	--
TDS		--	--
TSS		--	--
Aluminum		--	--
Arsenic		--	--
Cadmium		--	--
Copper		--	--
Nickel		--	--
Silver		--	--
Zinc		--	--
Antimony		--	--
Barium		--	--
Calcium		--	--
Chromium		--	--
Cobalt		--	--
Lead		--	--
Magnesium		--	--
Mercury		--	--
Potassium		--	--
Residual Chlorine		--	--
Selenium		--	--
Sodium		--	--
Thallium		--	--
Vanadium		--	--

Table 1. Summary of Process Water Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: / Units as noted	Sample ID/Port: / Sample Location: / Date Collected:	MIDFLUENT HEADER 11/06/03	MIDFLUENT HEADER 12/20/2003
General Chemistry			
COD, dissolved (mg/L)		--	--
Conductivity, dissolved at 25°C (ms/cm)		4.98	4.66
Turbidity (NTU)		0	0
pH (s.u.)		6.18	6.39
Alkalinity (mg/L)		--	--
Dissolved Oxygen (mg/L)		7.00	8.39

Notes:

*	Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding the detecti limits have been included above. A complete list of parameters is included in the Analytical Reports located in Appendix
**	Analysis was performed by Environmental Testing Laboratories, Inc. of Farmingdale, New York
ug/L	Micrograms per liter.
mg/L	Milligrams per liter.
ms/cm	Millisiemens per centimeter.
s.u.	Standard pH units.
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
NL	No Limit
ND	Not detected above detection limits
--	Sample not analyzed for specific parameter

Table 1. Summary of Process Water Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	**NYSDEC Effluent Limits**	EFFLUENT DISCHARGE 11/06/03	EFFLUENT DISCHARGE 12/20/2003
Volatile Organic Compounds (ug/L)			
Trichloroethene	10	<0.16	<0.16
Tetrachloroethene	4	<0.39	<0.39
c-1,2-Dichloroethene	10	<0.17	<0.17
t-1,2-Dichloroethene	NL	>0.15	<0.15
1,1-Dichloroethene	NL	<0.16	<0.16
1,1,1-Trichloroethane	5	<0.16	<0.16
Total Xylene	5	ND	ND
Vinyl Chloride	10	<0.11	<0.11
2-Butanone (Methyl Ethyl Ketone)	NL	<0.46	<0.46
1,1-Dichloroethane	NL	<0.095	<0.095
1,2,4-Trimethylbenzene	NL	<0.11	<0.11
Methyl t-butyl ether	NL	1.31	<0.074
1,2,4,5-Tetramethylbenzene	NL	<0.12	<0.12
Naphthalene	NL	<0.46	<0.46
Sum of VOC Constituents		1.3	0.0
Inorganic Compounds mg/L			
Iron	4	0.27	0.22
Manganese	2	**2.16**	**2.10**
TDS	Monitor	2670	2720
TSS	20	<4.58	<4.58
Aluminum	4	0.035	0.16
Arsenic	0.14	0.033	0.024
Cadmium	0.03	<0.00030	<0.00030
Copper	0.038	<0.0029	<0.0029
Nickel	0.065	0.0014	0.001
Silver	0.009	<0.0010	<0.0010
Zinc	0.37	0.0046	0.13
Antimony	NL	0.017	0.025
Barium	NL	0.032	0.026
Calcium	NL	77.4	74.3
Chromium	NL	0.0026	0.012
Cobalt	NL	0.0005	<0.00040
Lead	NL	<0.0017	0.033
Magnesium	NL	94.6	90.1
Mercury	NL	0.000055	<0.000020
Potassium	NL	40.2	26.6
Residual Chlorine	NL	ND	ND
Selenium	NL	0.023	0.047
Sodium	NL	833	684
Thallium	NL	0.028	0.017
Vanadium	NL	<0.00050	0.0025

Table 1. Summary of Process Water Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	**NYSDEC Effluent Limits**	EFFLUENT DISCHARGE 11/06/03	EFFLUENT DISCHARGE 12/20/2003
General Chemistry			
COD, dissolved (mg/L)	NL	82.4	44.3
Conductivity, dissolved at 25°C (ms/cm)	NL	4.93	4.66
Turbidity (NTU)	NL	0	0
pH (s.u.)	6 to 9	6.45	6.73
Alkalinity (mg/L)	NL	73	48
Dissolved Oxygen (mg/L)	NL	7.00	8.7

Notes:

* Only parameters that are required for effluent monitoring and parameters that have concentrations exceeding the detection A. limits have been included above. A complete list of parameters is included in the Analytical Reports located in Appendix A.

** Analysis was performed by Environmental Testing Laboratories, Inc. of Farmingdale, New York

ug/L Micrograms per liter.

mg/L Milligrams per liter.

ms/cm Millisiemens per centimeter.

s.u. Standard pH units.

TDS Total Dissolved Solids

TSS Total Suspended Solids

NL No Limit

ND Not detected above detection limits

-- Sample not analyzed for specific parameter

Table 2. Summary of Process Vapor Analytical Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Constituent: Units as noted	Detection Limit	Sample ID/Port: Sample Location: Date Collected:	INFLUENT TO CARBON 11/6/2003	INFLUENT TO CARBON 12/20/2003
VOCs - 601/602 (ppm_v):				
cis-1,2-Dichloroethene	0.01		0.14	0.13
trans-1,2-Dichloroethene	0.01		<0.010	<0.010
1,1-Dichloroethane	0.01		<0.010	<0.010
1,1,1-Trichloroethane	0.005		<0.005	<0.0050
Tetrachloroethene	0.005		0.16	0.15
Trichloroethene	0.005		0.048	0.058
Toluene	0.1		<0.10	<0.10
Total			0.348	0.338

Notes:

* Only parameters that have concentrations exceeding the detection limits have been included above. A complete list of parameters is included in the Analytical Reports located in Appendix A.

** Analysis was performed by Microseeps, Inc. of Pittsburgh, Pennsylvania

ppb_v Parts per million by volume

ND Not detected over method detection limits.

Table 3. OPERATION & MAINTENANCE FORM, Active Industrial Uniform Site, Lindenhurst, New York, NYSDEC Contract No. D004134.

DATE:	12/21/2001	1/30/2002	3/4/2002	4/5/2002	5/21/2002	6/10/2002
TECHNICIAN:	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN
WATER						
RW-1 Flow (gpm)	90	80	79.4	81	80.6	79.1
RW-1 Total (gallons)	36,300	3,972,000	7,739,697	10,843,349	15,129,285	17,333,260
RW-2 Flow (gpm)	115	100	102	100.7	100.18	100
RW-2 Total (gallons)	40,810	4,959,775	9,718,481	13,679,048	17,852,170	20,605,762
RW-1 Pressure (psi)	16.5	21	20	21	22	22
RW-2 Pressure (psi)	17	32	30	32	33	18
Combined Pressure (psi)	14	13.5	14	14	14	14
P-1 Pressure (psi)	14	14	14	14	13	13
P-2 Pressure (psi)	24	12	27	14	12	12
Filter in Pressure (psi)	---	---	28	28	27	28
Filter out Pressure (psi)	---	---	11	11	12	12
Effluent Flow (gpm)	197	182	184	192	180.4	177.1
Effluent Total (gallons)	---	8,980,610	17,577,514	24,708,172	33,158,338	38,099,669
AIR						
Air Flow (IWC)	---	---	---	---	---	---
Midfluent Vacuum (IWC)	5.5	0	0	0	0	0
Blower Influent Vacuum (IWC)	10.5	13	13	12	12	12
Blower Effluent Pressure (IWC)	---	5	5	3	8	8
Carbon 1 Pressure (IWC)	7	5	4	4	6	6
Carbon 1 Temperature (F)	65	70	60	64	79	79
Carbon 2 Pressure (IWC)	4	3	5	2	3	3
Carbon 2 Temperature (F)	65	65	60	58	79	79
NOTES						
Cartridge Filter Bypassed	N	Y	N	N	N	N
Lead Carbon Changeout	N	N	N	Y	N	N
Lag Carbon Changeout	N	N	N	N	N	N
Water in Sump	Y	Y	Y	N	N	N
Acid Wash Performed	N	N	N	N	N	N
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N

Table 3. OPERATION & MAINTENANCE FORM, Active Industrial Uniform Site, Lindenhurst, New York, NYSDEC Contract No. D004134.

