Sutton

ecology and environment engineering, p.c.

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September 3, 2004

Mr. David Chiusano, Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services
625 Broadway, 12th Floor
Albany, New York 12233 - 7010

Re: Mr. C's Dry Cleaners Site, Contract # D004180, Site # 9-15-157
August 2004 O&M Report

Dear Mr. Chiusano:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide this August 2004 Operation and Maintenance (O&M) Report for the Mr. C's Dry Cleaners Site, Site # 9-15-157, located in East Aurora, New York. Copies of weekly inspection reports from EEEPC's subcontractor O&M Enterprises, Inc. (OMEI) are provided as Attachment A. The analytical data packages from EEEPC's Analytical Services Center (ASC) from August 3, 2004 are provided as Attachment B. All analytical results for the report were analyzed at the lowest detection limits in accordance with the method standard. Remedial treatment system utility costs are provided as Attachment C.

In review of the on-site treatment system operation, EEEPC offers the following comments and highlights:

Operational Summary

- No treatment system shutdowns occurred between 7/27/04 to 8/23/04.
- The system was operational for 100% of the period between 7/27/04 and 8/23/04. Table 1 is provided to indicate the monthly operational time of the treatment equipment from the time of system startup.
- During the month of August a new totalizing flow meter was installed on the effluent discharge due to erratic readings and repair problems with the existing meter. The effluent totalizer readings from the old and new meters for the month of August 2004 indicates that approximately 1,289,960 gallons of groundwater were processed through the treatment system from 7/27/04 to 8/23/04. Table 2 provides a summary of groundwater volume treated during the August '04 monitoring period. Historical volumes are based on effluent totalizer readings provided by the contractor's weekly inspection forms.

Table 1
Mr. C's Dry Cleaners Site, Site # 9-15-157
Monthly Operational Uptime of the Treatment Equipment

Month (reporting hours)	Operational Up-time (%)[1]
September 2002 (576)[2]	100%
October 2002 (744)[2]	99.33%
November 2002 (720)[2]	93.41%
December 2002 (744)[2]	80.65%
January 2003 (744)[2]	59.15%
February 2003 (672)[2]	63.39%
March 2003 (744)[2]	82.39%
April 2003 (720)[2]	100%
May 2003 (744)[2]	100%
June 2003 (720)[2]	90.0%
July 2003 (744)[2]	100%
August 2003 (744)[2]	100%
September 1-4, 2003 (96)[2]	100%
October 22 -29, 2003 (168)[3]	100%
October 29 - November 25, 2003 (648)[3]	99%
November 25 - December 29, 2003 (816)[3]	100%
December 29, 2003 – January 26, 2004 (672)[3]	100%
January 26, 2004 – February 24, 2004 (696)[3]	100%
February 24, 2004 – March 29, 2004 (816)[3]	99.97%
March 29, 2004 – April 26, 2004 (672)[3]	99.70%
April 26, 2004 – May 24, 2004 (696)[3]	73.7%
May 24, 2004 – June 21, 2004 (696)[3]	99.43%
June 22, 2004 – July 26, 2004 (840)[3]	100%
July 27, 2004 – August 23, 2004 (672)[3]	100%

[1] Based on total hours for the month in the reporting period.
[2] Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.
[3] Treatment system operated by O&M Enterprises from 10/03 - present.

- Piezometer measurements were collected on 8/3/04 at the time of compliance sampling. These readings are provided in the weekly inspection reports provided in Attachment A.
- Filters in the bag filter unit were replaced on 8/3/04, 8/9/04, 8/16/04, and 8/23/04 with 100-micron and 50-micron filters in series. Flow rate dramatically increased as a result of the weekly filter changeout.
- New effluent flow meter installed on the treated water discharge on 8/16/04. Equipment and information to be updated in the O&M manuals.
- Alarm received by OMEI and EEEPC for high level alarm in the air stripper and influent equalization tank on 8/16/04. OMEI responded to the call in 3 hours and inspected the unit and reviewed the system cycle while on site. An electrical issue was discovered with having a loose contact switch from the

vibrations from other equipment in the building. Secured contact switch and system operated without alarms.

- Checklists for weekly system inspections from OMEI are provided as Attachment A for 8/3/04. 8/9/04, 8/16/04, and 8/23/04. Weekly system checks indicate that all operating equipment appear to be operating within normal ranges.
- A copy of the site utility costs from EEEPC operations starting October 2003 to date has been provided as Attachment C.

Analytical Summary - Groundwater

- EEEPC and OMEI personnel sampled influent and effluent groundwater on Tuesday, August 3, 2004. The groundwater samples were analyzed for volatile organic compounds (VOCs), metals, total suspended solids (TSS), total dissolved solids (TDS), and hardness. At the request of the Department the lowest possible method detection limits were used for the analysis.
- The results are discussed below. The VOCs detected in the influent groundwater during the August 3, 2004 sampling event were: 1,1,1-Trichloroethene (estimated value - 0.454 ug/L), 1,1-Dichloroethane (estimated value – 0.351 ug/L), 1,1-Dichloroethene (estimated value – 0.363 ug/L), Chloroform (estimated value – 0.201 ug/L), cis-1,2-Dichloroethene – 7.21 ug/L, Methyl tert-butyl ether (MTBE) – 23.2 ug/L, Tetrachloroethene (PCE) – 2210 ug/L, trans-1,2,-Dichloroethene – 1.07 ug/L, Trichloroethene – (estimated value – 61.9 ug/L), Vinyl chloride – (estimated value - 0.241 ug/L).
- The results of the VOCs contaminants detected in the effluent groundwater samples at the August 3, 2004 sampling event, also extracted at the lowest detection level of 1.0 ug/L indicated the contaminants found were Methyl tert-butyl ether (MTBE) – 3.36 ug/L and Tetrachloroethene at 4.02 µg/L. The concentration of PCE in the effluent groundwater did not exceed the Daily Maximum Effluent Discharge Compliance Concentration of 10.0 µg/L listed on Table 3.
- A comparison between the August 3, 2004 analytical values and the Effluent Limitation Requirements are set forth in Table 3.
- Approximately 24.73 pounds of VOCs were removed from the influent groundwater based on comparison with the effluent discharge of August 3, 2004. The calculated removal volumes are located in Table 4. These values are calculated based on effluent totalizer readings and assumes that non-detect values given in the analytical data package = 0 µg/L and that the monthly samples are indicative of the influent characteristics and system performance for the entire month of August 2004.
- The treated groundwater effluent results for metals were in compliance with the Effluent Limitation Requirements for the August 3, 2004 analyses except for iron. Total iron compliance is 600 ug/L with the results of 3730 ug/L for the month of August '04. Total Suspended Solids (TSS) was in compliance while Total Dissolved Solids (TDS) remained above the compliance concentration of 850 mg/L with an actual concentration of 1200 mg/L during the month of August 2004. EEEPC continues to believe that the elevated levels of TDS stem from the high metals concentrations in the groundwater,

which were not anticipated to be removed by the constructed treatment system. NYSDEC Region 9 is expecting to perform additional upgradient and down gradient stream sampling to evaluate TDS impacts on receiving waters at Tannery Brook stream.

Analytical Summary - Air

- EEEPC and OMEI personnel sampled the air stripper exhaust before and after the granular activated carbon (GAC) vessels on August 3, 2004. Air samples were collected using pre-evacuated and cleaned SUMMA canisters calibrated to continuously collect a one-hour sample.
- The only VOCs detected in the influent air samples were: cis-1,2-Dichloroethene (estimated value – 7.13 ppbv), Tetrachloroethene –1080 ppbv Trichloroethene – 46.7 ppbv), and Trichlorofluoromethane – (estimated value 1.14 ppbv).
- VOCs detected in the effluent air samples after GAC treatment were: 1,1-Dichloroethene – (estimated value – 0.560 ppbv), 1,2,4-Trimethylbenzene – (estimated value – 1.18 ppbv), Bromomethane – (estimated value – 0.461 ppbv), Chloromethane – (estimated value – 0.851 ppbv), cis-1,2-Dichloroethene – 13.8 ppbv, Methylene chloride – (estimated value – 1.80 ppbv), Tetrachloroethene – (estimated value – 2.83 ppbv), trans-1,2-Dichloroethene – (estimated value – 0.707 ppbv), and Trichlorofluoromethane – (estimated value – 0.685 ppbv). The results stated above and in Table 5 indicate approximately 98% VOC adsorption in the GAC vessels. Assuming that the blowers are only operational 50% of the total reporting period time, this efficiency calculates to approximately 3.08 lbs of VOCs removed during the August 2004 reporting period. All other VOCs below the detection limit assumes that non-detect values in the analytical data package equal 0 ppbv.

If you have any questions regarding the August 2004 O&M report summary submitted, please call me a 716-684-8060

Very Truly Yours,

Michael G. Steffan

Michael G. Steffan
Project Manager
Ecology and Environment Engineering, P. C.

cc: D. Miller, E&E-Buffalo w/o attachments
G. Jones, Site Representative, E&E - Buffalo - w/ attachments
G. Sutton, Region 9, NYSDEC - Buffalo w/ attachments
R. Becken, O&M Enterprises w/attachments
CTF- 000699.NY06.05

Table 2
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Monthly Process Water Volumes

Month	Actual Period	Gallons
September 2002[1]	9/5/02 - 10/2/02	4,362,477
October 2002[1]	10/2/02 - 11/4/02	4,290,429
November 2002[1]	11/4/02 - 12/2/02	3,326,126
December 2002[1]	12/2/02 - 1/7/03	3,349,029
January 2003[1]	1/7/03 - 2/3/03	1,973,144
February 2003[1]	2/3/03 - 3/10/03	2,158,771
March 2003[1]	3/10/03 - 4/7/03	3,263,897
April 2003[1]	4/7/03 - 5/2/03	2,574,928
May 2003[1]	5/2/03 - 6/2/03	1,652,538
June 2003[1]	6/2/03 - 6/30/03	2,002,990
July 2003[1]	6/30/03 - 7/29/03	2,543,978
August 2003[1]	7/29/03 - 8/25/03	2,042,424
September 2003[1]	8/25/03 - 10/22/03	370,446
October 2003[2]	10/22/03 - 10/29/03	67,424
November 2003[2, 3]	10/29/03 - 11/25/03	224,278
December 2003[2, 3]	11/25/03 - 12/29/03	1,496,271
January 2004[2,3]	12/29/03 - 01/26/04	688,034
February 2004[2,3]	01/26/04 - 02/24/04	736,288
March 2004[2,3]	02/24/04 - 03/29/04	2,164,569
April 2004[2,3]	03/29/04 - 04/26/04	1,741,730
May 2004[2,3]	4/26/2004 - 5/24/2004	1,408,095
June 2004[2,3]	5/24/2004 - 6/21/2004	972,132
July 2004[2,3]	6/22/2004 - 7/26/2004	1,858,790
August 2004[2,3]	7/27/04 - 8/23/04	1,289,960
	TOTAL GALLONS	**46,558,748**

NOTES
1. System operated by Tyree Organization Ltd. From 9/02 - 9/03
2. System operated by O&M Enterprises from 10/03 - present
3. See report text for discussion of pumping wells in operation during August 2004.

