Sutton

ecology and environment engineering, p.c.

BUFFALO CORPORATE CENTER
368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

March 10, 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
January 2004 O&M Report

Dear Mr. Chiusano:

Ecology and Environment Engineering, P.C. (E&E) is pleased to provide this February 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 E&E's subcontractor O&M Enterprises (OME) are provided as Attachment A. The analytical data package from E&E's Analytical Services Center is provided as Attachment B.

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

Operational Summary

- No system shutdowns occurred and the treatment system was operational for 100% of the period between 01/26/04 and 02/24/04. Table 1 is provided to indicate the monthly operational time of the treatment equipment from the time of system startup.
- The pump in pumping well RW-1 was not operational on February 2, 2004, due to the fact that OME disconnected the RW-1 pump on January 26, 2004 to diagnose problem, but was unsuccessful. Thus, the groundwater pumping system was not operating at full pumping capacity. Carrier Controls was recruited to diagnose the problem with RW-1 pump and arrived onsite on February 2, 2004. Carrier Controls determined that both pump motors were faulty and suggested replacing the single-phase pump motors with a three-phase pump motors. Carrier Controls rewired the control panel to allow installation of a three-phase pump motor. On February 9, 2004 E&E personnel met with R.C. Becken at E&E headquarters to discuss pump RW-1, the control panel and various other issues. On February 26, 2004, R.C. Becken installed and restarted a new three-phase pump motor for RW-1. Carrier Controls was onsite to inspect the control panel. Carrier Controls also removed the starter overload from the sump pump and installed it on the

- starter for RW-1, due to the fact that the original starter overload used on RW-1 was too large for the new three-phase motor.

The influent totalizer for the month indicates that approximately 736,288 gallons of groundwater were processed through the treatment system from 01/26/04 02/24/04. Because of questionable accuracy, the effluent totalizer readings are not used. OME is preparing a proposal in March 2004 for repair and replacement of the effluent totalizer for consistency in reporting. Table 2 provides a summary of groundwater volume treated to date. Historical volumes are based on influent totalizer readings provided by the previous 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)	100%
October 2002 (744)	99.33%
November 2002 (720)	93.41%
December 2002 (744)	80.65%
January 2003 (744)	59.15%
February 2003 (672)	63.39%
March 2003 (744)	82.39%
April 2003 (720)	100%
May 2003 (744)	100%
June 2003 (720)	90.0%
July 2003 (744)	100%
August 2003 (744)	100%
September 1-4, 2003 (96)	100%
October 22 -29, 2003 (168)	100%
October 29 - November 25, 2003 (648)	99%
November 25 - December 29, 2003 (816)	100%
December 29, 2003 – January 26, 2004 (672)	100%
January 26, 2004 – February 24, 2004 (696)	100%

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

- Piezometer measurements were collected on 02/09/04. These readings are provided in the weekly inspection reports provided in Attachment A. Measurements were not collected at RW-1 and the surrounding piezometers, as the submersible well pump in RW-1 was not operational at that time. Measurements were also not collected at PW-5 and the piezometers surrounding this well, as well as PW-6, PW-7, and piezometers PZ-6A, PZ-6C, PZ-7A and PZ-7D, due to the presence of deep snow and ice in the areas noted. These measurements indicate that a cone of depression exists around three of the four wells measured. The water level in PW-4 was equal to or

slightly below the surrounding piezometers except for PZ-4A and PZ-4C (depth to water in PZ-4A exceeded depth to water in PW-4 by 0.62 feet; depth to water in PZ-4C exceeded depth to water in PW-4 by 0.09 feet).

- On February 9, 2004, Bob Liddell (local HVAC subcontractor to OME) completed installation of the gas heating system. This modification was performed as a result of the evaluation of energy savings by switching to gas heat. National Fuel Gas was onsite on February 9, 2004 and inspected the natural gas line to the heater and installed the gas meter. Bob Liddell purchased a new heater exhaust fan that was installed on February 16, 2004. The electric heaters were turned off once the gas heating system was fully operational. E&E will evaluate the savings after review of the monthly invoice from National Fuel Gas.
- On February 2, 2004, Carrier Control installed photoelectric eyes on both exterior building lights to reduce electrical consumption when not needed.
- A 50-micron filter has been used in series with a 25-micron filter during January 2004 through February 15, 2004. The 50-micron filters were changed out on February 9, 2004. On February 16, 2004, R.C. Becken installed 25-micron filters in series with 10-micron filters. The sequestering agent metering pump was turned off on 1/19/04 to help determine if it is contributing to the binding of the filters and has been off since that time. This evaluation period will continue into March 2004.
- The auto dialer malfunctioned on February 9, 2004 while R.C. Becker was onsite. It sent out a power failure call, despite there being power present in the treatment building. Upon closer inspection of the auto dialer, R.C. Becker determined that the fuse was blown, and there weren't any replacement fuses available onsite. R.C. Becker purchased new fuses and replaced the blown fuse in the auto dialer. Auto dialer was fully operational after fuse was replaced.
- Checklists for weekly system inspections are provided as Attachment A for 2/2/04, 2/9/04, 2/16/04 and 2/24/04. Weekly system checks indicate that all operating equipment appear to be operating within normal ranges, aside from pump RW-1, which wasn't operational until 2/24/04, when the old motors were replaced with a single three-phase motor. Pump PW-4 was discovered to be not operational on 2/24/04. Pump and motor in PW-4 were removed and replaced with a new pump and motor. The water level in the well started descending immediately as a result.