DATE:	7/9/2002	8/15/2002	9/12/2002	10/11/2002	11/7/2002	12/11/2002
TECHNICIAN:	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	M-SOLIMAN	C-FAWD
WATER						
RW-1 Flow (gpm)	80.02	77.8	82.6	84.2	83.3	84.5
RW-1 Total (gallons)	20,248,498	24,392,360	27,418,196	30,622,274	33,685,276	37,194,460
RW-2 Flow (gpm)	91.45	89.1	88.7	85.1	82	NG
RW-2 Total (gallons)	24,106,302	28,886,434	32,316,484	35,828,892	38,936,800	NG
RW-1 Pressure (psi)	22	22	20	19	20	18
RW-2 Pressure (psi)	23	22	22	21	21	NG
Combined Pressure (psi)	14	14	13	14	14	13
P-1 Pressure (psi)	13	13	13	14	13	12
P-2 Pressure (psi)	12	14	13	12	14	5
Filter in Pressure (psi)	0	16	15	14	16	0
Filter out Pressure (psi)	0	10	10	11	9	3
Effluent Flow (gpm)	171.58	168	167.7	166.67	160.8	59
Effluent Total (gallons)	44,445,564	53,294,889	59,681,940	66,331,600	72,407,999	78,222,360
AIR						
Air Flow (IWC)	0.9	0.9	0.9	0.9	0.9	0.9
Midfluent Vacuum (IWC)	0	0	0	0	0	0
Blower Influent Vacuum (IWC)	10	11	12	12	11	11
Blower Effluent Pressure (IWC)	5	5	3	4	4	5
Carbon 1 Pressure (IWC)	5	5	5	5	6	5
Carbon 1 Temperature (F)	84	83	77	70	67	60
Carbon 2 Pressure (IWC)	3	3	3	3	3	3
Carbon 2 Temperature (F)	82	81	77	70	62	55
NOTES						
Cartridge Filter Bypassed	N	N	N	N	N	N
Lead Carbon Changeout	Y	N	N	N	N	N
Lag Carbon Changeout	N	N	N	N	N	Y
Water in Sump	N	N	N	N	N	N
Acid Wash Performed	N	N	N	N	N	Y
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N

Table 3. OPERATION & MAINTENANCE FORM, Active Industrial Uniform Site, Lindenhurst, New York, NYSDEC Contract No. D004134.

DATE:	1/10/2003	2/12/2003	3/13/2003	4/4/2003	5/6/2003	6/17/2003
TECHNICIAN:	C-FAWD	C-FAWD	M-SOLIMAN	C-FERRITO	WALASSON	M-SOLIMAN
WATER						
RW-1 Flow (gpm)	82.82	83.2	77.2	77.45	77.8	70.74
RW-1 Total (gallons)	40,393,160	44,178,624	47,493,112	49,886,480	53,345,440	57,731,644
RW-2 Flow (gpm)	NG	NG	NG	82.62	79.27	74.32
RW-2 Total (gallons)	NG	NG	NG	4,248,139	46,189,696	50,803,184
RW-1 Pressure (psi)	20	16	20	20	15	19
RW-2 Pressure (psi)	NG	NG	NG	20	20	15
Combined Pressure (psi)	13	13	13	13	13	13
P-1 Pressure (psi)	12	12	12	13	15	13
P-2 Pressure (psi)	12	2	4	13	18	15
Filter in Pressure (psi)	11	4	22	15	18	19
Filter out Pressure (psi)	22	2	13	10	10	9
Effluent Flow (gpm)	84.2	66.5	163.9	155.19	151.41	144.54
Effluent Total (gallons)	81,289,488	84,887,344	88,056,612	91,505,690	98,619,736	107,521,888
AIR						
Air Flow (IWC)	0.9	0.9	0.9	0.9		0.74
Midfluent Vacuum (IWC)	0	0	0	0		11.5
Blower Influent Vacuum (IWC)	9	6	12	12		11
Blower Effluent Pressure (IWC)	5	5	5	5		6
Carbon 1 Pressure (IWC)	5	6	5	6	3	5.5
Carbon 1 Temperature (F)	60	60	60	60	62	78
Carbon 2 Pressure (IWC)	3	3	5	3	5	3
Carbon 2 Temperature (F)	60	50	60	56	62	78
NOTES						
Cartridge Filter Bypassed	N	N	N	N		
Lead Carbon Changeout	N	N	N	Y	Y	N
Lag Carbon Changeout	N	N	N	N	Y	N
Water in Sump	Y	Y	N	N	N	
Acid Wash Performed	N	N	Y	N	Y	N
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	N	N	N	N	N	N

Table 3. OPERATION & MAINTENANCE FORM, Active Industrial Uniform Site, Lindenhurst, New York, NYSDEC Contract No. D004134.

DATE:	7/11/2003	8/12/2003	9/5/2003	10/3/2003	11/6/2003	12/20.03
TECHNICIAN:	WALASSON	CF & CB	CF	CF &KC	CF	CF
WATER						
RW-1 Flow (gpm)	93.99	82.4	85.6	83.7	83.6	89.9
RW-1 Total (gallons)	59,654,928	63,701,788	65,761,244	69,144,560	72,252,776	76,290,896
RW-2 Flow (gpm)	Off	77.3	77	76.3	75.9	78.1
RW-2 Total (gallons)	Off	53,981,556	56,215,644	59,276,352	62,109,224	654,706,672
RW-1 Pressure (psi)	20	22	21	21	21	19
RW-2 Pressure (psi)	Off	16	15	15	15	15
Combined Pressure (psi)	13	14	13	14	13	14
P-1 Pressure (psi)	13	13	14	13	13	14
P-2 Pressure (psi)	4	18	16	16	16	16
Filter in Pressure (psi)	7	23	18	20	11.5	24
Filter out Pressure (psi)	0	12	13	12	17	12
Effluent Flow (gpm)	94.21	161.5	160.33	159	159.2	163.2
Effluent Total (gallons)	110,389,496	116,674,696	120,976,528	127,412,272	133,325,016	140,630,288
AIR						
Air Flow (IWC)	4	0.9	0.9	0.9	0.9	0.9
Midfluent Vacuum (IWC)	0	0	0	0	0	5
Blower Influent Vacuum (IWC)	12	10	12	12	12	10
Blower Effluent Pressure (IWC)	4	4	5	9	5	0
Carbon 1 Pressure (IWC)	5	6	6	6	7	5
Carbon 1 Temperature (F)	78	82	80	70	70	60
Carbon 2 Pressure (IWC)	3	3	3	3	3	3
Carbon 2 Temperature (F)	78	81	80	69	68	55
NOTES						
Cartridge Filter Bypassed						
Lead Carbon Changeout	Y	N	Y	Y	N	N
Lag Carbon Changeout	N	N	Y	Y	N	N
Water in Sump	N	Y	N	N	N	Y
Acid Wash Performed	Y	N	N	N	Y	N
Air Samples Collected	Y	Y	Y	Y	Y	Y
Water Samples Collected	Y	Y	Y	Y	Y	Y
Well Samples Collected	Y	N	N	N	N	N

Table 4. Summary of TO-14 Stack Vapor Sample Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Reporting Limit (ppb_v)	11/06/03 [Stack] (ppb_v)	12/20/03 [Stack] (ppb_v)
Freon 12	0.68/0.73	ND	ND
Freon 114	0.68/0.73	ND	ND
Vinyl Chloride	0.68/0.73	**4.6**	**4.3**
Bromomethane	0.68/0.73	ND	ND
Chloroethane	0.68/0.73	ND	ND
Freon 11	0.68/0.73	ND	ND
1,1-Dichloroethene	0.68/0.73	ND	**2.0**
Freon 113	0.68/0.73	ND	ND
Methylene Chloride	0.68/0.73	ND	ND
1,1-Dichloroethane	0.68/0.73	ND	**5.4**
cis-1,2-Dichloroethene	0.68/0.73	ND	**200**
Chloroform	0.68/0.73	ND	ND
1,1,1-Trichloroethane	0.68/0.73	ND	**2.0**
Carbon Tetrachloride	0.68/0.73	ND	ND
Benzene	0.68/0.73	ND	ND
1,2-Dichloroethane	0.68/0.73	ND	ND
Trichloroethene	0.68/0.73	ND	**1.2**
1,2-Dichloropropane	0.68/0.73	ND	ND
cis-1,3-Dichloropropene	0.68/0.73	ND	ND
Toluene	0.68/0.73	**0.77**	ND
trans-1,3-Dichloropropene	0.68/0.73	ND	ND
1,1,2-Trichloroethane	0.68/0.73	ND	ND
Tetrachloroethene	0.68/0.73	ND	ND
Ethylene Dibromide	0.68/0.73	ND	ND
Chlorobenzene	0.68/0.73	ND	ND
Ethyl Benzene	0.68/0.73	ND	ND
m,p-Xylene	0.68/0.73	ND	ND
o-Xylene	0.68/0.73	ND	ND
Styrene	0.68/0.73	ND	ND
1,1,2,2-Tetrachloroethane	0.68/0.73	ND	ND
1,3,5-Trimethylbenzene	0.68/0.73	ND	ND
1,2,4-Trimethylbenzene	0.68/0.73	ND	ND
1,3-Dichlorobenzene	0.68/0.73	ND	ND
1,4-Dichlorobenzene	0.68/0.73	ND	ND
1,2-Dichlorobenzene	0.68/0.73	ND	ND
Chloromethane	2.7/2.9	ND	ND
1,2,4-Trichlorobenzene	2.7/2.9	ND	ND
Hexachlorobutadiene	2.7/2.9	ND	ND