Table 3
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Effluent Discharge Criteria & Analytical Compliance Results

Parameter	Daily Maximum[1]	Units	August 3, 2004 Effluent Analytical Values[2]
Flow	216,000	gpd	46,070
pH	6.0 - 9.0	standard units	-
1,1 Dichloroethene	10	ug/L	ND
1,2 Dichloroethene	10	ug/L	ND
Trichloroethene	10	ug/L	ND
Tetrachloroethene	10	ug/L	4.02
Vinyl Chloride	10	ug/L	ND
Benzene	5	ug/L	ND
Ethyl Benzene	5	ug/L	ND
Methylene Chloride	10	ug/L	ND
1,1,1 Trichloroethane	10	ug/L	ND
Toluene	5	ug/L	ND
o-Xylene	5	ug/L	**
m, p-Xylene	10	ug/L	**
Iron, total	600	ug/L	3750
Aluminum	4,000	ug/L	ND
Copper	48	ug/L	ND
Lead	11	ug/L	ND
Manganese	2,000	ug/L	323
Silver	100	ug/L	ND
Vanadium	28	ug/L	ND
Zinc	230	ug/L	ND
Total Dissolved Solids	850	mg/L	1200
Total Suspended Solids	20	mg/L	13
Cyanide, Free	10	ug/L	ND

NOTES:
1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents.
2. Values based on effluent compliance sample collected 07/22/04 of the effluent discharge.
3. Analytical report did not differentiate between o-Xylene and m&p-Xylene. Total Xylene value is given in each line.
4. pH reading taken on 05/03/04.
5. Analytical report listed trans-1,2-Dichloroethene as well as cis-1,2-Dichloroethene. Both analytes were listed as non-detect, <1.00 ug/L.
6. ND- Not detected at the reporting limit.
* Average Daily Flow based on the days of operation for August 2004 divided into the starting and ending totalizer reading.
** Total Xylenes were non-detect for August 2004.

Above Daily Maximum Requirement - Attachment E, Contract Addendum #1

Table 4
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Monthly VOCs Removed From Groundwater

Month	Actual Period	Influent VOCs (ug/L)	Effluent VOCs (ug/L)	VOCs Removed (lbs.)
September 2002[6]	9/5/02 - 10/2/02	1297	1	47.2
October 2002[6]	10/2/02 - 11/4/02	2000	1	71.6
November 2002[6]	11/4/02 - 12/2/02	1685	0	46.8
December 2002[6]	12/2/02 - 1/7/03	1586	9	44.1
January 2003[6]	1/7/03 - 2/3/03	1803	10	29.5
February 2003[6]	2/3/03 - 3/10/03	1985	3	35.7
March 2003[6]	3/10/03 - 4/7/03	1990	5	54.1
April 2003[6]	4/7/03 - 5/2/03	1656	3	35.5
May 2003[6]	5/2/03 - 6/2/03	1623	7	22.3
June 2003[6]	6/2/03 - 6/30/03	5787	6	96.6
July 2003[6]	6/30/03 - 7/29/03	1356	1	28.8
August 2003[6]	7/29/03 - 8/25/03	1263	3	21.5
September 2003[6]	8/25/03 - 10/22/03	1263	3	3.9
October 2003[7]	10/22/03 - 10/29/03	1693.69	1.47	1.0
November 2003[7]	10/29/03 - 11/25/03	2510.83	4.4	4.7
December 2003[7]	11/25/03 - 12/29/03	503.3	10.5	6.2
January 2004[7]	12/29/03 - 01/26/04	3667	15.8	21.0
February 2004[7]	01/26/04 - 02/24/04	3348.6	26.7	20.4
March 2004[7]	02/24/04 - 03/29/04	1939.3	4.96	34.9
April 2004[7,8]	03/29/04 - 04/26/04	2255	0.0	32.8
May 2004[7,8]	4/26/2004 - 5/24/2004	2641	13.3	30.9
June 2004[7,8]	5/24/2004 - 6/21/2004	1454	1.7	22.5
July 2004[7,8]	6/22/2004 - 7/26/2004	1313	3.6	20.3
August 2004[7,8]	7/27/04 - 8/23/04	2305	7.4	24.7
			Total pounds of VOCs removed from inception =	756.8

NOTES:
1. Calculations are based on monthly water samples and assumes samples are representative of the entire period.
2. Calculations assume that non-detect values = 0 ug/L.
3. Calculations are based on influent totalizer readings.
4. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
5. No samples were collected in September 2003. August 2003 values are used.
6. Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
7. Treatment system operated by O&M Enterprises from 10/03 to present.
8. Based on the August 3, 2004 analytical results.

CONVERSIONS:
1 pound = 453.5924 grams
1 gallon = 3.785 liters
concentration (ug/L)*(1g/106ug)*(1 lb/453.5924 g)*monthly volume (gallons)*(3.785 L/gallon)~lbs

Pounds of VOCs removed calculated by the following formula:

Influent: *2305 ug/L*(1g/10^6 ug)*(1 lb/453.5924 g)*1,289,960 gallons*(3.785 L/gallon)~ 24.81lbs*
Effluent: *7.4 ug/L*(1g/10^6 ug)*(1 lb/453.5924 g)*1,289,960 gallons*(3.785 L/gallon)~ 0.08lbs*
Net Cleanup: August '04 *24.73 lbs*

where, 2305 ug/L is the summation of VOC's detected om the influent groundwater and 1,289,960 gallons is the monthly process water volume.

Table 5
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
Comparison of VOC Destruction by GAC

Compound	Molecular Weight (g/mol)	Intake Concentration (Pre-GAC)[1] (ppbv)	Detection Limits - ppbv	Exhaust Concentration (Post-GAC)[2] (ppbv)	Detection Limits - ppbv	Treatment Efficiency (%)	Total Destroyed (ppbv)	Total Destroyed (ppmv)	Total Destroyed (ug/m^3)	Total Destroyed (ug)	Total Destroyed (mg)	Total Destroyed (lbs)
1,1-Dichloroethane	98.97	ND	25	0.544	5	0%	0.0	0	0.00	0	0.00	0.00
1,2-Dichloroethane	98.96	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dichloropropane	112.99	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,3-Dichlorobenzene	147.00	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,4-Dichlorobenzene	147.01	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Benzene	78.11	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Benzyl chloride	126.59	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Bromomethane	94.95	ND	25	0.404	5	0%	0.0	0	0.00	0	0.00	0.00
Carbon tetrachloride	153.82	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Chlorobenzene	112.56	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
cis-1,2-Dichloroethene	96.94	7.13	25	13.6	5	0%	0.0	0	0.00	0	0.00	0.00
cis-1,3-Dichloropropene	110.97	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Dichlorodifluoromethane	120.91	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Hexachlorobutadiene	260.7	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Tetrachloroethene	165.83	1080.00	125	2.86	5	99.74%	1077.2	1.07717	7424.07	1.3525+09	1351951.76	2.98
Toluene	92.13	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Trichloroethylene	131.4	46.7	25	ND	5	100%	46.7	0.0467	255.04	46443823	46443.62	0.10
Vinyl Chloride	62.5	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Methylene Chloride	84.93	ND	25	1.74	5	0%	0.0	0	0.00	0	0.00	0.00
Chloromethane	50.49	ND	25	0.787	5	0%	0.0	0	0.00	0	0.00	0.00
Chloroethane	65.51	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dibromoethane	187.88	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dichlorobenzene	147.01	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Styrene	104.15	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,1,2,2-Tetrachloroethane	167.85	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Trichlorofluoromethane	137.38	1.14	25	0.677	5	41%	46.7	0.0467	255.04	46443623	46443.62	0.10
1,1-Dichloroethylene	96.94	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Chloroform	119.38	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,1,1-Trichloroethane	133.41	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,1,2-Trichloroethane	133.41	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
m,p-Xylene	106.16	ND	25	ND	10	NA	0.0	0	0.00	0	0.00	0.00
o-Xylene	106.16	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Xylene (total)	318.50	ND	75	ND	15	NA	0.0	0	0.00	0	0.00	0.00
1,2,4-Trimethylbenzene	120.19	ND	25	1.18	5	0%	0.0	0	0.00	0	0.00	0.00
1,2,4-Trichlorobenzene	181.46	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
Ethylbenzene	106.17	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
1,3,5-Trimethylbenzene	120.19	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
trans-1,2-Dichloroethene	96.94	ND	25	0.684	5	0%	0.0	0	0.00	0	0.00	0.00
trans-1,3-Dichloropropene	110.97	ND	25	ND	5	NA	0.0	0	0.00	0	0.00	0.00
											TOTAL =	3.08

Flowrate =	318.959364 scfm =	9.032929184	m^3/min =	541.975751	m^3/hour
Monthly hours of operation =	336	hours (arbitrary value used for comparison purposes) [9]			
Pressure =	1 atm =	101300	Pa =	1013	millibars
Assumed stack temp =	68 F =	20	C =	293	K
Gas Constant, R =	0.08314 mb*m^3/K*mol				

Notes
1. "J" values are included in above calculations.
2. "J" values are an estimated value indicating that the compound was detected by the laboratory below the practical quantitation limit, but above the method detection limit. The detection limit on the influent was typically 25 ppbv and the effluent was 5 ppbv.
3. Less than values (<) list the practical quantitation limit and indicate that the compound was not detected.
4. Above calculations assume that non-detect values (<) = 0 ug/m3
5. All other compounds were non-detect.
6. 500 SCFM is the assumed average influent flowrate, based on weekly manometer readings
7. NA = Not Applicable
8. Revised calculation based on the following equation:
9. Assuming that blowers are only operating 50% of the total monthly reporting period time.
10. System efficiency calculations conservatively assumes higher pre-GAC detection limits did not detect lower contaminant concentrations on post-GAC results. Assume post contaminant results the same for all contaminant below post-GAC detection limits. Effiecency is then calculated on the summation of the assumed pre-GAC results subtracting the post-GAC results then dividing by the pre-GAC total.

Conversions
1 cubic foot = 0.02832 cubic meters
1 g = 1,000,000 ug
1 lb = 453.5924 grams
degrees C = (degrees F - 32)/1.8
degrees K = degrees C + 273.16
1 atm = 101,300 Pascals

$$\frac{\mu g}{m^3} = \frac{pM}{RT} * \quad \textit{concentration in ppm}$$

Where,
T is temperature in degrees Kelvin
p is pressure in millibars
R is the gas constant
M is the molecular weight

Attachment A
OMEI Weekly Inspection Reports
August 2004

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 8/23/04 9:35

Inspection personnel RC Becken

Other personnel on site

Weather Conditions sunny 72 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	15	ft
PW-2	(ON)	OFF	5	ft
PW-3	(ON)	OFF	6	ft
PW-4	(ON)	OFF	3	ft
PW-5	(ON)	OFF	5	ft
PW-6	(ON)	OFF	6	ft
PW-7	(ON)	OFF	9	ft
PW-8	(ON)	OFF	4	ft
	Equalization tank		4	ft

New meter installed 8/16/04

New meter start at 0.00

Influent Flow Rate 26.55 gpm

Influent Totalizer Reading 257914.