Analytical Summary - Groundwater

- E&E and OME personnel sampled influent and effluent groundwater on February 9, 2004. The groundwater samples were analyzed for volatile organic compounds (VOCs), metals, total suspended solids (TSS), total dissolved solids (TDS), and hardness. The air samples were analyzed for VOCs only. The results are discussed below.
- Methyl tert-butyl ether (MTBE) (64.6 µg/L), Trichloroethene (114 µg/L) and Tetrachloroethene (3170 µg/L) were the only compounds detected in the influent groundwater. Tetrachloroethene was the only compound detected in the effluent groundwater at 26.7 µg/L, in exceedance of the Effluent Limitation of 10 µg/L given in Addendum #1 of the Construction Contract

Documents. E&E will attempt to remedy this situation by running the second blower (#1) in conjunction with the blower currently in operation (#2) to increase air flow through the air stripper. A comparison between the analytical values and the limitations set forth is presented as Table 3.

- On March 2, 2004, E&E collected influent and effluent groundwater samples to determine if effluent concentrations of tetrachlorethene were still in exceedance of the Effluent Limitation of 10 µg/L given in Addendum #1 of the Construction Contract Documents. As the laboratory results show, tetrachloroethene was detected in the influent groundwater at a concentration of 1850 µg/L and in the effluent groundwater at a concentration of approximately 4.96 µg/L, which is in compliance with the Effluent Limitations of 10 µg/L given in Addendum #1 of the Construction Contract Documents. E&E believes that this drop in concentration is a result from pump RW-1 being in operation at the time of sampling, which diluted the groundwater and thus reducing the concentration of tetrachloroethene in the influent and effluent groundwater samples.
- Approximately 20.4 pounds of VOCs were collected in the influent groundwater, as calculated in Table 4. These values are calculated based on influent 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 February 2004.
- The treated groundwater effluent results for metals were all in compliance with the Effluent Limitations. TSS was in compliance while TDS returned above the compliance concentration of 850 mg/L with an actual concentration of 1200 mg/L during the month of February 2004. E&E believes the elevated levels of TDS stem from the high metals concentrations in the groundwater, which are not currently being removed by the treatment system. The air stripper was further evaluated as a result of the exceedence and found to be clean and fully operational.

Analytical Summary - Air

- E&E and OME personnel sampled the air stripper exhaust before and after the granular activated carbon (GAC) vessels on February 9, 2004. Air samples were collected using pre-evacuated SUMMA canisters calibrated to continuously collect a one-hour sample.
- Tetrachloroethene and trichloroethene were the only compounds detected in the influent samples, whereas tetrachloroethene was the only compound detected in the effluent air samples. The granular activated carbon reduced the tetrachloroethene concentration from 1100 ppbv to 35.6 ppbv and reduced the trichloroethene concentration from 68.8 ppbv to <5.00 ppbv, indicating approximately 96.8% VOC adsorption in the GAC. Assuming that the blowers are only operational 50% of the total reporting period time, this efficiency calculates to approximately 4.60 lbs of VOCs removed during the February 2004 reporting period. All other compounds were below the detection limit.