Table 4. Summary of TO-14 Stack Vapor Sample Data, October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Reporting Limit (ppb_v)	11/06/03 [Stack] (ppb_v)	12/20/03 [Stack] (ppb_v)
Propylene	2.7/2.9	ND	ND
1,3 Butadiene	2.7/2.9	ND	ND
Acetone	2.7/2.9	ND	ND
Carbon Disulfide	2.7/2.9	ND	ND
2-Propanol	2.7/2.9	ND	ND
trans-1,2-Dichloroethene	2.7/2.9	ND	ND
Vinyl Acetate	2.7/2.9	ND	ND
2-Butanone (Methyl Ethyl Ketone)	2.7/2.9	ND	ND
Hexane	2.7/2.9	ND	ND
Tetrahydrofuran	2.7/2.9	ND	ND
Cyclohexane	2.7/2.9	ND	ND
1,4-Dioxane	2.7/2.9	ND	ND
Bromodichloromethane	2.7/2.9	ND	ND
4-Methyl-2-pentanone	2.7/2.9	ND	ND
2-Hexanone	2.7/2.9	ND	ND
Dibromochloromethane	2.7/2.9	ND	ND
Bromoform	2.7/2.9	ND	ND
4-Ethyltoluene	2.7/2.9	ND	ND
Ethanol	2.7/2.9	ND	ND
Methyl tert-butyl Ether	2.7/2.9	ND	ND
Heptane	2.7/2.9	ND	ND
TOTAL VOCS:		**5.37 ppb_v** **0.005 ppm_v**	**214.90 ppb_v** **0.215 ppm_v**

ND Compound not detected.
ppb_v Parts per billion by volume.
ppm_v Parts per million by volume.
VOCs Volatile organic compounds.

Table 5. Summary of Vapor Effluent Discharge Rates October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Cas. No	Detection Limit (ppb_v)	**NYSDEC Permitted Effluent Limits (lbs/hr)**	11/6/03 Stack Concentration (ppbv)	Air Flow Rate (cfm)	VOC Emission Rate (lbs/hr)
Trichloroethene	79-01-6	0.68	0.006	ND	1355	---
Tetrachloroethene	127-18-4	0.68	0.007	ND	1355	—
c-1,2-Dichloroethene	156-59-2	0.68	0.003	9.1	1355	---
1,1,1-Trichloroethane	71-55-6	0.68	0.001	ND	1355	---
m-Xylene	108-38-3	0.68	0.001	ND	1355	---
p-Xylene	106-42-3	0.68	0.001	ND	1355	---
o-Xylene	95-47-6	0.68	0.001	ND	1355	---
Vinyl Chloride	75-01-4	0.68	0.014	4.6	1355	0.000062
Freon 12	NA	0.68	NL	ND	1355	---
Chloromethane	NA	2.7	NL	ND	1355	---
1,1-Dichloroethene	75-35-4	0.68	NL	ND	1355	---
Methylene Chloride	75-09-2	0.68	NL	ND	1355	---
1,1-Dichloroethane	75-34-3	0.68	NL	ND	1355	---
Toluene	108-88-3	0.68	NL	0.77	1355	0.000015
Acetone	67-64-1	2.7	NL	ND	1355	---
2-Butanone	78-93-3	2.7	NL	ND	1355	---
Tetrahydrofuran	109-99-9	2.7	NL	ND	1355	---
Ethanol	NA	2.7	NL	ND	1355	---
Total			0.034	14.5		0.000077

ND Compound not detected.
ppb_v Parts per billion by volume.
VOCs Volatile organic compounds.
NL No limit specified in permit application.
NA Not Applicable.

Table 5. Summary of Vapor Effluent Discharge Rates October and November 2003 Sampling Events, Active Industrial Uniform Site, 67 West Montauk Highway, Lindenhurst, New York, NYSDEC Contract No. D004134.

Compound	Cas. No	Detection Limit (ppb_v)	**NYSDEC Permitted Effluent Limits (lbs/hr)**	12/20/03 Stack Concentration (ppbv)	Air Flow Rate (cfm)	VOC Emission Rate (lbs/hr)
Trichloroethene	79-01-6	0.73	0.006	1.2	1202	0.000030
Tetrachloroethene	127-18-4	0.73	0.007	ND	1202	---
c-1,2-Dichloroethene	156-59-2	0.73	0.003	200	1202	**0.003684**
1,1,1-Trichloroethane	71-55-6	0.73	0.001	2	1202	---
m-Xylene	108-38-3	0.73	0.001	ND	1202	---
p-Xylene	106-42-3	0.73	0.001	ND	1202	---
o-Xylene	95-47-6	0.73	0.001	ND	1202	---
Vinyl Chloride	75-01-4	0.73	0.014	4.3	1202	0.000051
Freon 12	NA	0.73	NL	ND	1202	---
Chloromethane	NA	2.9	NL	ND	1202	---
1,1-Dichloroethene	75-35-4	0.73	NL	2	1202	0.000037
Methylene Chloride	75-09-2	0.73	NL	ND	1202	---
1,1-Dichloroethane	75-34-3	0.73	NL	5.4	1202	0.000102
Toluene	108-88-3	0.73	NL	ND	1202	---
Acetone	67-64-1	2.7	NL	ND	1202	---
2-Butanone	78-93-3	2.7	NL	ND	1202	---
Tetrahydrofuran	109-99-9	2.7	NL	ND	1202	---
Ethanol	NA	2.7	NL	ND	1202	---
Total			0.034	214.90		0.003904

ND Compound not detected.
ppb_v Parts per billion by volume.
VOCs Volatile organic compounds.
NL No limit specified in permit application.
NA Not Applicable.

Appendix A

Laboratory Analytical Results of
Process Vapor Samples
October and November 2003
Sampling Events
Active Industrial Uniform Site
67 West Montauk Highway
Lindenhurst, New York, NYSDEC
Contract No. D004134

AIR TOXICS LTD.

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

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E-mail to:samplereceiving@airtoxics.com

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0311271

Work Order Summary

CLIENT:	Mr. Eric Killenbeck Mactec, Inc. 14 Washington Road Building 1, Floor 1 Princeton Junction, NJ 08550	**BILL TO:**	Mr. Mark Soliman Bluewater Environmental 1610 New Highway Farmingdale, NY 11735
PHONE:	609-936-0700	**P.O. #**	
FAX:	215-860-5360	**PROJECT #**	02370-01830 Active
DATE RECEIVED:	11/14/03	**CONTACT:**	Betty Chu
DATE COMPLETED:	11/19/03		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	Stack	Modified TO-14A	0.5 "Hg
02A	Lab Blank	Modified TO-14A	NA
03A	CCV	Modified TO-14A	NA
04A	LCS	Modified TO-14A	NA

CERTIFIED BY: Linda L. Truman DATE: 11/26/03

Laboratory Director

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-14A
Bluewater Environmental
Workorder# 0311271

One 6 Liter Summa Canister sample was received on November 14, 2003. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	</= 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D
Sample Load Volume	400 mL	Varied to 200 mL