Sequestering agent drum level 2"

Amount of sequestering agent remaining

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 26 \ 13 psi

Bag filter bottom pressure 6 \ 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1) #2

Influent Pump Pressure 8 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.8 inches H_2O

Air stripper vacuum 25 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 8 psi

Effluent flow rate _____ gpm

Effluent Totalizer reading 253935 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 70 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 0

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent					
Air stripper effluent					
GAC influent	_____		NA	NA	
GAC effluent	_____		NA	NA	

Is there evidence of tampering/vandalism of wells?	YES	(NO)
Were manholes inspected?	YES	NO
Were electrical boxes inspected?	YES	(NO)
Is water present in any manholes or electrical boxes?	(YES)	NO

(If yes, provide manhole/electric box ID and description of any corrective measures on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations: _____

Describe any other system maintenance performed
Changed filters, afterwhich influent flow increased to 112 gpm.
Wired the digital remote readout for the new effluent flow meter.

Signature _____

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 8/16/04 10:15

Inspection personnel RC Becken Chad Becken

Other personnel on site

Weather Conditions Sunny 77 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	17	ft
PW-2	(ON)	OFF	4	ft
PW-3	(ON)	OFF	7	ft
PW-4	(ON)	OFF	6	ft
PW-5	(ON)	OFF	4	ft
PW-6	(ON)	OFF	3	ft
PW-7	(ON)	OFF	8	ft
PW-8	(ON)	OFF	7	ft
	Equalization tank		4	ft

Influent Flow Rate 19.04 gpm

Influent Totalizer Reading 9818069 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 40 / 13 psi

Bag filter bottom pressure Jun-00 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1) #2

Influent Pump Pressure 9 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.8 inches H_2O

Air stripper vacuum 25 inches H_2O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure 10 psi

Effluent flow rate ~ 90 gpm

Effluent Totalizer reading 0 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 75 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 0

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent					
Air stripper effluent					
GAC influent			NA	NA	
GAC effluent			NA	NA	

Is there evidence of tampering/vandalism of wells?	YES	(NO)
Were manholes inspected?	YES	NO
Were electrical boxes inspected?	YES	(NO)
Is water present in any manholes or electrical boxes?	(YES)	NO

(If yes, provide manhole/electric box ID and description of any corrective measures on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations:

Describe any other system maintenance performed
Changed filters, afterwhich influent flow increased to 109
Soaked up condensated under filter units.
Installed new effluent flow meter, will install remote digitall pad next week assuming manufacturer sends me wiring instructions.
At appr 1430 I received an alarm (channel 3) high level in the stripper units, drove to site and found that the water level had been high in the stripper unit and the influent tank but it was then operating as designed. Watched the system go through three cycles and the left the site. It seems like every time the system is turned off for maintenance several hours after restarting I receive an alarm for something or other.

Signature

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 8/9/04 9:00

Inspection personnel RC Becken RC Becken Jr.

Other personnel on site

Weather Conditions sunny 70 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	17	ft
PW-2	(ON)	OFF	6	ft
PW-3	(ON)	OFF	6	ft
PW-4	(ON)	OFF	5	ft
PW-5	(ON)	OFF	4	ft
PW-6	(ON)	OFF	3	ft
PW-7	(ON)	OFF	8	ft
PW-8	(ON)	OFF	7	ft
	Equalization tank		4	ft

Influent Flow Rate 19.37 gpm

Influent Totalizer Reading 9484558 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 40 // 10 psi

Bag filter bottom pressure 2 // 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use #1 (#2)

Influent Pump Pressure 8 psi

Air stripper blower in use (#1) #2

Air stripper differential pressure 0.1 inches H_2O

Air stripper vacuum 25 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 7 psi

Effluent flow rate broke down gpm

Effluent Totalizer reading _____ gallons

Are building heaters in use? YES (NO)

Ambient air temperature 77 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 0

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent					
Air stripper effluent					
GAC influent	_____		NA	NA	
GAC effluent	_____		NA	NA	

Is there evidence of tampering/vandalism of wells?	YES	(NO)
Were manholes inspected?	YES	NO
Were electrical boxes inspected?	YES	(NO)
Is water present in any manholes or electrical boxes?	(YES)	NO

(If yes, provide manhole/electric box ID and description of any corrective measures on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations: _____

Describe any other system maintenance performed
Changed filters, afterwhich influent flow increased to 103
Cleaned up condensation under filter housings.

Signature _____

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 8/3/04 8:30

Inspection personnel Richard Becken Jr.

Other personnel on site Jim Mayes

Weather Conditions Thunder storms

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	15	ft
PW-2	(ON)	OFF	5	ft
PW-3	(ON)	OFF	7	ft
PW-4	(ON)	OFF	4	ft
PW-5	(ON)	OFF	4	ft
PW-6	(ON)	OFF	6	ft
PW-7	(ON)	OFF	8	ft
PW-8	(ON)	OFF	5	ft
	Equalization tank		4	ft

Influent Flow Rate 55.75 gpm

Influent Totalizer Reading 9191559 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 40 // 15 psi

Bag filter bottom pressure 3 // 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use #1 (#2)

Influent Pump Pressure 9 psi

Air stripper blower in use (#1) #2

Air stripper differential pressure 0.1 inches H_2O

Air stripper vacuum 25 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 8 psi

Effluent flow rate 0 gpm flow meter down

Effluent Totalizer reading 101594 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 75 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 0

Is treatment building clean and organized? (YES) NO

Samples collected? (YES) NO

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent			NA	NA	NA
Air stripper effluent			NA	NA	NA
GAC influent			NA	NA	
GAC effluent			NA	NA	

Is there evidence of tampering/vandalism of wells?	YES	(NO)
Were manholes inspected?	(YES)	NO
Were electrical boxes inspected?	YES	(NO)
Is water present in any manholes or electrical boxes?	(YES)	NO

(If yes, provide manhole/electric box ID and description of any corrective measures on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations: _____

Describe any other system maintenance performed
Changed filters, afterwhich influent flow increased to101

Signature _____

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
Piezometer Water Level Log

Date 8/3/04 Measurements taken by RC Becken Jr.

PW-5	22.73 ft	Comments	
PZ-5A	10.78 ft	Comments	
PZ-5B	10.41 ft	Comments	
PZ-5C	10.52 ft	Comments	
PZ-5D	10.61 ft	Comments	
PW-6	18.35 ft	Comments	
PZ-6A	11.34 ft	Comments	
PZ-6B	11.15 ft	Comments	
PZ-6C	11.43 ft	Comments	
PZ-6D	11.1 ft	Comments	
PW-7	17.84 ft	Comments	
PZ-7A	ft	Comments	MPI 6 S 11.21
PZ-7B	11.72 ft	Comments	
PZ-7C	11.43 ft	Comments	
PZ-7D	11.31 ft	Comments	
PW-8	20.9 ft	Comments	
PZ-8A	7.41 ft	Comments	
PZ-8B	7.93 ft	Comments	
PZ-8C	7.51 ft	Comments	
PZ-8D	7.85 ft	Comments	

PW-5 pump on during measurements? (YES) NO
PW-6 pump on during measurements? (YES) NO
PW-7 pump on during measurements? (YES) NO
PW-8 pump on during measurements? (YES) NO

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
Piezometer Water Level Log

Date 8/3/04 Measurements taken by RC Becken Jr.

RW-1	21.98 ft	Comments	
PZ-1A	10.85 ft	Comments	
PZ-1B	10.51 ft	Comments	
PZ-1C	11.72 ft	Comments	
PZ-1D	11.81 ft	Comments	
PW-2	23.41 ft	Comments	
PZ-2A	10.45 ft	Comments	
PZ-2B	10.8 ft	Comments	
PZ-2C	10.3 ft	Comments	
PZ-2D	10.89 ft	Comments	
PW-3	24.31 ft	Comments	
PZ-3A	10.9 ft	Comments	
PZ-3B	10.98 ft	Comments	
PZ-3C	11.473 ft	Comments	
PZ-3D	11.01 ft	Comments	
PW-4	22.1 ft	Comments	
PZ-4A	11.42 ft	Comments	
PZ-4B	10.78 ft	Comments	
PZ-4C	11.12 ft	Comments	
PZ-4D	11.05 ft	Comments	

RW-1 pump on during measurements? (YES) NO
PW-2 pump on during measurements? (YES) NO
PW-3 pump on during measurements? (YES) NO
PW-4 pump on during measurements? (YES) NO

Attachment B
EEEPC ASC Analytical Data Package #0408024
August 2004

- **August 3, 2004 – Monthly Compliance Results for Air & Groundwater**

analytical services center
International Specialists in Environmental Analysis
4493 Walden Avenue, Lancaster, New York 14086
Tel: 716/685-8080, 800/327-6534 • Fax: 716/685-0852 • Email: asc@ene.com

August 24, 2004

Mr. Mike Steffan
E and E Buffalo Office
368 Pleasant View Dr.
Lancaster, NY 14086

RE: Mr. C's Dry Cleaners
CostPoint ID: **000699.NY06.05..**

Work Order No.: **0408024**

Dear Mr. Mike Steffan,

Analytical Services Center received 4 samples on Tuesday, August 03, 2004 for the analyses presented in the following report.

E & E will retain the samples addressed in this report for 30 days, unless otherwise instructed by the client. If additional storage is requested, the storage fee is $1.00 per sample container per month, to accrue until the client authorizes sample destruction.

Sincerely,

Barbara Krajewski

Barbara Krajewski
Project Manager

CC:
Enclosures as note

This report ends on page 89

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
Lancaster, New York 14086
a division of ecology and environment, inc.

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E AND E BUFFALO
Project: Mr. C's Dry Cleaners
Lab Order: 0408024

CASE NARRATIVE

GCMS VOLATILES
A DB 624 column and a trap packed with OV-1, Tenax, silica gel and activated charcoal was used for the volatile analysis.

Sample analysis
Volatile samples were determined to be at a pH of 7.
Samples were analyzed within hold time.
Sample AS influent was reanalyzed at a dilution due to the levels of target compounds present. Results reported are from the analysis within the instrument's calibrated range.
The tetrachloroethene peak in the initial analysis of sample AS Influent was manually integrated due to detector saturation.

Calibration and Tunes
Initial and continuing calibrations are acceptable.

QC
Surrogate recoveries are within acceptable limits.
Method blank analyses are acceptable.
Laboratory control sample/duplicate (LCS/LCSD) recoveries and RPD values are acceptable.
Internal standard area responses are acceptable.

VOLATILES - AIR
A DB 624 column and a trap packed with OV-1, Tenax, silica gel and activated charcoal was used for the volatile analysis.

Sample analysis
Samples were analyzed within hold time.
Sample GAC Influent was analyzed at multiple dilutions due to the levels amounts of target compounds present. Results reported are from the analysis within the instrument's calibrated range.

Calibration and Tunes
Initial and continuing calibrations were acceptable.
No manual peak integration was required.

QC
Surrogate recoveries are within acceptable limits except for high recovery for 1,2-dichloroethane-d4 in sample GAC Effluent. The sample was reanalyzed with similar results. Results of both analyses are included in this report.
Method blank analyses are acceptable.

Internal standard area responses are acceptable.

METALS
Sample Analysis
The samples were digested and analyzed within hold time.

Calibrations
Calibration of the ICP utilizes a zero and one non-zero standard to determine the linear equation for quantitation. A low concentration standard (PQL) is analyzed at the reporting level.
The initial and continuing calibrations were acceptable.