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

Very Truly Yours,

Michael G. Steffan

Michael G. Steffan
Project Manager

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

Attachment A
Weekly Inspection Reports

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

Date/Time 2/2/04 1:00

Inspection personnel RC Becken

Other personnel on site Andy Murphy

Weather Conditions sunny 32 degrees

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

RW-1

Provide water level readings on control panel

RW-1	ON	(OFF)	15	ft
PW-2	(ON)	OFF	6	ft
PW-3	(ON)	OFF	5	ft
PW-4	(ON)	OFF	16	ft
PW-5	(ON)	OFF	10	ft
PW-6	(ON)	OFF	4	ft
PW-7	(ON)	OFF	7	ft
PW-8	(ON)	OFF	6	ft
	Equalization tank		4	ft

Influent Flow Rate 19.39 gpm

Influent Totalizer Reading 9191415 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 10 11 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 6 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 18 inches H_2O

Air stripper vacuum 17 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 30 psi

Effluent flow rate 109 gpm

Effluent Totalizer reading 987006 gallons 708090

Are building heaters in use? (YES) NO

Ambient air temperature 60 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 1"

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 (50 micron only). Carrier Controls on site to check RW-1 both motors bad, suggested replacing with three phase motor as soon of the drawings indicate and then eliminate the capacitor used with the single phase motor. Three phase would be more ecomonical to run. He rewired the control panel so I could install a three phase motor and also connected photo electric eyes on both exterior lights so they were not on 24 / 7. Bob liddell working on the heating system but did not finish, he will return next Monday.

Signature _____

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

Date/Time 2/9/04 13:15

Inspection personnel RC Becken

Other personnel on site Bob Liddell Andy Murphy

Weather Conditions overcast 41 degrees

Are all well pumps operating in auto? YES (NO)
If "NO", provide explanation
RW-1

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	16	ft
PW-5	(ON)	OFF	9	ft
PW-6	(ON)	OFF	3	ft
PW-7	(ON)	OFF	10	ft
PW-8	(ON)	OFF	4	ft
	Equalization tank		4	ft

Influent Flow Rate 20.23 gpm

Influent Totalizer Reading 9401240 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 25/18 psi

Bag filter bottom pressure ten zero 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 5 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 17 inches H_2O

Air stripper vacuum 17 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 25 psi

Effluent flow rate 105 gpm

Effluent Totalizer reading 124378 gallons 111406

Are building heaters in use? (YES) NO

Ambient air temperature 60 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 1"

Is treatment building clean and organized? (YES) NO

Samples collected? (YES) NO

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent			7.92	0	52.6
Air stripper effluent			8.34	39.36	50.7
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
Sampling done, water levels gauged in wells that could be located, deep snow has many buried. Bob Liddell on site to finish installation of gas heater, unfortunately there is a problem with the exaust fan on the heater therefore it will not operate,a new fan will be installed next week. National Fuel Gas on site to inspect the gas line to the heater and install the gas meter. While on site the auto dailer started dailing out with a power failure alarm, after investigation I found the fuse in the auto dailer had blown, no fuses left on site, will purchase and install next week.
I placed a jumper cable across the fuse terminal and the alarm cleared, I'm not sure why the fuse blew but I know E&E personnel had problems in October similar to this.

Signature _____

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

Date 2/9/04 Measurements taken by RC Becken

RW-1		ft	Comments
PZ-1A		ft	Comments
PZ-1B		ft	Comments
PZ-1C		ft	Comments
PZ-1D		ft	Comments
PW-2	24.83	ft	Comments
PZ-2A	10.91	ft	Comments
PZ-2B	11.22	ft	Comments
PZ-2C	10.71	ft	Comments
PZ-2D	10.54	ft	Comments
PW-3	19.9	ft	Comments
PZ-3A	11.31	ft	Comments
PZ-3B	11.39	ft	Comments
PZ-3C	11.86	ft	Comments
PZ-3D	11.4	ft	Comments
PW-4	11.11	ft	Comments
PZ-4A	11.73	ft	Comments
PZ-4B	10.96	ft	Comments
PZ-4C	11.2	ft	Comments
PZ-4D	10.59	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

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

Date 2/9/04 Measurements taken by RC Becken

PW-5		ft	Comments
PZ-5A		ft	Comments
PZ-5B		ft	Comments
PZ-5C		ft	Comments
PZ-5D		ft	Comments
PW-6		ft	Comments
PZ-6A		ft	Comments
PZ-6B	11.72	ft	Comments
PZ-6C		ft	Comments
PZ-6D	11.89	ft	Comments
PW-7		ft	Comments
PZ-7A		ft	Comments
PZ-7B	12.23	ft	Comments
PZ-7C	11.71	ft	Comments
PZ-7D		ft	Comments
PW-8	21.03	ft	Comments
PZ-8A	8.46	ft	Comments
PZ-8B	8.5	ft	Comments
PZ-8C	8.04	ft	Comments
PZ-8D	8.36	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