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: Stack

ID#: 0311271-01A

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

File Name:	**d111714**	**Date of Collection:**	**11/6/03**
Dil. Factor:	**1.36**	**Date of Analysis:**	**11/18/03 12:59 AM**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.68	3.4	Not Detected	Not Detected
Freon 114	0.68	4.8	Not Detected	Not Detected
Vinyl Chloride	0.68	1.8	4.6	12
Bromomethane	0.68	2.7	Not Detected	Not Detected
Chloroethane	0.68	1.8	Not Detected	Not Detected
Freon 11	0.68	3.9	Not Detected	Not Detected
1,1-Dichloroethene	0.68	2.7	Not Detected	Not Detected
Freon 113	0.68	5.3	Not Detected	Not Detected
Methylene Chloride	0.68	2.4	Not Detected	Not Detected
1,1-Dichloroethane	0.68	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.68	2.7	Not Detected	Not Detected
Chloroform	0.68	3.4	Not Detected	Not Detected
1,1,1-Trichloroethane	0.68	3.8	Not Detected	Not Detected
Carbon Tetrachloride	0.68	4.3	Not Detected	Not Detected
Benzene	0.68	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.68	2.8	Not Detected	Not Detected
Trichloroethene	0.68	3.7	Not Detected	Not Detected
1,2-Dichloropropane	0.68	3.2	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.68	3.1	Not Detected	Not Detected
Toluene	0.68	2.6	0.77	2.9
trans-1,3-Dichloropropene	0.68	3.1	Not Detected	Not Detected
1,1,2-Trichloroethane	0.68	3.8	Not Detected	Not Detected
Tetrachloroethene	0.68	4.7	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.68	5.3	Not Detected	Not Detected
Chlorobenzene	0.68	3.2	Not Detected	Not Detected
Ethyl Benzene	0.68	3.0	Not Detected	Not Detected
m,p-Xylene	0.68	3.0	Not Detected	Not Detected
o-Xylene	0.68	3.0	Not Detected	Not Detected
Styrene	0.68	2.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.68	4.7	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.68	3.4	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.68	3.4	Not Detected	Not Detected
1,3-Dichlorobenzene	0.68	4.2	Not Detected	Not Detected
1,4-Dichlorobenzene	0.68	4.2	Not Detected	Not Detected
alpha-Chlorotoluene	0.68	3.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.68	4.2	Not Detected	Not Detected
Chloromethane	2.7	5.7	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.7	20	Not Detected	Not Detected
Hexachlorobutadiene	2.7	29	Not Detected	Not Detected
Propylene	2.7	4.8	Not Detected	Not Detected
1,3-Butadiene	2.7	6.1	Not Detected	Not Detected
Acetone	2.7	6.6	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Stack

ID#: 0311271-01A

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

File Name:	**d111714**	**Date of Collection:**	**11/6/03**
Dil. Factor:	**1.36**	**Date of Analysis:**	**11/18/03 12:59 AM**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.7	8.6	Not Detected	Not Detected
2-Propanol	2.7	6.8	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.7	11	Not Detected	Not Detected
Vinyl Acetate	2.7	9.7	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	8.2	Not Detected	Not Detected
Hexane	2.7	9.7	Not Detected	Not Detected
Tetrahydrofuran	2.7	8.2	Not Detected	Not Detected
Cyclohexane	2.7	9.5	Not Detected	Not Detected
1,4-Dioxane	2.7	10	Not Detected	Not Detected
Bromodichloromethane	2.7	18	Not Detected	Not Detected
4-Methyl-2-pentanone	2.7	11	Not Detected	Not Detected
2-Hexanone	2.7	11	Not Detected	Not Detected
Dibromochloromethane	2.7	24	Not Detected	Not Detected
Bromoform	2.7	28	Not Detected	Not Detected
4-Ethyltoluene	2.7	14	Not Detected	Not Detected
Ethanol	2.7	5.2	Not Detected	Not Detected
Methyl tert-butyl ether	2.7	10	Not Detected	Not Detected
Heptane	2.7	11	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

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

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SAMPLE NAME: Lab Blank

ID#: 0311271-02A

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

File Name:	**d111706c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/17/03 06:48 PM**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
Chloromethane	2.0	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0311271-02A

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

File Name:	**d111706c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/17/03 06:48 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311271-03A

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

File Name:	**d111702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/17/03 03:57 PM**	

Compound	%Recovery
Freon 12	87
Freon 114	90
Vinyl Chloride	93
Bromomethane	112
Chloroethane	98
Freon 11	88
1,1-Dichloroethene	87
Freon 113	89
Methylene Chloride	89
1,1-Dichloroethane	89
cis-1,2-Dichloroethene	87
Chloroform	89
1,1,1-Trichloroethane	90
Carbon Tetrachloride	93
Benzene	88
1,2-Dichloroethane	89
Trichloroethene	88
1,2-Dichloropropane	88
cis-1,3-Dichloropropene	93
Toluene	87
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	89
Tetrachloroethene	88
1,2-Dibromoethane (EDB)	94
Chlorobenzene	87
Ethyl Benzene	89
m,p-Xylene	89
o-Xylene	88
Styrene	98
1,1,2,2-Tetrachloroethane	87
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	85
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	82
Chloromethane	93
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	85
Propylene	94
1,3-Butadiene	88
Acetone	91

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311271-03A

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

File Name:	**d111702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/17/03 03:57 PM**	

Compound	%Recovery
Carbon Disulfide	93
2-Propanol	92
trans-1,2-Dichloroethene	93
Vinyl Acetate	95
2-Butanone (Methyl Ethyl Ketone)	92
Hexane	88
Tetrahydrofuran	89
Cyclohexane	88
1,4-Dioxane	94
Bromodichloromethane	95
4-Methyl-2-pentanone	94
2-Hexanone	96
Dibromochloromethane	100
Bromoform	101
4-Ethyltoluene	92
Ethanol	96
Methyl tert-butyl ether	92
Heptane	89

Container Type: NA - Not Applicable

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

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0311271-04A

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

File Name:	**d111703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/17/03 04:38 PM**	

Compound	%Recovery
Freon 12	92
Freon 114	95
Vinyl Chloride	98
Bromomethane	118
Chloroethane	103
Freon 11	85
1,1-Dichloroethene	81
Freon 113	85
Methylene Chloride	86
1,1-Dichloroethane	78
cis-1,2-Dichloroethene	88
Chloroform	85
1,1,1-Trichloroethane	85
Carbon Tetrachloride	93
Benzene	92
1,2-Dichloroethane	89
Trichloroethene	92
1,2-Dichloropropane	88
cis-1,3-Dichloropropene	93
Toluene	88
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	88
Tetrachloroethene	93
1,2-Dibromoethane (EDB)	85
Chlorobenzene	87
Ethyl Benzene	87
m,p-Xylene	82
o-Xylene	80
Styrene	103
1,1,2,2-Tetrachloroethane	82
1,3,5-Trimethylbenzene	72
1,2,4-Trimethylbenzene	69 Q
1,3-Dichlorobenzene	78
1,4-Dichlorobenzene	74
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	75
Chloromethane	96
1,2,4-Trichlorobenzene	73
Hexachlorobutadiene	70
Propylene	96
1,3-Butadiene	87
Acetone	90

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0311271-04A

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

File Name:	**d111703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/17/03 04:38 PM**	

Compound	%Recovery
Carbon Disulfide	92
2-Propanol	92
trans-1,2-Dichloroethene	96
Vinyl Acetate	94
2-Butanone (Methyl Ethyl Ketone)	94
Hexane	85
Tetrahydrofuran	89
Cyclohexane	86
1,4-Dioxane	94
Bromodichloromethane	87
4-Methyl-2-pentanone	91
2-Hexanone	86
Dibromochloromethane	92
Bromoform	78
4-Ethyltoluene	74
Ethanol	96
Methyl tert-butyl ether	92
Heptane	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

CHAIN-OF-CUSTODY RECORD

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Contact Person: Mark Soliman
Company: Blue water Environmental Inc.
Address: 1610 New Hwy City: Farmingdale State: NY Zip: 11735
Phone: 631 2491872 xt-266 FAX: 631 752 3008
Collected By: Signature: Chad [signature]

Project info:
P.O. #
Project #: 02370-0183
Project Name: ACTive

Turn Around Time:
☒ Normal
☐ Rush ______ Specify

mw 11.153

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	STACK	11/6/03 • 2pm	TO-14	NOT Recorded		0.5"Hg

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Chad [signature] 11/6/03 • 2pm	D. [signature] 11/14/03 1000

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact? Yes No None	Work Order #
	FedEx	791060465188	DU	—	Good	None (circled)	0311271

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

This electronic report includes the following:

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

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

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Hours 8:00 A.M to 6:00 P.M. Pacific
E-mail to:samplereceiving@airtoxics.com

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0401023

Work Order Summary

CLIENT:	Mr. Eric Killenbeck Mactec, Inc. 14 Washington Road Building 1, Floor 1 Princeton Junction, NJ 08550	**BILL TO:**	Mr. Mark Soliman Bluewater Environmental 1610 New Highway Farmingdale, NY 11735
PHONE:	609-936-0700	**P.O. #**	02370-01830
FAX:	215-860-5360	**PROJECT #**	02370-01830 Active
DATE RECEIVED:	1/5/04	**CONTACT:**	Betty Chu
DATE COMPLETED:	1/9/04		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	Stack	Modified TO-14A	2.5 "Hg
02A	Lab Blank	Modified TO-14A	NA
03A	CCV	Modified TO-14A	NA
04A	LCS	Modified TO-14A	NA