QC
The calibration and preparation blank analyses are acceptable.
The matrix spike/spike duplicate (MS/MSD) recoveries are within the control limits except for Calcium, Magnesium and Sodium. Calcium and Sodium are present in the sample at a level greater than ten times the spike amount added.
The RPD values are within the control limits except for Calcium and Sodium.
The laboratory control sample (LCS) recoveries are within the control limits.

MERCURY

Sample Analysis
The samples were digested and analyzed within hold time.

Calibrations
The initial and continuing calibrations were acceptable.

QC
The calibration and preparation blank analyses are acceptable.
The matrix spike/spike duplicate (MS/MSD) recoveries and RPD value are within the control limits.
The laboratory control sample (LCS) recovery is within the control limits.

GENERAL ANALYTICAL CHEMISTRY

Sample Analysis
Samples were analyzed within hold time.

Calibrations
Initial and continuing calibration standards were acceptable.

QC
Calibration and method blank analyses are acceptable.
Matrix duplicates, matrix spikes, and matrix spike duplicates (MD, MS, MSD) are acceptable.
Laboratory control sample (LCS) recoveries are acceptable except the low level LCS for cyanide is low at 88%. The acceptable range is 90-110%.

CHAIN OF CUSTODY RECORD

ASC analytical services center

Ecology and Environment, Inc., Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel: 716/685-8080, Fax 716/685-0852
Where Scientific Excellence and Efficiency Meet

Cooler No: _____
Lab: ASC
Page: 1 of 1

PROJECT No: 000699NY0605
CLIENT: NYSDEC
LOCATION: (Include State) EAST AURORA, NY
SITE NAME: MR C's DRY CLEANERS
PROJECT MANAGER: M. STEFFAN
OFFICE No.: HQ
FIELD TEAM LEADER: J. MAYS
PHONE No.: HQ
SAMPLERS: (PRINT) Rick Becken JR & James Mays

CONTAINER TYPE AND PRESERVATIVE: Summa Canister 1602 POLY HNO3 | HL POLY NAOH | HL POLY | 40 ML VOA - 4

TURNAROUND TIME: 24-HOUR ☐ R; 48-HOUR ☐ U; 1-WEEK ☐ S; STANDARD ☒ H; OTHER _____

REQUESTED ANALYSIS

DATE	TIME	SAMPLE ID	MATRIX CODE	CHECK FOR MS/MSD	No. OF CONTAINERS	VOCs (TO14A)	METALS	CYANIDE	TSS, TDS, HARDNESS	VOC's				OVA/HNU READINGS (PPM)	BEGINNING DEPTH (FEET BGS)	ENDING DEPTH (FEET BGS)	REMARKS
8/3/04	0933	AS INFLUENT	GW		6	X	X	X	X								
8/3/04	0944	AS EFFLUENT	GW		6	X	X	X	X								
8/3/04	0920	GAC INFLUENT	A		1	X				ANDERSEN	11564						START: 0920 STOP: 1020
8/3/04	0921	GAC EFFLUENT	A		1	X				GRASBY	03509						START: 0921 STOP: 1021

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Date/Time:	Temperature Blank Info.	LAB PROJECT No.:	LAB PROJECT MANAGER:
	8/3/04 1410		8-3-04 1410	Enclosed: (Yes) No		
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Date/Time:	Ship Via: Date:	(FOR LAB USE ONLY)	
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Date/Time:	BL/Airbill Number:	Date: Time:	
					Temperature: °C	
					Work Order No:	

Distribution: White - Lab original Yellow - Field team leader/Project Manager

F1260699.P65

Cooler Receipt Form

No. of Packages:	3	**Date Received:**	8-3-04
Package Receipt No.:	14141	**Project or Site Name:**	
Client:	E+E Buffalo		

A. Peliminary Examination and Receipt Phase	*Circle One*		
1. Did coolers come with airbill or packing slip?	Yes	No	(NA)
Circle carrier here and print airbill number below: Fed Ex Airborne Client Other E+E			
Shipped as high hazard or dangerous goods?	Yes	(No)	NA
2. Did cooler(s) have custody seals?	Yes	(No)	NA
3. Were custody seals unbroken and intact on receipt?	Yes	No	(NA)
4. Were custody seals dated and signed?	Yes	No	(NA)
5. How was package secured? [X] Not secured [ ] Fiberglass Tape [ ] _____			

B. Unpacking Phase

6. Date cooler(s) opened: 8-3-04 Cooler(s) opened by: _____ (Signature)

7. Was a temperature blank vial included inside cooler(s)?	(Yes)	No	NA

Please Record Temperature Vial or Cooler Temperature for Each Cooler, Range (2° - 6°C)*

Airbill No.	Temp. °C	Airbill No.	Temp. °C	Airbill No.	Temp. °C
	3.5				

Thermometer No.: 231 Correction Factor: 0.0 *If temperature is outside of acceptable range, prepare a PM Notification form indicating affected containers.

8. Were the C-O-C forms received?	(Yes)	No	NA
C-O-C forms numbers if present:			
9. Was enough packing material used in cooler(s)?	(Yes)	No	NA
Type of material: Vermiculite Bubble Wrap (Other) E+E			
10. If cooling was required, what was the means (type ice) of cooling used: (Wet) Dry Blue Other			NA
11. Were all containers sealed in separate plastic bags?	Yes	(No)	NA
12. Did all containers arrive unbroken and in good condition?	(Yes)	No	NA

13. Interim storage area if not logged: _____

In: Date _____ Time _____ Signature _____

Out: Date _____ Time _____ Signature _____

C. Login Phase

Samples Logged in By Signature: _____ Date: 8-3-04

14. Were all container labels complete (e.g. date, time preserved)?	(Yes)	No	NA
15. Were all C-O-C forms filled out properly in black ink and signed?	(Yes)	No	NA
16. Did the C-O-C form agree with containers received?	(Yes)	No	NA
17. Were the correct containers used for the tests requested?	(Yes)	No	NA
18. Were the correct preservatives listed on the sample labels?	(Yes)	No	NA
19. Was a sufficient sample volume sent for the tests requested?	(Yes)	No	NA
20. Were all volatile samples received without headspace?	(Yes)	No	NA

*Prepare a PM Notification form (F-051). L:\Forms & Lists\Final\F-024.ene\Rev.2\Approval Date: 3/31/04\Last Update:

Analytical Services Center
International Specialists in Environmental Analysis
Lancaster, New York 14086
Phone: (716) 685-8080
a division of ecology and environment, inc.

Laboratory Results

NYS ELAP ID#: 10486

CLIENT: E and E Buffalo Office
Project: Mr. C's Dry Cleaners
Lab Order: 0408024
Date Received: 8/3/2004

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Alt. Client Id	Collection Date
0408024-01A	AS Influent		8/3/2004 9:33:00 AM
0408024-01B	AS Influent		8/3/2004 9:33:00 AM
0408024-01C	AS Influent		8/3/2004 9:33:00 AM
0408024-01D	AS Influent		8/3/2004 9:33:00 AM
0408024-02A	AS Effluent		8/3/2004 9:44:00 AM
0408024-02B	AS Effluent		8/3/2004 9:44:00 AM
0408024-02C	AS Effluent		8/3/2004 9:44:00 AM
0408024-02D	AS Effluent		8/3/2004 9:44:00 AM
0408024-03A	GAC Influent		8/3/2004 9:20:00 AM
0408024-04A	GAC Effluent		8/3/2004 9:21:00 AM

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International Specialists in Environmental Analysis
4493 Walden Avenue
Lancaster, New York 14086
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Lab Order: 0408024
Client: E and E Buffalo Office
Project: Mr. C's Dry Cleaners

DATES SUMMARY REPORT

(LAB) Sample ID	(CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0408024-02A	AS Effluent	Water	Low Level VOCs by Method 8260B	8/3/2004 9:44:00 AM	8/3/2004 2:10:00 PM	7:R 8/10/2004 2:10:00 PM	8/5/2004 4:50:00 AM 1005842	SAMP	1	48	☐
0408024-02B			Total Dissolved Solids (TDS) by method EPA 160.1			5:R 8/8/2004 2:10:00 PM	8/6/2004 1007038	SAMP	1	1	☐
			Total Suspended Solids, Non-filterable Residue			5:R 8/8/2004 2:10:00 PM	8/6/2004 1007015	SAMP	1	1	☐
0408024-02C			Cyanide Prep, Total for Water by Method 9012A			12:R 8/15/2004 2:10:00 PM	8/12/2004 12:26:26 PM 200403248	NA	NA	NA	☐
			Cyanide, Total by Method 9012A			12:R 8/15/2004 2:10:00 PM	8/13/2004 3:59:23 PM 1009147	SAMP	1	1	☐
0408024-02D			Hardness, Total by Method EPA 130.2			180:R 1/30/2005 2:10:00 PM	8/4/2004 1003425	SAMP	1	1	☐
			ICP Digestion of Waters by Method 3010A			180:R 1/30/2005 2:10:00 PM	8/4/2004 9:23:00 AM 200403113	NA	NA	NA	☐
			ICP Metals Analysis by Method 6010B			180:R 1/30/2005 2:10:00 PM	8/6/2004 1:43:02 AM 1004349	SAMP	1	14	☐
			Mercury Analysis in Water by Method 7470A			26:R 8/29/2004 2:10:00 PM	8/5/2004 9:34:20 AM 1003615	SAMP	1	1	☐
			Mercury Prep for Waters by Method 7470A			26:R 8/29/2004 2:10:00 PM	8/4/2004 9:28:46 AM 200403116	NA	NA	NA	☐

(LAB) Sample ID	(CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0408024-01A	AS Influent	Water	Low Level VOCs by Method 8260B	8/3/2004 9:33:00 AM	8/3/2004 2:10:00 PM	7:R 8/10/2004 2:10:00 PM	8/5/2004 11:52:00 PM 1005943	SAMP	100	2	☐
			Low Level VOCs by Method 8260B			7:R 8/10/2004 2:10:00 PM	8/5/2004 5:53:00 AM 1005843	SAMP	1	46	☐
0408024-01B			Total Dissolved Solids (TDS) by method EPA 160.1			5:R 8/8/2004 2:10:00 PM	8/6/2004 1007037	SAMP	1	1	☐
			Total Suspended Solids, Non-filterable Residue			5:R 8/8/2004 2:10:00 PM	8/6/2004 1007014	SAMP	1	1	☐
0408024-01C			Cyanide Prep, Total for Water by Method 9012A			12:R 8/15/2004 2:10:00 PM	8/12/2004 12:26:26 PM 200403248	NA	NA	NA	☐
			Cyanide, Total by Method 9012A			12:R 8/15/2004 2:10:00 PM	8/13/2004 3:56:32 PM 1009146	SAMP	1	1	☐
0408024-01D			Hardness, Total by Method EPA 130.2			180:R 1/30/2005 2:10:00 PM	8/4/2004 1003424	SAMP	1	1	☐
			ICP Digestion of Waters by Method 3010A			180:R 1/30/2005 2:10:00 PM	8/4/2004 9:23:00 AM 200403113	NA	NA	NA	☐
			ICP Metals Analysis by Method 6010B			180:R 1/30/2005 2:10:00 PM	8/6/2004 1:19:31 AM 1004345	SAMP	1	14	☐

HT From: C-Collection / R- Receipt(VTSR) / P-Prep / T-TCLP Prep

** "Analyzed" reflects the analysis date and time or injection time for analytical tests. For preparation tests "Analyzed" reflects the start of the preparation except when "AFCEE criteria used"; flag Indicates date and time of completion of the preparation.*
For TCLP/SPLP Extractions and subsequent preparation tests..."Analyzed" reflects the date of TCLP/SPLP Extraction/preparation. For Re-extracted (RE) samples: Preparation tests completed dates reflects the extraction from the original sample leacheate unless an "RE" Sample exisits for the extraction (tumble) test.