RECEIVED
BY AMM DATE 2/24/04

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

Date/Time 2/16/04 9:30

Inspection personnel RC Becken

Other personnel on site Bob Liddell Greg

Weather Conditions clear 11 degrees

Are all well pumps operating in auto? YES (NO)
If "NO", provide explanation
RW-1

Provide water level readings on control panel

RW-1	ON	(OFF)	15 ft
PW-2	(ON)	OFF	9 ft
PW-3	(ON)	OFF	5 ft
PW-4	(ON)	OFF	16 ft
PW-5	(ON)	OFF	8 ft
PW-6	(ON)	OFF	6 ft
PW-7	(ON)	OFF	12 ft
PW-8	(ON)	OFF	14 ft
	Equalization tank		4 ft

Influent Flow Rate 11.11 gpm

Influent Totalizer Reading 9555613 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 50/20 psi

Bag filter bottom pressure 18/0 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 5 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 17 inches H_2O

Air stripper vacuum 19 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 20 psi

Effluent flow rate 105.6 gpm

Effluent Totalizer reading 214767 gallons 201786

Are building heaters in use? (YES) NO

Ambient air temperature 52 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.)

Attachment B
E&E ASC Analytical Data Package

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

Date/Time 2/24/04 1:30

Inspection personnel RC Becken

Other personnel on site Andy Murphy Dave Carrier, Steve Franks

Weather Conditions clear sunny 28 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	13	ft
PW-2	(ON)	OFF	4	ft
PW-3	(ON)	OFF	5	ft
PW-4	(ON)	OFF	6	ft
PW-5	(ON)	OFF	7	ft
PW-6	(ON)	OFF	9	ft
PW-7	(ON)	OFF	5	ft
PW-8	(ON)	OFF	8	ft
	Equalization tank		4	ft

Influent Flow Rate 56 gpm

Influent Totalizer Reading 9748031 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 8///8 psi

Bag filter bottom pressure 0///0 psi

Ecology and Environment, Inc.
Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01A **Sample** DL **Matrix** Water **Test** 1_ASP_4.2_VOA_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2 **Method:** OLM04.2_VOA **Prep Method:**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Dichlorodifluoromethane	ND		250	µg/L	25	2/13/2004 10:09:00 AM	PERRY_040213A	DWW
Chloromethane	ND		250	µg/L	25			
Vinyl chloride	ND		250	µg/L	25			
Bromomethane	ND		250	µg/L	25			
Chloroethane	ND		250	µg/L	25			
Trichlorofluoromethane	ND		250	µg/L	25			
1,1-Dichloroethene	ND		250	µg/L	25			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	µg/L	25			
Acetone	ND		250	µg/L	25			
Carbon disulfide	ND		250	µg/L	25			
Methyl acetate	ND		250	µg/L	25			
Methylene chloride	ND		250	µg/L	25			
trans-1,2-Dichloroethene	ND		250	µg/L	25			
Methyl tert-butyl ether	ND		250	µg/L	25			
1,1-Dichloroethane	ND		250	µg/L	25			
cis-1,2-Dichloroethene	ND		250	µg/L	25			
2-Butanone	ND		250	µg/L	25			
Chloroform	ND		250	µg/L	25			
1,1,1-Trichloroethane	ND		250	µg/L	25			
Cyclohexane	ND		250	µg/L	25			
Carbon tetrachloride	ND		250	µg/L	25			
Benzene	ND		250	µg/L	25			
1,2-Dichloroethane	ND		250	µg/L	25			
Trichloroethene	ND		250	µg/L	25			
Methylcyclohexane	ND		250	µg/L	25			
1,2-Dichloropropane	ND		250	µg/L	25			
Bromodichloromethane	ND		250	µg/L	25			
cis-1,3-Dichloropropene	ND		250	µg/L	25			
4-Methyl-2-pentanone	ND		250	µg/L	25			
Toluene	ND		250	µg/L	25			
trans-1,3-Dichloropropene	ND		250	µg/L	25			
1,1,2-Trichloroethane	ND		250	µg/L	25			
Tetrachloroethene	3170		250	µg/L	25			
2-Hexanone	ND		250	µg/L	25			
Dibromochloromethane	ND		250	µg/L	25			
1,2-Dibromoethane	ND		250	µg/L	25			
Chlorobenzene	ND		250	µg/L	25			
Ethylbenzene	ND		250	µg/L	25			

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 exceeds Highest Calibration Standard
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