CERTIFIED BY: Linda A. Truman DATE: 01/09/04

Laboratory Director

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-14A
Bluewater Environmental
Workorder# 0401023

One 6 Liter Summa Canister sample was received on January 05, 2004. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	</= 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D
Sample Load Volume	400 mL	Varied to 200 mL

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: Stack

ID#: 0401023-01A

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

File Name:	**d010726**	**Date of Collection:**	**12/20/03**
Dil. Factor:	**1.46**	**Date of Analysis:**	**1/8/04 03:34 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	Not Detected	3.7	Not Detected
Freon 114	0.73	Not Detected	5.2	Not Detected
Vinyl Chloride	0.73	4.3	1.9	11
Bromomethane	0.73	Not Detected	2.9	Not Detected
Chloroethane	0.73	Not Detected	2.0	Not Detected
Freon 11	0.73	Not Detected	4.2	Not Detected
1,1-Dichloroethene	0.73	2.0	2.9	8.1
Freon 113	0.73	Not Detected	5.7	Not Detected
Methylene Chloride	0.73	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.73	5.4	3.0	22
cis-1,2-Dichloroethene	0.73	200	2.9	800
Chloroform	0.73	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.73	2.0	4.0	11
Carbon Tetrachloride	0.73	Not Detected	4.7	Not Detected
Benzene	0.73	Not Detected	2.4	Not Detected
1,2-Dichloroethane	0.73	Not Detected	3.0	Not Detected
Trichloroethene	0.73	1.2	4.0	6.6
1,2-Dichloropropane	0.73	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.73	Not Detected	3.4	Not Detected
Toluene	0.73	Not Detected	2.8	Not Detected
trans-1,3-Dichloropropene	0.73	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Tetrachloroethene	0.73	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.73	Not Detected	5.7	Not Detected
Chlorobenzene	0.73	Not Detected	3.4	Not Detected
Ethyl Benzene	0.73	Not Detected	3.2	Not Detected
m,p-Xylene	0.73	Not Detected	3.2	Not Detected
o-Xylene	0.73	Not Detected	3.2	Not Detected
Styrene	0.73	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.73	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,2,4-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,3-Dichlorobenzene	0.73	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.73	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.73	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.73	Not Detected	4.5	Not Detected
Chloromethane	2.9	Not Detected	6.1	Not Detected
1,2,4-Trichlorobenzene	2.9	Not Detected	22	Not Detected
Hexachlorobutadiene	2.9	Not Detected	32	Not Detected
Propylene	2.9	Not Detected	5.1	Not Detected
1,3-Butadiene	2.9	Not Detected	6.6	Not Detected
Acetone	2.9	Not Detected	7.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Stack

ID#: 0401023-01A

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

File Name:	**d010726**	**Date of Collection:**	**12/20/03**
Dil. Factor:	**1.46**	**Date of Analysis:**	**1/8/04 03:34 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Disulfide	2.9	Not Detected	9.2	Not Detected
2-Propanol	2.9	Not Detected	7.3	Not Detected
trans-1,2-Dichloroethene	2.9	Not Detected	12	Not Detected
Vinyl Acetate	2.9	Not Detected	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.9	Not Detected	8.8	Not Detected
Hexane	2.9	Not Detected	10	Not Detected
Tetrahydrofuran	2.9	Not Detected	8.8	Not Detected
Cyclohexane	2.9	Not Detected	10	Not Detected
1,4-Dioxane	2.9	Not Detected	11	Not Detected
Bromodichloromethane	2.9	Not Detected	20	Not Detected
4-Methyl-2-pentanone	2.9	Not Detected	12	Not Detected
2-Hexanone	2.9	Not Detected	12	Not Detected
Dibromochloromethane	2.9	Not Detected	25	Not Detected
Bromoform	2.9	Not Detected	31	Not Detected
4-Ethyltoluene	2.9	Not Detected	14	Not Detected
Ethanol	2.9	Not Detected	5.6	Not Detected
Methyl tert-butyl ether	2.9	Not Detected	11	Not Detected
Heptane	2.9	Not Detected	12	Not Detected

Container Type: 6 Liter Summa Canister

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

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401023-02A

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

File Name:	**d010705d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/7/04 10:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.6	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Propylene	2.0	Not Detected	3.5	Not Detected
1,3-Butadiene	2.0	Not Detected	4.5	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401023-02A

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

File Name:	**d010705d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/7/04 10:43 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0401023-03A

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

File Name:	**d010702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/7/04 08:27 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	94
Vinyl Chloride	92
Bromomethane	117
Chloroethane	85
Freon 11	88
1,1-Dichloroethene	88
Freon 113	95
Methylene Chloride	91
1,1-Dichloroethane	86
cis-1,2-Dichloroethene	90
Chloroform	91
1,1,1-Trichloroethane	93
Carbon Tetrachloride	95
Benzene	92
1,2-Dichloroethane	93
Trichloroethene	99
1,2-Dichloropropane	97
cis-1,3-Dichloropropene	107
Toluene	89
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	92
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	101
Chlorobenzene	93
Ethyl Benzene	87
m,p-Xylene	87
o-Xylene	84
Styrene	105
1,1,2,2-Tetrachloroethane	89
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	89
Chloromethane	86
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	86
Propylene	96
1,3-Butadiene	86
Acetone	93

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0401023-03A

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

File Name:	**d010702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/7/04 08:27 AM**	

Compound	%Recovery
Carbon Disulfide	95
2-Propanol	93
trans-1,2-Dichloroethene	93
Vinyl Acetate	88
2-Butanone (Methyl Ethyl Ketone)	97
Hexane	88
Tetrahydrofuran	95
Cyclohexane	90
1,4-Dioxane	99
Bromodichloromethane	99
4-Methyl-2-pentanone	103
2-Hexanone	103
Dibromochloromethane	105
Bromoform	110
4-Ethyltoluene	94
Ethanol	90
Methyl tert-butyl ether	94
Heptane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401023-04A

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

File Name:	**d010703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/7/04 09:08 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	101
Vinyl Chloride	99
Bromomethane	116
Chloroethane	90
Freon 11	88
1,1-Dichloroethene	85
Freon 113	90
Methylene Chloride	79
1,1-Dichloroethane	80
cis-1,2-Dichloroethene	90
Chloroform	86
1,1,1-Trichloroethane	85
Carbon Tetrachloride	96
Benzene	98
1,2-Dichloroethane	93
Trichloroethene	96
1,2-Dichloropropane	94
cis-1,3-Dichloropropene	99
Toluene	94
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	91
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	88
Chlorobenzene	90
Ethyl Benzene	90
m,p-Xylene	85
o-Xylene	84
Styrene	106
1,1,2,2-Tetrachloroethane	87
1,3,5-Trimethylbenzene	76
1,2,4-Trimethylbenzene	73
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	81
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	83
Chloromethane	87
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	82
Propylene	95
1,3-Butadiene	86
Acetone	99

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401023-04A

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

File Name:	**d010703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/7/04 09:08 AM**	

Compound	%Recovery
Carbon Disulfide	95
2-Propanol	93
trans-1,2-Dichloroethene	99
Vinyl Acetate	81
2-Butanone (Methyl Ethyl Ketone)	98
Hexane	86
Tetrahydrofuran	93
Cyclohexane	87
1,4-Dioxane	100
Bromodichloromethane	91
4-Methyl-2-pentanone	100
2-Hexanone	93
Dibromochloromethane	98
Bromoform	86
4-Ethyltoluene	78
Ethanol	80
Methyl tert-butyl ether	92
Heptane	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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

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

Page 1 of 1

Contact Person: Mark Soliman
Company: Bluewater Environmental, Inc.
Address: 1610 New Hwy City: Farmingdale State: NY Zip: 11735
Phone: (631) 249 1872 x.266 FAX: (631) 752-3008
Collected By: Signature: Charles Frost

Project info:
P.O. #: 02370-01830
Project #: 02370-01830
Project Name: Active

Turn Around Time:
☑ Normal
☐ Rush ______ Specify

mw 1/6/03

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	Stack	12/20/03 7 am	TO-14	NOT Recorded		25"Hg

Relinquished By: (Signature) Date/Time: Charles Frost 12/20/03 ~ 9am
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time: Laurel Thomas ATL 1/5/04 940
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	7917 4358 2124	[illegible]	—	Good	Yes No (None)	0401001 0401023

Form 1293 rev. 09

MICROSEEPS

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway

Farmington, NY 11735

Order #: P0311277
Report Date: 11/26/03
Client Proj Name: Active
Client Proj #: 02370-01830

Laboratory Results

Total pages in data package: 3

Lab Sample #	Client Sample ID
P0311277-01	AIR TO VP GAC

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Rebecca J. Hanna

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

NOTES:SAMPLE TAKEN 11/06/03 - NOT RECEIVED UNTIL 11/14/03.