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
Lancaster, New York 14086
a division of ecology and environment, inc.

Laboratory Resu

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Lab Order: 0408024
Client: E and E Buffalo Office
Project: Mr. C's Dry Cleaners

DATES SUMMARY REPORT

(LAB) Sample ID	(CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0408024-01D	AS Influent	Water	Mercury Analysis in Water by Method 7470A	8/3/2004 9:33:00 AM	8/3/2004 2:10:00 PM	26:R 8/29/2004 2:10:00 PM	8/5/2004 9:29:36 AM 1003614	SAMP	1	1	☐
			Mercury Prep for Waters by Method 7470A			26:R 8/29/2004 2:10:00 PM	8/4/2004 9:28:46 AM 200403116	NA	NA	NA	☐

(LAB) Sample ID	(CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0408024-04A	GAC Effluent	Air	Volatile Organics in Air by Method TO-14A	8/3/2004 9:21:00 AM	8/3/2004 2:10:00 PM	7:R 8/10/2004 2:10:00 PM	8/10/2004 9:00:00 AM 1007807	SAMP	1	41	☐

(LAB) Sample ID	(CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0408024-03A	GAC Influent	Air	Volatile Organics in Air by Method TO-14A	8/3/2004 9:20:00 AM	8/3/2004 2:10:00 PM	7:R 8/10/2004 2:10:00 PM	8/10/2004 12:37:00 PM 1007813	SAMP	25	1	☐
			Volatile Organics in Air by Method TO-14A			7:R 8/10/2004 2:10:00 PM	8/10/2004 5:17:00 AM 1010548	SAMP	5	40	☐

HT From: C-Collection / R- Receipt(VTSR) / P-Prep / T-TCLP Prep

** "Analyzed" reflects the analysis date and time or injection time for analytical tests. For preparation tests "Analyzed" reflects the start of the preparation except when "AFCEE criteria used"; flag indicates date and time of completion of the preparation.*
For TCLP/SPLP Extractions and subsequent preparation tests..."Analyzed" reflects the date of TCLP/SPLP Extraction/preparation. For Re-extracted (RE) samples: Preparation tests completed dates reflects the extraction from the original sample leacheate unless an "RE" Sample exisits for the extraction (tumble) test.

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client:
Project:
Work Order:

Method References

GCMS Volatiles

VOCs in Air by GCMS Method TO-14A	Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. 1997. EPA-625/R-96-010B. Compendium Methods TO-14A, 15,16,17. (NCEPI or AMTIC)
VOCs, Low Level by GCMS Method 8260B	Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. 3rd ed. 1986. Volumes.1A, 1B, 1C & Volume 2. (Includes all Updates). U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

Mercury

Mercury Analysis in Water by Method 7470A	Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. 3rd ed. 1986. Volumes.1A, 1B, 1C & Volume 2. (Includes all Updates). U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

Metals

Metals, TAL by ICP Method 6010B	Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. 3rd ed. 1986. Volumes.1A, 1B, 1C & Volume 2. (Includes all Updates). U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

WetChemistry

Cyanide, Total by Method 9012A	Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. 3rd ed. 1986. Volumes.1A, 1B, 1C & Volume 2. (Includes all Updates). U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.
Hardness, Total by Method EPA 130.2	Methods for Chemical Analysis of Water and Wastes. 1983. EPA-600/4-79-020. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory.
Total Dissolved Solids (TDS) by method 160.1	Methods for Chemical Analysis of Water and Wastes. 1983. EPA-600/4-79-020. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory.

Client:
Project:
Work Order:

Method References

Total Suspended Solids (TSS) by method 160.2	Methods for Chemical Analysis of Water and Wastes. 1983. EPA-600/4-79-020. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory.

GCMS VOLATILES

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID: 0408024-01A **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	0.454	J	1.00	µg/L	1	8/5/2004 5:53:00 AM	PERRY_040804F	MRD
1,1,2,2-Tetrachloroethane	ND		1.00	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	µg/L	1			
1,1,2-Trichloroethane	ND		1.00	µg/L	1			
1,1-Dichloroethane	0.351	J	1.00	µg/L	1			
1,1-Dichloroethene	0.363	J	1.00	µg/L	1			
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		5.00	µg/L	1			
1,2-Dibromoethane	ND		1.00	µg/L	1			
1,2-Dichlorobenzene	ND		1.00	µg/L	1			
1,2-Dichloroethane	ND		1.00	µg/L	1			
1,2-Dichloropropane	ND		1.00	µg/L	1			
1,3-Dichlorobenzene	ND		1.00	µg/L	1			
·Dichlorobenzene	ND		1.00	µg/L	1			
2-Butanone	ND		5.00	µg/L	1			
2-Hexanone	ND		5.00	µg/L	1			
4-Methyl-2-pentanone	ND		5.00	µg/L	1			
Acetone	ND		5.00	µg/L	1			
Benzene	ND		1.00	µg/L	1			
Bromodichloromethane	ND		1.00	µg/L	1			
Bromoform	ND		1.00	µg/L	1			
Bromomethane	ND		2.00	µg/L	1			
Carbon disulfide	ND		5.00	µg/L	1			
Carbon tetrachloride	ND		1.00	µg/L	1			
Chlorobenzene	ND		1.00	µg/L	1			
Chloroethane	ND		2.00	µg/L	1			
Chloroform	0.201	J	1.00	µg/L	1			
Chloromethane	ND		2.00	µg/L	1			
cis-1,2-Dichloroethene	7.21		1.00	µg/L	1			
cis-1,3-Dichloropropene	ND		1.00	µg/L	1			
Cyclohexane	ND		1.00	µg/L	1			
Dibromochloromethane	ND		1.00	µg/L	1			
Dichlorodifluoromethane	ND		5.00	µg/L	1			
Ethylbenzene	ND		1.00	µg/L	1			
Isopropylbenzene	ND		1.00	µg/L	1			
Methyl acetate	ND		1.00	µg/L	1			
Methyl tert-butyl ether	23.2		1.00	µg/L	1			

Definitions:

- ·ecovery outside QC limits
- B - Analyte found in Method blank
- D - Diluted due to maxtrix or extended target compounds
- DF - Dilution Factor
- DNI - Did not Ignite
- E - Result above quantitation limit (high standard or ICP linear range).
- H - Value Exceeds Maximum Contaminant Level
- J - Estimated value
- M - Matrix Spike Recovery outside limits
- N - Single Column Analysis
- NC - Not Calculated
- ND - Not Detected at the Reporting Limit
- NP - Petroleum Pattern is not present
- P - Post Spike Recovery outside limits
- R - RPD outside recovery limits

Analytical Services Center
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4493 Walden Avenue
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Influent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**
Lab ID: 0408024-01A **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Methylcyclohexane	ND		1.00	µg/L	1			
Methylene chloride	ND		1.00	µg/L	1			
Styrene	ND		1.00	µg/L	1			
Tetrachloroethene	2210		100	µg/L	100	8/5/2004 11:52:00 PM	PERRY_040805A	
Toluene	ND		1.00	µg/L	1	8/5/2004 5:53:00 AM	PERRY_040804F	
trans-1,2-Dichloroethene	1.07		1.00	µg/L	1			
trans-1,3-Dichloropropene	ND		1.00	µg/L	1			
Trichloroethene	61.9	J	100	µg/L	100	8/5/2004 11:52:00 PM	PERRY_040805A	
Trichlorofluoromethane	ND		1.00	µg/L	1	8/5/2004 5:53:00 AM	PERRY_040804F	
Vinyl chloride	0.241	J	1.00	µg/L	1			
Xylenes, Total	ND		1.00	µg/L	1			
Surr:1,2-Dichloroethane-d4	91		70 - 128	%REC	1	8/5/2004 5:53:00 AM	PERRY_040804F	MRD
Surr:4-Bromofluorobenzene	98		80 - 119	%REC	1			
Surr:Dibromofluoromethane	91		85 - 110	%REC	1			
Surr:Toluene-d8	101		83 - 110	%REC	1			

Definitions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
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NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
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R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	E and E Buffalo Office	**Client Sample ID:**	**AS Influent**
Lab Order:	0408024	**Alt. Client ID:**	
Project:	Mr. C's Dry Cleaners	**Collection Date:**	8/3/2004 9:33:00 AM
Lab ID:	**0408024-01A**	**Sample Type:** SAMP	**Matrix:** WATER **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
LOW LEVEL VOCS BY METHOD 8260B										
1_8260B_5030B_TCL_LL_W										
994-05-8	Butane, 2-methoxy-2-methyl-	8.46	1	NJ	µg/L	1	78	8/5/2004 5:53:00 AM	PERRY_040804F	

Number TICs Found: 1

itions:

ecovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
NP - Petroleum Pattern is not present
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value
NC - Not Calculated
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result above quantitation limit (high standard or ICP linear range).
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**
Lab ID: 0408024-02A **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		1.00	µg/L	1	8/5/2004 4:50:00 AM	PERRY_040804F	MRD
1,1,2,2-Tetrachloroethane	ND		1.00	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	µg/L	1			
1,1,2-Trichloroethane	ND		1.00	µg/L	1			
1,1-Dichloroethane	ND		1.00	µg/L	1			
1,1-Dichloroethene	ND		1.00	µg/L	1			
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		5.00	µg/L	1			
1,2-Dibromoethane	ND		1.00	µg/L	1			
1,2-Dichlorobenzene	ND		1.00	µg/L	1			
1,2-Dichloroethane	ND		1.00	µg/L	1			
1,2-Dichloropropane	ND		1.00	µg/L	1			
1,3-Dichlorobenzene	ND		1.00	µg/L	1			
1,4-Dichlorobenzene	ND		1.00	µg/L	1			
2-Butanone	ND		5.00	µg/L	1			
2-Hexanone	ND		5.00	µg/L	1			
4-Methyl-2-pentanone	ND		5.00	µg/L	1			
Acetone	ND		5.00	µg/L	1			
Benzene	ND		1.00	µg/L	1			
Bromodichloromethane	ND		1.00	µg/L	1			
Bromoform	ND		1.00	µg/L	1			
Bromomethane	ND		2.00	µg/L	1			
Carbon disulfide	ND		5.00	µg/L	1			
Carbon tetrachloride	ND		1.00	µg/L	1			
Chlorobenzene	ND		1.00	µg/L	1			
Chloroethane	ND		2.00	µg/L	1			
Chloroform	ND		1.00	µg/L	1			
Chloromethane	ND		2.00	µg/L	1			
cis-1,2-Dichloroethene	ND		1.00	µg/L	1			
cis-1,3-Dichloropropene	ND		1.00	µg/L	1			
Cyclohexane	ND		1.00	µg/L	1			
Dibromochloromethane	ND		1.00	µg/L	1			
Dichlorodifluoromethane	ND		5.00	µg/L	1			
Ethylbenzene	ND		1.00	µg/L	1			
Isopropylbenzene	ND		1.00	µg/L	1			
Methyl acetate	ND		1.00	µg/L	1			
Methyl tert-butyl ether	3.36		1.00	µg/L	1			