Order #: P0311277
Report Date: 11/26/03
Client Proj Name: Active
Client Proj #: 02370-01830

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway
Farmington, NY 11735

Lab Sample #: P0311277-01

Sample Description	Matrix	Sampled Date/Time	Received
AIR TO VP GAC	Vapor	06 Nov. 03 14:00	17 Nov. 03

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
Benzene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
Bromomethane and Chloroethane	<1.0	1.0	PPMV	AM4.02	rw	11/19/03
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	11/19/03
cis-1,2-Dichloroethene	0.14	0.010	PPMV	AM4.02	rw	11/19/03
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	11/19/03
Tetrachloroethene	0.16	0.0050	PPMV	AM4.02	rw	11/19/03
Toluene	<0.10	0.10	PPMV	AM4.02	rw	11/19/03
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	11/19/03
Trichloroethene	0.048	0.0050	PPMV	AM4.02	rw	11/19/03
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	11/19/03
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	11/19/03

N - NELAC certified analysis

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 — **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** — Fax No. : (412) 826-3433

Company : Blue Water Environmental, Inc
Co. Address : 1610 New Hwy Farmingdale NY 11735
Proj. Manager: Mark Soliman
Proj. Location: Active - 67w Montauk Hwy Lindenhurst NY
Proj. Number: 02370-01830
Phone # : 631-249-1872 xt 266 Fax # : 631 752 3008

Sampler's signature : _____

Results to : M. Soliman
Invoice to : M. Soliman

Cooler ID	Cooler Temp.

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Parameters Requested: EPA 601/602 VOCs	Remarks
01	Air Sample	11/6/03	2:00pm		X	2		Standard T/A

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Charles Trost	Blue Water	11/6/03	2:00pm				
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

MICROSEEPS

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway

Farmington, NY 11735

Order #: P0312590
Report Date: 01/09/04
Client Proj Name: Active
Client Proj #: 02370-01830

Laboratory Results

Total pages in data package: 3

Lab Sample #	Client Sample ID
P0312590-01	INFLUENT

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

NOTES:

J0412910

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 Fax No.: (412) 826-3433

Company: Blue Water Environmental inc.

Co. Address: 1610 New Hwy Farmingdale NY 11735

Proj. Manager: Mark Soliman

Proj. Location: Active 67 W Montauk Hwy Lindenhurst NY

Proj. Number: 02370-01030

Phone #: 631 249 1872 x266 Fax #: 631 752-3008

Sampler's signature: Charles Frost

Results to: M. Soliman

Invoice to: M. Soliman

Cooler ID	Cooler Temp.

	Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Parameters Requested: EPA 601/602 VOCs								Remarks
01	Influent	Air → Vapor	12/20/03	9 am		X	2	X								Standard T/A

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Charles Frost	BWE	12/20/03	9 am	R. Welch	Microseeps	12/23/03	[illegible]

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Order #: P0312590
Report Date: 01/09/04
Client Proj Name: Active
Client Proj #: 02370-01830

Client Name: Blue Water Environmental
Contact: Mark Soliman
Address: 1610 New Highway
Farmington, NY 11735

Lab Sample #: P0312590-01

Sample Description	Matrix	Sampled Date/Time	Received
INFLUENT	Vapor	20 Dec. 03 9:00	31 Dec. 03

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
RiskAnalysis						
Vapor						
1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
1,1,2,2-Tetrachloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
1,1,2-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
1,1-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
1,1-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
1,2-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
1,2-Dichloroethane	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
1,2-Dichloropropane	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
1,3-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
1,4-Dichlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
Benzene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
Bromodichloromethane	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
Bromoform	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
Bromomethane and Chloroethai	<1.0	1.0	PPMV	AM4.02	rw	1/6/04
Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
Chlorobenzene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
Chlorodibromomethane	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
Chloroform	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
Chloromethane	<1.0	1.0	PPMV	AM4.02	rw	1/6/04
cis-1,2-Dichloroethene	0.13	0.010	PPMV	AM4.02	rw	1/6/04
cis-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
Ethylbenzene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
Methylene Chloride	<2.0	2.0	PPMV	AM4.02	rw	1/6/04
Tetrachloroethene	0.15	0.0050	PPMV	AM4.02	rw	1/6/04
Toluene	<0.10	0.10	PPMV	AM4.02	rw	1/6/04
trans-1,2-Dichloroethene	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
trans-1,3-Dichloropropene	<0.010	0.010	PPMV	AM4.02	rw	1/6/04
Trichloroethene	0.058	0.0050	PPMV	AM4.02	rw	1/6/04
Trichlorofluoromethane	<0.0050	0.0050	PPMV	AM4.02	rw	1/6/04
Vinyl Chloride	<1.0	1.0	PPMV	AM4.02	rw	1/6/04

N - NELAC certified analysis

Appendix B

Laboratory Analytical Results of
Process Water Samples
October and November 2003
Sampling Events
Active Industrial Uniform Site
67 West Montauk Highway
Lindenhurst, New York, NYSDEC
Contract No. D004134

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, New York 11735

Phone - 631-249-1456 Fax - 631-249-8344

ETL Chain of Custody: P6902				
Project: Active Industrial				
Address: 67 West Montauk Hwy, L	Collected Date:		11/06/03	11/06/03
	Sample Type:		Grab	Grab
	Sample Name:		Influent	Effluent
Analysis	Analyte	Units		
Volatiles - EPA 8260B	Dichlorodifluoromethane	ppb	<0.85	<0.17
Volatiles - EPA 8260B	Chlorodifluoromethane	ppb	<0.75	<0.15
Volatiles - EPA 8260B	Chloromethane	ppb	<0.70	<0.14
Volatiles - EPA 8260B	Vinyl Chloride	ppb	<0.55	<0.11
Volatiles - EPA 8260B	Bromomethane	ppb	<0.75	<0.15
Volatiles - EPA 8260B	Chloroethane	ppb	<1.40	<0.28
Volatiles - EPA 8260B	Trichlorofluoromethane	ppb	<0.65	<0.13
Volatiles - EPA 8260B	1,1,2-Trichlorotrifluoroethane	ppb	<0.95	<0.19
Volatiles - EPA 8260B	1,1-Dichloroethene	ppb	<0.80	<0.16
Volatiles - EPA 8260B	Acetone	ppb	<7.90	<1.58
Volatiles - EPA 8260B	Carbon disulfide	ppb	<0.65	<0.13
Volatiles - EPA 8260B	Methylene Chloride	ppb	<0.80	<0.16
Volatiles - EPA 8260B	t-1,2-Dichloroethene	ppb	4.28	<0.15
Volatiles - EPA 8260B	Methyl t-butyl ether	ppb	<0.37	1.31
Volatiles - EPA 8260B	1,1-Dichloroethane	ppb	<0.47	<0.095
Volatiles - EPA 8260B	2,2-Dichloropropane	ppb	<1.65	<0.33
Volatiles - EPA 8260B	c-1,2-Dichloroethene	ppb	63.4	<0.17
Volatiles - EPA 8260B	2-Butanone	ppb	<2.30	<0.46
Volatiles - EPA 8260B	Bromochloromethane	ppb	<0.70	<0.14
Volatiles - EPA 8260B	Chloroform	ppb	<0.36	<0.072
Volatiles - EPA 8260B	1,1,1-Trichloroethane	ppb	<0.80	<0.16
Volatiles - EPA 8260B	Carbon Tetrachloride	ppb	<0.60	<0.12
Volatiles - EPA 8260B	1,1-Dichloropropene	ppb	<0.80	<0.16
Volatiles - EPA 8260B	Benzene	ppb	<0.55	<0.11
Volatiles - EPA 8260B	1,2-Dichloroethane	ppb	<0.60	<0.12
Volatiles - EPA 8260B	Trichloroethene	ppb	27.0	<0.16
Volatiles - EPA 8260B	1,2-Dichloropropane	ppb	<0.55	<0.11
Volatiles - EPA 8260B	Dibromomethane	ppb	<0.85	<0.17
Volatiles - EPA 8260B	Bromodichloromethane	ppb	<0.55	<0.11
Volatiles - EPA 8260B	2-Chloroethylvinylether	ppb	<0.95	<0.19
Volatiles - EPA 8260B	c-1,3-Dichloropropene	ppb	<0.45	<0.090
Volatiles - EPA 8260B	4-Methyl-2-pentanone	ppb	<4.05	<0.81
Volatiles - EPA 8260B	Toluene	ppb	<0.46	<0.092
Volatiles - EPA 8260B	t-1,3-Dichloropropene	ppb	<0.65	<0.13
Volatiles - EPA 8260B	1,1,2-Trichloroethane	ppb	<0.70	<0.14
Volatiles - EPA 8260B	Tetrachloroethene	ppb	96.4	<0.39
Volatiles - EPA 8260B	1,3-Dichloropropane	ppb	<0.50	<0.099
Volatiles - EPA 8260B	2-Hexanone	ppb	<5.05	<1.01
Volatiles - EPA 8260B	Dibromochloromethane	ppb	<0.55	<0.11
Volatiles - EPA 8260B	1,2-Dibromoethane	ppb	<0.55	<0.11
Volatiles - EPA 8260B	Chlorobenzene	ppb	<0.65	<0.13
Volatiles - EPA 8260B	1,1,1,2-Tetrachloroethane	ppb	<0.55	<0.11
Volatiles - EPA 8260B	Ethylbenzene	ppb	<0.55	<0.11
Volatiles - EPA 8260B	m,p-xylene	ppb	<1.65	<0.33
Volatiles - EPA 8260B	o-xylene	ppb	<0.65	<0.13
Volatiles - EPA 8260B	Styrene	ppb	<4.85	<0.97
Volatiles - EPA 8260B	Bromoform	ppb	<0.70	<0.14
Volatiles - EPA 8260B	Isopropylbenzene	ppb	<0.49	<0.097
Volatiles - EPA 8260B	Bromobenzene	ppb	<0.36	<0.072
Volatiles - EPA 8260B	1,1,2,2-Tetrachloroethane	ppb	<0.44	<0.088
Volatiles - EPA 8260B	n-Propylbenzene	ppb	<0.60	<0.12