Definitions:

R - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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~aboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**
Lab ID: 0408024-02A **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Methylcyclohexane	ND		1.00	µg/L	1			
Methylene chloride	ND		1.00	µg/L	1			
Styrene	ND		1.00	µg/L	1			
Tetrachloroethene	4.02		1.00	µg/L	1			
Toluene	ND		1.00	µg/L	1			
trans-1,2-Dichloroethene	ND		1.00	µg/L	1			
trans-1,3-Dichloropropene	ND		1.00	µg/L	1			
Trichloroethene	ND		1.00	µg/L	1			
Trichlorofluoromethane	ND		1.00	µg/L	1			
Vinyl chloride	ND		1.00	µg/L	1			
Xylenes, Total	ND		1.00	µg/L	1			
Surr:1,2-Dichloroethane-d4	94		70 - 128	%REC	1	8/5/2004 4:50:00 AM	PERRY_040804F	MRD
Surr:4-Bromofluorobenzene	106		80 - 119	%REC	1			
Surr:Dibromofluoromethane	94		85 - 110	%REC	1			
Surr:Toluene-d8	95		83 - 110	%REC	1			

Definitions:

- ~ecovery outside QC limits
- DF - Dilution Factor
- H - Value Exceeds Maximum Contaminant Level
- N - Single Column Analysis
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- DNI - Did not Ignite
- J - Estimated value
- NC - Not Calculated
- P - Post Spike Recovery outside limits
- D - Diluted due to maxtrix or extended target compounds
- E - Result above quantitation limit (high standard or ICP linear range).
- M - Matrix Spike Recovery outside limits
- ND - Not Detected at the Reporting Limit
- R - RPD outside recovery limits

Analytical Services Center
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Lancaster, New York 14086
a division of geology and environment, inc.

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	E and E Buffalo Office	**Client Sample ID:**	**AS Effluent**
Lab Order:	0408024	**Alt. Client ID:**	
Project:	Mr. C's Dry Cleaners	**Collection Date:**	8/3/2004 9:44:00 AM
Lab ID:	**0408024-02A**	**Sample Type:** SAMP	**Matrix:** WATER **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst

LOW LEVEL VOCS BY METHOD 8260B
1_8260B_5030B_TCL_LL_W

NO TENTATIVELY IDENTIFIED COMPOUNDS

itions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: GAC Influent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:20:00 AM **% Moist:**
Lab ID: 0408024-03A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		25.0	ppbv	5	8/10/2004 5:17:00 AM	JAKE_040809B	GP
1,1,2,2-Tetrachloroethane	ND		25.0	ppbv	5			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	ppbv	5			
1,1,2-Trichloroethane	ND		25.0	ppbv	5			
1,1-Dichloroethane	ND		25.0	ppbv	5			
1,1-Dichloroethene	ND		25.0	ppbv	5			
1,2,4-Trichlorobenzene	ND		25.0	ppbv	5			
1,2,4-Trimethylbenzene	ND		25.0	ppbv	5			
1,2-Dibromoethane	ND		25.0	ppbv	5			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		25.0	ppbv	5			
1,2-Dichlorobenzene	ND		25.0	ppbv	5			
1,2-Dichloroethane	ND		25.0	ppbv	5			
Dichloropropane	ND		25.0	ppbv	5			
,5-Trimethylbenzene	ND		25.0	ppbv	5			
1,3-Dichlorobenzene	ND		25.0	ppbv	5			
1,4-Dichlorobenzene	ND		25.0	ppbv	5			
Benzene	ND		25.0	ppbv	5			
Benzyl chloride	ND		25.0	ppbv	5			
Bromomethane	ND		25.0	ppbv	5			
Carbon tetrachloride	ND		25.0	ppbv	5			
Chlorobenzene	ND		25.0	ppbv	5			
Chloroethane	ND		25.0	ppbv	5			
Chloroform	ND		25.0	ppbv	5			
Chloromethane	ND		25.0	ppbv	5			
cis-1,2-Dichloroethene	7.13	J	25.0	ppbv	5			
cis-1,3-Dichloropropene	ND		25.0	ppbv	5			
Dichlorodifluoromethane	ND		25.0	ppbv	5			
Ethylbenzene	ND		25.0	ppbv	5			
Hexachlorobutadiene	ND		25.0	ppbv	5			
m,p-Xylene	ND		50.0	ppbv	5			
Methylene chloride	ND		25.0	ppbv	5			
o-Xylene	ND		25.0	ppbv	5			
Styrene	ND		25.0	ppbv	5			
Tetrachloroethene	1080		125	ppbv	25	8/10/2004 12:37:00 PM	JAKE_040810A	DWW
Toluene	ND		25.0	ppbv	5	8/10/2004 5:17:00 AM	JAKE_040809B	GP
trans-1,2-Dichloroethene	ND		25.0	ppbv	5			

Definitions:

- recovery outside QC limits
- B - Analyte found in Method blank
- D - Diluted due to matrix or extended target compounds
- DF - Dilution Factor
- DNI - Did not Ignite
- E - Result above quantitation limit (high standard or ICP linear range).
- H - Value Exceeds Maximum Contaminant Level
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- M - Matrix Spike Recovery outside limits
- N - Single Column Analysis
- NC - Not Calculated
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- NP - Petroleum Pattern is not present
- P - Post Spike Recovery outside limits
- R - RPD outside recovery limits

Analytical S‿vices Center
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Lancaster, New York 14086

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‿aboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners
Client Sample ID: GAC Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:20:00 AM **% Moist:**

Lab ID: 0408024-03A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
trans-1,3-Dichloropropene	ND		25.0	ppbv	5			
Trichloroethene	46.7		25.0	ppbv	5			
Trichlorofluoromethane	1.14	J	25.0	ppbv	5			
Vinyl chloride	ND		25.0	ppbv	5			
Xylenes, Total	ND		75.0	ppbv	5			
Surr:1,2-Dichloroethane-d4	100		80 - 120	%REC	5	8/10/2004 5:17:00 AM	JAKE_040809B	GP
Surr:4-Bromofluorobenzene	100		80 - 120	%REC	5			
Surr:Toluene-d8	99		80 - 120	%REC	5			

D‿finitions:

‿ecovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
NP - Petroleum Pattern is not present
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value
NC - Not Calculated
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result above quantitation limit (high standard or ICP linear range).
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

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International Specialists in Environmental Analysis
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	E and E Buffalo Office	**Client Sample ID:**	**GAC Influent**
Lab Order:	0408024	**Alt. Client ID:**	
Project:	Mr. C's Dry Cleaners	**Collection Date:**	8/3/2004 9:20:00 AM
Lab ID:	**0408024-03A**	**Sample Type:** SAMP	**Matrix:** AIR **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst

VOLATILE ORGANICS IN AIR BY METHOD TO-14A
1_TO14_A

NO TENTATIVELY IDENTIFIED COMPOUNDS

Definitions:

ecovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
NP - Petroleum Pattern is not present
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value
NC - Not Calculated
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result above quantitation limit (high standard or ICP linear range).
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: GAC Effluent
Alt. Client ID:
Collection Date: 8/3/2004 9:21:00 AM **% Moist:**

Lab ID: 0408024-04A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		5.00	ppbv	1	8/10/2004 9:00:00 AM	JAKE_040810A	DWW
1,1,2,2-Tetrachloroethane	ND		5.00	ppbv	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.00	ppbv	1			
1,1,2-Trichloroethane	ND		5.00	ppbv	1			
1,1-Dichloroethane	ND		5.00	ppbv	1			
1,1-Dichloroethene	0.560	J	5.00	ppbv	1			
1,2,4-Trichlorobenzene	ND		5.00	ppbv	1			
1,2,4-Trimethylbenzene	1.18	J	5.00	ppbv	1			
1,2-Dibromoethane	ND		5.00	ppbv	1			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		5.00	ppbv	1			
1,2-Dichlorobenzene	ND		5.00	ppbv	1			
1,2-Dichloroethane	ND		5.00	ppbv	1			
Dichloropropane	ND		5.00	ppbv	1			
5-Trimethylbenzene	ND		5.00	ppbv	1			
1,3-Dichlorobenzene	ND		5.00	ppbv	1			
1,4-Dichlorobenzene	ND		5.00	ppbv	1			
Benzene	ND		5.00	ppbv	1			
Benzyl chloride	ND		5.00	ppbv	1			
Bromomethane	0.461	J	5.00	ppbv	1			
Carbon tetrachloride	ND		5.00	ppbv	1			
Chlorobenzene	ND		5.00	ppbv	1			
Chloroethane	ND		5.00	ppbv	1			
Chloroform	ND		5.00	ppbv	1			
Chloromethane	0.851	J	5.00	ppbv	1			
cis-1,2-Dichloroethene	13.8		5.00	ppbv	1			
cis-1,3-Dichloropropene	ND		5.00	ppbv	1			
Dichlorodifluoromethane	ND		5.00	ppbv	1			
Ethylbenzene	ND		5.00	ppbv	1			
Hexachlorobutadiene	ND		5.00	ppbv	1			
m,p-Xylene	ND		10.0	ppbv	1			
Methylene chloride	1.80	J	5.00	ppbv	1			
o-Xylene	ND		5.00	ppbv	1			
Styrene	ND		5.00	ppbv	1			
Tetrachloroethene	2.83	J	5.00	ppbv	1			
Toluene	ND		5.00	ppbv	1			
trans-1,2-Dichloroethene	0.707	J	5.00	ppbv	1			

Definitions:

ecovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: GAC Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:21:00 AM **% Moist:**
Lab ID: 0408024-04A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
trans-1,3-Dichloropropene	ND		5.00	ppbv	1			
Trichloroethene	ND		5.00	ppbv	1			
Trichlorofluoromethane	0.685	J	5.00	ppbv	1			
Vinyl chloride	ND		5.00	ppbv	1			
Xylenes, Total	ND		15.0	ppbv	1			
Surr:1,2-Dichloroethane-d4	126	*	80 - 120	%REC	1	8/10/2004 9:00:00 AM	JAKE_040810A	DWW
Surr:4-Bromofluorobenzene	110		80 - 120	%REC	1			
Surr:Toluene-d8	100		80 - 120	%REC	1			

Definitions:

- Recovery outside QC limits
- DF - Dilution Factor
- H - Value Exceeds Maximum Contaminant Level
- N - Single Column Analysis
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- DNI - Did not Ignite
- J - Estimated value
- NC - Not Calculated
- P - Post Spike Recovery outside limits
- D - Diluted due to maxtrix or extended target compounds
- E - Result above quantitation limit (high standard or ICP linear range).
- M - Matrix Spike Recovery outside limits
- ND - Not Detected at the Reporting Limit
- R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	E and E Buffalo Office	**Client Sample ID:**	**GAC Effluent**
Lab Order:	0408024	**Alt. Client ID:**	
Project:	Mr. C's Dry Cleaners	**Collection Date:**	8/3/2004 9:21:00 AM
Lab ID:	**0408024-04A**	**Sample Type:** SAMP	**Matrix:** AIR **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
VOLATILE ORGANICS IN AIR BY METHOD TO-14A										
1_TO14_A										
123-73-9	2-Butenal, (E)-	1.43	2	NJ	ppbv	1	59	8/10/2004 9:00:00 AM	JAKE_040810A	
106-97-8	Butane	1.73	2	NJ	ppbv	1	64			
104-76-7	1-Hexanol, 2-ethyl-	17.3	3	NJ	ppbv	1	83			
100-45-8	4-Cyanocyclohexene	17.77	3	NJ	ppbv	1	90			
108-95-2	Phenol (17.857)	17.86	10	NJ	ppbv	1	95			
91-20-3	Naphthalene (21.032)	21.03	9	NJ	ppbv	1	97			