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, New York 11735

Phone - 631-249-1456 Fax - 631-249-8344

ETL Chain of Custody: P6902				
Project: Active Industrial				
Address: 67 West Montauk Hwy, L	Collected Date:		11/06/03	11/06/03
	Sample Type:		Grab	Grab
	Sample Name:		Influent	Effluent
Analysis	Analyte	Units		
Volatiles - EPA 8260B	1,2,3-Trichloropropane	ppb	<1.40	<0.28
Volatiles - EPA 8260B	p-Ethyltoluene	ppb	<0.60	<0.12
Volatiles - EPA 8260B	1,3,5-Trimethylbenzene	ppb	<0.47	<0.095
Volatiles - EPA 8260B	2-Chlorotoluene	ppb	<0.75	<0.15
Volatiles - EPA 8260B	4-Chlorotoluene	ppb	<0.70	<0.14
Volatiles - EPA 8260B	tert-Butylbenzene	ppb	<0.75	<0.15
Volatiles - EPA 8260B	1,2,4-Trimethylbenzene	ppb	<0.55	<0.11
Volatiles - EPA 8260B	sec-Butylbenzene	ppb	<0.55	<0.11
Volatiles - EPA 8260B	4-Isopropyltoluene	ppb	<0.60	<0.12
Volatiles - EPA 8260B	1,3-Dichlorobenzene	ppb	<0.41	<0.083
Volatiles - EPA 8260B	1,4-Dichlorobenzene	ppb	<0.34	<0.068
Volatiles - EPA 8260B	1,2-Dichlorobenzene	ppb	<0.55	<0.11
Volatiles - EPA 8260B	p-Diethylbenzene	ppb	<0.55	<0.11
Volatiles - EPA 8260B	n-Butylbenzene	ppb	<0.44	<0.088
Volatiles - EPA 8260B	1,2,4,5-Tetramethylbenzene	ppb	<0.60	<0.12
Volatiles - EPA 8260B	1,2-Dibromo-3-chloropropane	ppb	<0.75	<0.15
Volatiles - EPA 8260B	1,2,4-Trichlorobenzene	ppb	<0.65	<0.13
Volatiles - EPA 8260B	Hexachlorobutadiene	ppb	<1.85	<0.37
Volatiles - EPA 8260B	Naphthalene	ppb	<2.30	<0.46
Volatiles - EPA 8260B	1,2,3-Trichlorobenzene	ppb	<0.60	<0.12
Mercury by Method SW846 7470/7471-EPA 245	Mercury	ppm	NR	0.000055
TAL Metals by Method SW846 6010	Aluminum	ppm	NR	0.035
TAL Metals by Method SW846 6010	Antimony	ppm	NR	0.017
TAL Metals by Method SW846 6010	Arsenic	ppm	NR	0.033
TAL Metals by Method SW846 6010	Barium	ppm	NR	0.032
TAL Metals by Method SW846 6010	Beryllium	ppm	NR	0.0011
TAL Metals by Method SW846 6010	Cadmium	ppm	NR	<0.00030
TAL Metals by Method SW846 6010	Calcium	ppm	NR	77.4
TAL Metals by Method SW846 6010	Chromium	ppm	NR	0.0026
TAL Metals by Method SW846 6010	Cobalt	ppm	NR	0.00050
TAL Metals by Method SW846 6010	Copper	ppm	NR	<0.0029
TAL Metals by Method SW846 6010	Iron	ppm	NR	0.27
TAL Metals by Method SW846 6010	Lead	ppm	NR	<0.0017
TAL Metals by Method SW846 6010	Magnesium	ppm	NR	94.6
TAL Metals by Method SW846 6010	Manganese	ppm	NR	2.16
TAL Metals by Method SW846 6010	Nickel	ppm	NR	0.0014
TAL Metals by Method SW846 6010	Potassium	ppm	NR	40.2
TAL Metals by Method SW846 6010	Selenium	ppm	NR	0.023
TAL Metals by Method SW846 6010	Silver	ppm	NR	<0.0010
TAL Metals by Method SW846 6010	Sodium	ppm	NR	833
TAL Metals by Method SW846 6010	Thallium	ppm	NR	0.028
TAL Metals by Method SW846 6010	Vanadium	ppm	NR	<0.00050
TAL Metals by Method SW846 6010	Zinc	ppm	NR	0.0046
Alkalinity - EPA 310.1	Alkalinity as CaCO3	ppm	NR	73.0
Chemical Oxygen Demand (COD) - EPA 410.4	COD	ppm	NR	82.4
Residual Chlorine - Method 4500	Residual Chlorine	ppm	NR	ND
Total Dissolved Solids - 2540C	Total Dissolved Solids	mg/l	NR	2670
Total Suspended Solids - EPA 160.2/SM 2540D	Total Suspended Solids	mg/L	NR	<4.58