Number TICs Found: 6

...itions:

... - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners
Client Sample ID: GAC Effluent
Alt. Client ID:
Collection Date: 8/3/2004 9:21:00 AM **% Moist:**
Lab ID: 0408024-04A **Sample Type:** RA **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		5.00	ppbv	1	8/10/2004 10:51:00 AM	JAKE_040810A	DWW
1,1,2,2-Tetrachloroethane	ND		5.00	ppbv	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.00	ppbv	1			
1,1,2-Trichloroethane	ND		5.00	ppbv	1			
1,1-Dichloroethane	ND		5.00	ppbv	1			
1,1-Dichloroethene	0.544	J	5.00	ppbv	1			
1,2,4-Trichlorobenzene	ND		5.00	ppbv	1			
1,2,4-Trimethylbenzene	1.18	J	5.00	ppbv	1			
1,2-Dibromoethane	ND		5.00	ppbv	1			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		5.00	ppbv	1			
1,2-Dichlorobenzene	ND		5.00	ppbv	1			
1,2-Dichloroethane	ND		5.00	ppbv	1			
?-Dichloropropane	ND		5.00	ppbv	1			
,5-Trimethylbenzene	ND		5.00	ppbv	1			
1,3-Dichlorobenzene	ND		5.00	ppbv	1			
1,4-Dichlorobenzene	ND		5.00	ppbv	1			
Benzene	ND		5.00	ppbv	1			
Benzyl chloride	ND		5.00	ppbv	1			
Bromomethane	0.404	J	5.00	ppbv	1			
Carbon tetrachloride	ND		5.00	ppbv	1			
Chlorobenzene	ND		5.00	ppbv	1			
Chloroethane	ND		5.00	ppbv	1			
Chloroform	ND		5.00	ppbv	1			
Chloromethane	0.787	J	5.00	ppbv	1			
cis-1,2-Dichloroethene	13.6		5.00	ppbv	1			
cis-1,3-Dichloropropene	ND		5.00	ppbv	1			
Dichlorodifluoromethane	ND		5.00	ppbv	1			
Ethylbenzene	ND		5.00	ppbv	1			
Hexachlorobutadiene	ND		5.00	ppbv	1			
m,p-Xylene	ND		10.0	ppbv	1			
Methylene chloride	1.74	J	5.00	ppbv	1			
o-Xylene	ND		5.00	ppbv	1			
Styrene	ND		5.00	ppbv	1			
Tetrachloroethene	2.86	J	5.00	ppbv	1			
Toluene	ND		5.00	ppbv	1			
trans-1,2-Dichloroethene	0.684	J	5.00	ppbv	1			

Definitions:

(ecovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
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NC - Not Calculated
ND - Not Detected at the Reporting Limit
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P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: GAC Effluent
Alt. Client ID:
Collection Date: 8/3/2004 9:21:00 AM **% Moist:**

Lab ID: 0408024-04A **Sample Type:** RA **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
trans-1,3-Dichloropropene	ND		5.00	ppbv	1			
Trichloroethene	ND		5.00	ppbv	1			
Trichlorofluoromethane	0.677	J	5.00	ppbv	1			
Vinyl chloride	ND		5.00	ppbv	1			
Xylenes, Total	ND		15.0	ppbv	1			
Surr:1,2-Dichloroethane-d4	124	*	80 - 120	%REC	1	8/10/2004 10:51:00 AM	JAKE_040810A	DWW
Surr:4-Bromofluorobenzene	106		80 - 120	%REC	1			
Surr:Toluene-d8	97		80 - 120	%REC	1			

Definitions:

- ecovery outside QC limits
- B - Analyte found in Method blank
- D - Diluted due to matrix or extended target compounds
- DF - Dilution Factor
- DNI - Did not Ignite
- E - Result above quantitation limit (high standard or ICP linear range).
- H - Value Exceeds Maximum Contaminant Level
- J - Estimated value
- M - Matrix Spike Recovery outside limits
- N - Single Column Analysis
- NC - Not Calculated
- ND - Not Detected at the Reporting Limit
- NP - Petroleum Pattern is not present
- P - Post Spike Recovery outside limits
- R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office
Client Sample ID: GAC Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:21:00 AM
Lab ID: 0408024-04A **Sample Type:** RA **Matrix:** AIR **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
VOLATILE ORGANICS IN AIR BY METHOD TO-14A										
1_TO14_A										
123-73-9	2-Butenal, (E)-	1.43	2	NJ	ppbv	1	64	8/10/2004 10:51:00 AM	JAKE_040810A	
75-45-6	Methane, chlorodifluoro-	1.48	2	NJ	ppbv	1	72			
106-97-8	Butane	1.73	2	NJ	ppbv	1	59			
104-76-7	1-Hexanol, 2-ethyl-	17.3	3	NJ	ppbv	1	90			
100-45-8	4-Cyanocyclohexene	17.76	2	NJ	ppbv	1	94			
108-95-2	Phenol (17.851)	17.85	9	NJ	ppbv	1	95			
91-20-3	Naphthalene (21.026)	21.03	9	NJ	ppbv	1	97			

Number TICs Found: 7

...nitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	E and E Buffalo Office	**Client Sample ID:**	
Lab Order:	0408024	**Alt. Client ID:**	
Project:	Mr. C's Dry Cleaners	**Collection Date:**	
Lab ID:	**MB-1829-29-2**	**Sample Type:** MBLK	**Matrix:** AIR	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Date Analyzed	Run Batch ID	Analyst

VOLATILE ORGANICS IN AIR BY METHOD TO-14A
1_TO14_A

NO TENTATIVELY IDENTIFIED COMPOUNDS

Definitions:	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	D - Diluted Out
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	N - Single Column Analysis

LIMS Version #: 040820_1400

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	E and E Buffalo Office	**Client Sample ID:**	
Lab Order:	0408024	**Alt. Client ID:**	
Project:	Mr. C's Dry Cleaners	**Collection Date:**	
Lab ID:	**MB-1829-30-1**	**Sample Type:** MBLK	**Matrix:** AIR	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Date Analyzed	Run Batch ID	Analyst

VOLATILE ORGANICS IN AIR BY METHOD TO-14A
1_TO14_A

NO TENTATIVELY IDENTIFIED COMPOUNDS

Definitions:	ND - Not Detected at the Reporting Limit	* - Recovery outside limits	M -Matrix Spike recovery outside limits
	J - Analyte detected below Reporting limits	R - RPD outside recovery limits	Q - Qualifier
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range	D - Diluted Out
	H - Value exceeds Maximum Contaminant Level	Surr - Denotes Surrogate Compound	N - Single Column Analysis

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office
Work Order: 0408024
Project: Mr. C's Dry Cleaners
Test Code: 1_TO14_A
Batch ID: JAKE_040809B

QC SUMMARY REPORT SURROGATE RECOVERIES

Volatile Organics in Air by Method TO-14A

Sample ID	Type	BR4FBZ	BZMED8	DCA12D4					
0408024-03A	SAMP	100	99	100					
MB-1829-29-2	MBLK	98	99	110					

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	80-120
BZMED8	=	Toluene-d8	80-120
DCA12D4	=	1,2-Dichloroethane-d4	80-120

*** Surrogate recovery outside acceptance limits**

D - Diluted due to matrix or extended target compounds

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office
Work Order: 0408024
Project: Mr. C's Dry Cleaners
Test Code: 1_TO14_A
Batch ID: JAKE_040810A

QC SUMMARY REPORT SURROGATE RECOVERIES

Volatile Organics in Air by Method TO-14A

Sample ID	Type	BR4FBZ	BZMED8	DCA12D4					
0408024-04A	SAMP	110	100	126*					
0408024-04A	RA	106	97	124*					
MB-1829-30-1	MBLK	100	100	101					

Acronym		Surrogate	QC Limits
BR4FBZ	=	4-Bromofluorobenzene	80-120
BZMED8	=	Toluene-d8	80-120
DCA12D4	=	1,2-Dichloroethane-d4	80-120

*** Surrogate recovery outside acceptance limits**

D - Diluted due to matrix or extended target compounds

METALS

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID: 0408024-01D **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_6010B_TAL_W

ICP METALS ANALYSIS BY METHOD 6010B **Method:** SW6010B **Prep Method:** SW3010A

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Aluminum	ND		200	µg/L	1	8/6/2004 1:19:31 AM	OPTIMA3300_040805C	SDP
Calcium	141000		1500	µg/L	1			
Cobalt	ND		20.0	µg/L	1			
Copper	ND		20.0	µg/L	1			
Iron	5720		200	µg/L	1			
Lead	ND		5.00	µg/L	1			
Magnesium	22600		1500	µg/L	1			
Manganese	390		10.0	µg/L	1			
Nickel	ND		20.0	µg/L	1			
Potassium	6360		1500	µg/L	1			
Silver	ND		10.0	µg/L	1			
Sodium	234000		1500	µg/L	1			
Vanadium	ND		20.0	µg/L	1			
Zinc	ND		20.0	µg/L	1			

Definitions:

- ecovery outside QC limits
- B - Analyte found in Method blank
- D - Diluted due to maxtrix or extended target compounds
- DF - Dilution Factor
- DNI - Did not Ignite
- E - Result above quantitation limit (high standard or ICP linear range).
- H - Value Exceeds Maximum Contaminant Level
- J - Estimated value
- M - Matrix Spike Recovery outside limits
- N - Single Column Analysis
- NC - Not Calculated
- ND - Not Detected at the Reporting Limit
- NP - Petroleum Pattern is not present
- P - Post Spike Recovery outside limits
- R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Effluent
Alt. Client ID:
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**

Lab ID: 0408024-02D **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_6010B_TAL_W

ICP METALS ANALYSIS BY METHOD 6010B **Method:** SW6010B **Prep Method:** SW3010A

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Aluminum	ND		200	µg/L	1	8/6/2004 1:43:02 AM	OPTIMA3300_040805C	SDP
Calcium	134000		1500	µg/L	1			
Cobalt	ND		20.0	µg/L	1			
Copper	ND		20.0	µg/L	1			
Iron	3750		200	µg/L	1			
Lead	ND		5.00	µg/L	1			
Magnesium	21800		1500	µg/L	1			
Manganese	323		10.0	µg/L	1			
Nickel	ND		20.0	µg/L	1			
Potassium	6130		1500	µg/L	1			
Silver	ND		10.0	µg/L	1			
Sodium	228000		1500	µg/L	1			
Vanadium	ND		20.0	µg/L	1			
Zinc	ND		20.0	µg/L	1			

Definitions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

LIMS Version #: 040805_1130
Printed: Friday, August 06, 2004 1:39:31 PM

MERCURY

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID: 0408024-01D **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_7470A_HG_W

MERCURY ANALYSIS IN WATER BY METHOD 7470A **Method:** SW7470A **Prep Method:** SW7470A

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Mercury	ND		0.200	µg/L	1	8/5/2004 9:29:36 AM	LEEMAN_040805A	JLS

Definitions:

very outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
NP - Petroleum Pattern is not present
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value
NC - Not Calculated
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result above quantitation limit (high standard or ICP linear range).
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

LIMS Version #: 040805_1130 **Printed:** Friday, August 06, 2004 11:40:20 AM

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Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**
Lab ID: 0408024-02D **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_7470A_HG_W

MERCURY ANALYSIS IN WATER BY METHOD 7470A **Method:** SW7470A **Prep Method:** SW7470A

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Mercury	ND		0.200	µg/L	1	8/5/2004 9:34:20 AM	LEEMAN_040805A	JLS

Definitions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

LIMS Version #: 040805_1130
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GENERAL ANALYTICAL CHEMISTRY

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4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID 0408024-01D **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_130.2_HARD_W

HARDNESS, TOTAL BY METHOD EPA 130.2 **Method:** EPA130.2 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Hardness (As CaCO3)	458		1.00	mg/L	1	8/4/2004	WC_HARDNESS_040804A	MGR

Definitions:

Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
NP - Petroleum Pattern is not present
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value
NC - Not Calculated
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result above quantitation limit (high standard or ICP linear range).
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

LIMS Version #: 040820_1400
Printed: Monday, August 23, 2004 10:36:04 AM

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**

Lab ID 0408024-02D **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_130.2_HARD_W

HARDNESS, TOTAL BY METHOD EPA 130.2 **Method:** EPA130.2 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Hardness (As CaCO3)	432		1.00	mg/L	1	8/4/2004	WC_HARDNESS_040804A	MGR

Definitions:

covery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

LIMS Version #: 040820_1400
Printed: Monday, August 23, 2004 10:36:05 AM

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Lancaster, New York 14086
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID 0408024-01B **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_160.1_TDS_W

TOTAL DISSOLVED SOLIDS (TDS) BY METHOD EPA 160.1 **Method:** EPA160.1 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Dissolved Solids (Residue, Filterable)	1300		10	mg/L	1	8/6/2004	SARTORIUS_TDS_040806	LMW

Definitions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

LIMS Version #: 040820_1400
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**

Lab ID 0408024-02B **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_160.1_TDS_W

TOTAL DISSOLVED SOLIDS (TDS) BY METHOD EPA 160.1 **Method:** EPA160.1 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Dissolved Solids (Residue, Filterable)	1200		10	mg/L	1	8/6/2004	SARTORIUS_TDS_040806	LMW

Definitions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0408024
Project: Mr. C's Dry Cleaners

Client Sample ID: AS Influent
Alt. Client ID:
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID 0408024-01B **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_160.2_TSS_W

TOTAL SUSPENDED SOLIDS, NON-FILTERABLE RESIDUE **Method:** EPA160.2 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	13		4.0	mg/L	1	8/6/2004	SARTORIUS_TSS_040806	LMW

Definitions:

- Recovery outside QC limits
- B - Analyte found in Method blank
- D - Diluted due to maxtrix or extended target compounds
- DF - Dilution Factor
- DNI - Did not Ignite
- E - Result above quantitation limit (high standard or ICP linear range).
- H - Value Exceeds Maximum Contaminant Level
- J - Estimated value
- M - Matrix Spike Recovery outside limits
- N - Single Column Analysis
- NC - Not Calculated
- ND - Not Detected at the Reporting Limit
- NP - Petroleum Pattern is not present
- P - Post Spike Recovery outside limits
- R - RPD outside recovery limits

LIMS Version #: 040820_1400 **Printed:** Monday, August 23, 2004 10:36:04 AM

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**

Lab ID 0408024-02B **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_160.2_TSS_W

TOTAL SUSPENDED SOLIDS, NON-FILTERABLE RESIDUE **Method:** EPA160.2 **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	6.0		4.0	mg/L	1	8/6/2004	SARTORIUS_TSS_040806	LMW

Definitions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

LIMS Version #: 040820_1400
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NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Influent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:33:00 AM **% Moist:**

Lab ID 0408024-01C **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_9012A_CN_W

CYANIDE, TOTAL BY METHOD 9012A **Method:** SW9012A **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Cyanide	ND		0.01	mg/L	1	8/13/2004 3:56:32 PM	LACHAT_CN_040812B	LMW

itions:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS Effluent
Lab Order: 0408024
Alt. Client ID:
Project: Mr. C's Dry Cleaners
Collection Date: 8/3/2004 9:44:00 AM **% Moist:**

Lab ID 0408024-02C **Sample Type:** SAMP **Matrix:** Water **Test Code:** 1_9012A_CN_W

CYANIDE, TOTAL BY METHOD 9012A **Method:** SW9012A **Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Cyanide	ND		0.01	mg/L	1	8/13/2004 3:59:23 PM	LACHAT_CN_040812B	LMW

Qualifiers:

Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

LIMS Version #: 040820_1400
Printed: Monday, August 23, 2004 10:36:05 AM

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Lancaster, New York 14086
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office
Work Order: 0408024
Project: Mr. C's Dry Cleaners

QC SUMMARY REPORT
Method Blank

Cyanide, Total by Method 9012A

Test Code: *1_9012A_CN_W* Units: **mg/L**

Sample ID **MB-200403248** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **LACHAT_CN_040812B** SeqNo: **1009143** Analysis Date **8/13/2004 3:52:41 PM** Prep Batch ID: **200403248** Prep Date **8/12/2004**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
Cyanide	ND	0.003130	0.01000								

Qualifier Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linea
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit **Analyte Types:** S - Surrogate I - Internal Standard

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Lancaster, New York 14086
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: E and E Buffalo Office
Work Order: 0408024
Project: Mr. C's Dry Cleaners

QC SUMMARY REPORT
Sample Matrix Spike

Cyanide, Total by Method 9012A

Test Code: *1_9012A_CN_W* Units: **mg/L**

Sample ID **0408024-01CS** Client Sample ID: **AS Influent** DF: 1 DL_No: 1

Run Batch ID: **LACHAT_CN_040812B** SeqNo: **1009144** Analysis Date **8/13/2004 3:57:29 PM** Prep Batch ID: **200403248** Prep Date **8/12/2004**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
Cyanide	0.09199	0.003130	0.01000	0.1000	0	92	82	122			

Qualifier Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linea
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit **Analyte Types:** S - Surrogate I - Internal Standard

Analytical Services Center

International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

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Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Work Order: 0408024

Project: Mr. C's Dry Cleaners

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Cyanide, Total by Method 9012A

Test Code: *1_9012A_CN_W* Units: **mg/L**

Sample ID **0408024-01CS1** Client Sample ID: **AS Influent** DF: 1 DL_No: 1

Run Batch ID: **LACHAT_CN_040812B** SeqNo: **1009145** Analysis Date **8/13/2004 3:58:26 PM** Prep Batch ID: **200403248** Prep Date **8/12/2004**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
Cyanide	0.1073	0.003130	0.01000	0.1000	0	107	82	122	15.4	20	

Qualifier Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linea
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit **Analyte Types:** S - Surrogate I - Internal Standard

Attachment C

Summary of Site Utility Costs and Projections
Mr. C's Dry Cleaners Site

October 2003 to August 2004

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs

NYSDEC Work Assignment #27.4

12 Months of System Operation and Maintenance

ATTACHMENT C

Utility Budget:	
Electric:	$14,400.00
Telephone:	$540.00
Total:	$14,940.00

Gas and Electric

Utility Provider	Account #	E&E Cost Center	Description	October	November	December	January '04	February	March		
New York State E&G	06-311-11-002616-26	000699.NY06.05	Mr. C's Electric Costs	$ 923.50	$ 2,478.36	$ 2,741.98	$ 2,482.85	$ 2,024.17	$ 2,024.17		
National Fuel Gas	5819628-05	000699.NY06.05	Mr. C's Natural Gas Costs					$ 56.55	$ 153.32		
			Totals	**$ 923.50**	**$ 2,478.36**	**$ 2,741.98**	**$ 2,482.85**	**$ 2,080.72**	**$ 2,177.49**		

	April	May	June	July	August	September	October	Ave. /Month
Mr. C's Electric Costs	$ 1,791.95	$ 1,633.97	$ 1,605.43	$ 1,701.54	$ 1,381.96	$ -	$ -	$ 1,889.99
Mr. C's Natural Gas Costs	$ 90.90	$ 66.37	$ 57.66	$ 54.86				$ 79.94
	$ -	$ -						
Totals	**$ 1,882.85**	**$ 1,700.34**	**$ 1,663.09**	**$ 1,756.40**	**$ 1,381.96**	**$ -**	**$ -**	**$ 1,969.93**

Grand Total - NYSE&G/National Fuel Gas Costs To Date **$ 21,269.54**

Phone

Utility Provider	Phone #	E&E Cost Center	Location Description	October	November	December	January '04	February '04	March '04		
Verizon *Account# 716 652 0094 416 26 2*	716-652-0094	000699.NY06.05	Mr. C's Telephone Costs	$ 213.24	$ 37.32	$ 39.12	$ 39.12	$ 44.18	$ 44.18		

	April	May	June	July	August	September	October	Ave./Month
	$ 38.67	$ 39.75	$ 38.37	$ 38.01	$ -	$ -	$ -	$ 45.05

Grand Total - Verizon Costs to Date **$ 571.96**

****This includes initial connection fees for the phone company of approximate

Grand Total All Utilities To Date **$ 21,841.50**

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs

ATTACHMENT C

NYSDEC Work Assignment #27.3

12 Months of System Operation and Maintenance

Budget Remaining:		
	Electric:	-$6,869.54
	Telephone:	-$31.96
	Total:	-$6,901.50

O&M Months Remaining: 2

Monthly Treatment System Operational Time by O&M Services

Month	Possible OP Hours	Actual OP Hours	Up-Time Percent	Percent Capacity*	General Operation Comments
September-03	96	96	100.00%	58%	Shutdown by Tyree after Separable Part B inspection
October-03	168	168	100.00%	6%	Official Startup by O&M on 10/22/03
November-03	720	720	100.00%	5%	
December-03	744	744	100.00%	28%	
January-04	672	672	100.00%	16%	
February-04	696	696	100.00%	21%	
March-04	816	815	99.88%	51%	
April-04	672	670	99.70%	50%	
May-04	696	513	73.71%	43%	Equipment shutdown- low flow of water to air stripper - 5/17-24/04
June-04	696	692	99.43%	30%	Individual pumps shutdown for inspection and cleaning
July-04	840	840	100.00%	47%	100% operational
August-04	672	672	100.00%	42%	
September-04					
October-04					
Totals to Date	7488	7298	97.46%		

* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02.
Evaluated on total gallons discharged for monthly operating time
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%.

Projected Utility Costs for the O&M year (10/03 to 10/04)

	Ave./Month			
Electric	$ 1,889.99			
Gas	$ 79.94			
Telephone	$ 45.05			
	$ 2,014.98	times	12 months	$24,179.82