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, New York 11735

Phone - 631-249-1456 Fax - 631-249-8344

ETL Chain of Custody: P6981				
Project: Active Industrial				
Address: 67 West Montauk Hwy, L	Collected Date:		12/20/03	12/20/03
	Sample Type:		Grab	Grab
	Sample Name:		Influent	Effluent
Analysis	Analyte	Units		
Volatile Compounds - EPA 8260B	Dichlorodifluoromethane	ppb	<4.60	<0.17
Volatile Compounds - EPA 8260B	Chlorodifluoromethane	ppb	<2.10	<0.15
Volatile Compounds - EPA 8260B	Chloromethane	ppb	<2.80	<0.14
Volatile Compounds - EPA 8260B	Vinyl Chloride	ppb	<3.90	<0.11
Volatile Compounds - EPA 8260B	Bromomethane	ppb	<2.10	<0.15
Volatile Compounds - EPA 8260B	Chloroethane	ppb	<2.80	<0.28
Volatile Compounds - EPA 8260B	Trichlorofluoromethane	ppb	<3.80	<0.13
Volatile Compounds - EPA 8260B	1,1,2-Trichlorotrifluoroethane	ppb	<4.90	<0.19
Volatile Compounds - EPA 8260B	1,1-Dichloroethene	ppb	<2.90	<0.16
Volatile Compounds - EPA 8260B	Acetone	ppb	<17.3	<1.58
Volatile Compounds - EPA 8260B	Carbon disulfide	ppb	<2.00	<0.13
Volatile Compounds - EPA 8260B	Methylene Chloride	ppb	<2.80	<0.16
Volatile Compounds - EPA 8260B	trans-1,2-Dichloroethene	ppb	<2.40	<0.15
Volatile Compounds - EPA 8260B	Methyl t-butyl ether	ppb	<1.70	<0.074
Volatile Compounds - EPA 8260B	1,1-Dichloroethane	ppb	<2.60	<0.095
Volatile Compounds - EPA 8260B	2,2-Dichloropropane	ppb	<5.30	<0.33
Volatile Compounds - EPA 8260B	cis-1,2-Dichloroethene	ppb	70.9	<0.17
Volatile Compounds - EPA 8260B	2-Butanone	ppb	<16.8	<0.46
Volatile Compounds - EPA 8260B	Bromochloromethane	ppb	<3.30	<0.14
Volatile Compounds - EPA 8260B	Chloroform	ppb	<3.30	<0.072
Volatile Compounds - EPA 8260B	1,1,1-Trichloroethane	ppb	<2.30	<0.16
Volatile Compounds - EPA 8260B	Carbon Tetrachloride	ppb	<3.30	<0.12
Volatile Compounds - EPA 8260B	1,1-Dichloropropene	ppb	<4.30	<0.16
Volatile Compounds - EPA 8260B	Benzene	ppb	<1.10	<0.11
Volatile Compounds - EPA 8260B	1,2-Dichloroethane	ppb	<3.50	<0.12
Volatile Compounds - EPA 8260B	Trichloroethene	ppb	34.1	<0.16
Volatile Compounds - EPA 8260B	1,2-Dichloropropane	ppb	<2.80	<0.11
Volatile Compounds - EPA 8260B	Dibromomethane	ppb	<3.80	<0.17
Volatile Compounds - EPA 8260B	Bromodichloromethane	ppb	<2.30	<0.11
Volatile Compounds - EPA 8260B	2-Chloroethylvinylether	ppb	<8.40	<0.19
Volatile Compounds - EPA 8260B	cis-1,3-Dichloropropene	ppb	<2.60	<0.090
Volatile Compounds - EPA 8260B	4-Methyl-2-pentanone	ppb	<13.0	<0.81
Volatile Compounds - EPA 8260B	Toluene	ppb	<1.00	<0.092
Volatile Compounds - EPA 8260B	trans-1,3-Dichloropropene	ppb	<0.92	<0.13
Volatile Compounds - EPA 8260B	1,1,2-Trichloroethane	ppb	<4.30	<0.14
Volatile Compounds - EPA 8260B	Tetrachloroethene	ppb	121	<0.39
Volatile Compounds - EPA 8260B	1,3-Dichloropropane	ppb	<3.20	<0.099
Volatile Compounds - EPA 8260B	2-Hexanone	ppb	<17.4	<1.01
Volatile Compounds - EPA 8260B	Dibromochloromethane	ppb	<2.50	<0.11
Volatile Compounds - EPA 8260B	1,2-Dibromoethane	ppb	<3.10	<0.11
Volatile Compounds - EPA 8260B	Chlorobenzene	ppb	<2.40	<0.13
Volatile Compounds - EPA 8260B	1,1,1,2-Tetrachloroethane	ppb	<4.40	<0.11
Volatile Compounds - EPA 8260B	Ethylbenzene	ppb	<3.00	<0.11
Volatile Compounds - EPA 8260B	m,p-xylene	ppb	<5.60	<0.33
Volatile Compounds - EPA 8260B	o-xylene	ppb	<2.20	<0.13
Volatile Compounds - EPA 8260B	Styrene	ppb	<2.10	<0.97
Volatile Compounds - EPA 8260B	Bromoform	ppb	<3.50	<0.14
Volatile Compounds - EPA 8260B	Isopropylbenzene	ppb	<2.80	<0.097
Volatile Compounds - EPA 8260B	Bromobenzene	ppb	<2.50	<0.072

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, New York 11735

Phone - 631-249-1456 Fax - 631-249-8344

ETL Chain of Custody: P6981				
Project: Active Industrial				
Address: 67 West Montauk Hwy, L	Collected Date:		12/20/03	12/20/03
	Sample Type:		Grab	Grab
	Sample Name:		Influent	Effluent
Analysis	Analyte	Units		
Volatile Compounds - EPA 8260B	1,1,2,2-Tetrachloroethane	ppb	<3.10	<0.088
Volatile Compounds - EPA 8260B	n-Propylbenzene	ppb	<1.70	<0.12
Volatile Compounds - EPA 8260B	1,2,3-Trichloropropane	ppb	<8.80	<0.28
Volatile Compounds - EPA 8260B	p-Ethyltoluene	ppb	<1.70	<0.12
Volatile Compounds - EPA 8260B	1,3,5-Trimethylbenzene	ppb	<2.90	<0.095
Volatile Compounds - EPA 8260B	2-Chlorotoluene	ppb	<3.40	<0.15
Volatile Compounds - EPA 8260B	4-Chlorotoluene	ppb	<1.20	<0.14
Volatile Compounds - EPA 8260B	tert-Butylbenzene	ppb	<4.10	<0.15
Volatile Compounds - EPA 8260B	1,2,4-Trimethylbenzene	ppb	<2.30	<0.11
Volatile Compounds - EPA 8260B	sec-Butylbenzene	ppb	<1.80	<0.11
Volatile Compounds - EPA 8260B	p-Isopropyltoluene	ppb	<2.50	<0.12
Volatile Compounds - EPA 8260B	1,3-Dichlorobenzene	ppb	<2.50	<0.083
Volatile Compounds - EPA 8260B	1,4-Dichlorobenzene	ppb	<1.90	<0.068
Volatile Compounds - EPA 8260B	1,2-Dichlorobenzene	ppb	<1.10	<0.11
Volatile Compounds - EPA 8260B	p-Diethylbenzene	ppb	<2.00	<0.11
Volatile Compounds - EPA 8260B	n-Butylbenzene	ppb	<2.40	<0.088
Volatile Compounds - EPA 8260B	1,2,4,5-Tetramethylbenzene	ppb	<1.60	<0.12
Volatile Compounds - EPA 8260B	1,2-Dibromo-3-chloropropane	ppb	<8.70	<0.15
Volatile Compounds - EPA 8260B	1,2,4-Trichlorobenzene	ppb	<4.90	<0.13
Volatile Compounds - EPA 8260B	Hexachlorobutadiene	ppb	<7.10	<0.37
Volatile Compounds - EPA 8260B	Naphthalene	ppb	<2.70	<0.46
Mercury by Method SW846 7470/7471-EPA 245	Mercury	ppm	NR	<0.000020
TAL Metals by Method SW846 6010	Aluminum	ppm	NR	0.16
TAL Metals by Method SW846 6010	Antimony	ppm	NR	0.025
TAL Metals by Method SW846 6010	Arsenic	ppm	NR	0.024
TAL Metals by Method SW846 6010	Barium	ppm	NR	0.026
TAL Metals by Method SW846 6010	Beryllium	ppm	NR	0.0068
TAL Metals by Method SW846 6010	Cadmium	ppm	NR	<0.00030
TAL Metals by Method SW846 6010	Calcium	ppm	NR	74.3
TAL Metals by Method SW846 6010	Chromium	ppm	NR	0.012
TAL Metals by Method SW846 6010	Cobalt	ppm	NR	<0.00040
TAL Metals by Method SW846 6010	Copper	ppm	NR	<0.0029
TAL Metals by Method SW846 6010	Iron	ppm	NR	0.22
TAL Metals by Method SW846 6010	Lead	ppm	NR	0.033
TAL Metals by Method SW846 6010	Magnesium	ppm	NR	90.1
TAL Metals by Method SW846 6010	Manganese	ppm	NR	2.10
TAL Metals by Method SW846 6010	Nickel	ppm	NR	0.0010
TAL Metals by Method SW846 6010	Potassium	ppm	NR	26.6
TAL Metals by Method SW846 6010	Selenium	ppm	NR	0.047
TAL Metals by Method SW846 6010	Silver	ppm	NR	<0.0010
TAL Metals by Method SW846 6010	Sodium	ppm	NR	684
TAL Metals by Method SW846 6010	Thallium	ppm	NR	0.017
TAL Metals by Method SW846 6010	Vanadium	ppm	NR	0.0025
TAL Metals by Method SW846 6010	Zinc	ppm	NR	0.13
Alkalinity - EPA 310.1	Alkalinity as CaCO3	ppm	NR	48.0
Chemical Oxygen Demand (COD) - EPA 410.4	COD	ppm	NR	44.3
Residual Chlorine - Method 4500	Residual Chlorine	ppm	NR	ND
Total Dissolved Solids - 2540C	Total Dissolved Solids	mg/l	NR	2720
Total Suspended Solids - EPA 160.2/SM 2540D	Total Suspended Solids	mg/L	NR	<4.58