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01A **Sample** DL **Matrix** Water **Test** 1_ASP_4.2_VOA_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2 **Method: OLM04.2_VOA** **Prep Method:**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Xylenes, Total	ND		250	µg/L	25			
Styrene	ND		250	µg/L	25			
Bromoform	ND		250	µg/L	25			
Isopropylbenzene	ND		250	µg/L	25			
1,1,2,2-Tetrachloroethane	ND		250	µg/L	25			
1,3-Dichlorobenzene	ND		250	µg/L	25			
1,4-Dichlorobenzene	ND		250	µg/L	25			
1,2-Dichlorobenzene	ND		250	µg/L	25			
1,2-Dibromo-3-chloropropane	ND		250	µg/L	25			
1,2,4-Trichlorobenzene	ND		250	µg/L	25			
Surr:Toluene-d8	99		88 - 110	%REC	25	2/13/2004 10:09:00 AM	PERRY_040213A	DWW
Surr:4-Bromofluorobenzene	96		86 - 115	%REC	25			
Surr:1,2-Dichloroethane-d4	97		76 - 114	%REC	25			

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 exceeds Highest Calibration Standard
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

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01A **Sample** SAMP **Matrix** Water **Test** 1_ASP_4.2_VOA_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2 **Method: OLM04.2_VOA** **Prep Method:**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Dichlorodifluoromethane	ND		10.0	µg/L	1	2/13/2004 4:19:00 AM	PERRY_040212A	MRD
Chloromethane	ND		10.0	µg/L	1			
Vinyl chloride	ND		10.0	µg/L	1			
Bromomethane	ND		10.0	µg/L	1			
Chloroethane	ND		10.0	µg/L	1			
Trichlorofluoromethane	ND		10.0	µg/L	1			
1,1-Dichloroethene	ND		10.0	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	µg/L	1			
Acetone	ND		10.0	µg/L	1			
Carbon disulfide	ND		10.0	µg/L	1			
Methyl acetate	ND		10.0	µg/L	1			
Methylene chloride	ND		10.0	µg/L	1			
trans-1,2-Dichloroethene	ND		10.0	µg/L	1			
Methyl tert-butyl ether	64.6		10.0	µg/L	1			
1,1-Dichloroethane	ND		10.0	µg/L	1			
cis-1,2-Dichloroethene	ND		10.0	µg/L	1			
2-Butanone	ND		10.0	µg/L	1			
Chloroform	ND		10.0	µg/L	1			
1,1,1-Trichloroethane	ND		10.0	µg/L	1			
Cyclohexane	ND		10.0	µg/L	1			
Carbon tetrachloride	ND		10.0	µg/L	1			
Benzene	ND		10.0	µg/L	1			
1,2-Dichloroethane	ND		10.0	µg/L	1			
Trichloroethene	114		10.0	µg/L	1			
Methylcyclohexane	ND		10.0	µg/L	1			
1,2-Dichloropropane	ND		10.0	µg/L	1			
Bromodichloromethane	ND		10.0	µg/L	1			
cis-1,3-Dichloropropene	ND		10.0	µg/L	1			
4-Methyl-2-pentanone	ND		10.0	µg/L	1			
Toluene	ND		10.0	µg/L	1			
trans-1,3-Dichloropropene	ND		10.0	µg/L	1			
1,1,2-Trichloroethane	ND		10.0	µg/L	1			
Tetrachloroethene	8170	E	10.0	µg/L	1			
2-Hexanone	ND		10.0	µg/L	1			
Dibromochloromethane	ND		10.0	µg/L	1			
1,2-Dibromoethane	ND		10.0	µg/L	1			
Chlorobenzene	ND		10.0	µg/L	1			
Ethylbenzene	ND		10.0	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 exceeds Highest Calibration Standard
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

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01A **Sample** SAMP **Matrix** Water **Test** 1_ASP_4.2_VOA_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2 **Method:** OLM04.2_VOA **Prep Method:**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Xylenes, Total	ND		10.0	µg/L	1			
Styrene	ND		10.0	µg/L	1			
Bromoform	ND		10.0	µg/L	1			
Isopropylbenzene	ND		10.0	µg/L	1			
1,1,2,2-Tetrachloroethane	ND		10.0	µg/L	1			
1,3-Dichlorobenzene	ND		10.0	µg/L	1			
1,4-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		10.0	µg/L	1			
1,2,4-Trichlorobenzene	ND		10.0	µg/L	1			
Surr:Toluene-d8	108		88 - 110	%REC	1	2/13/2004 4:19:00 AM	PERRY_040212A	MRD
Surr:4-Bromofluorobenzene	100		86 - 115	%REC	1			
Surr:1,2-Dichloroethane-d4	105		76 - 114	%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 exceeds Highest Calibration Standard
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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Analytical Services Center

4493 Walden Avenue
Lancaster, New 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone (716)

C[illegible]: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01B **Sample** SAMP **Matrix** Water **Test** 1_ILM04.1_HG_W

MERCURY ANALYSIS BY METHOD ILM04.1 **Method: ILM04.1_HG** **Prep Method: ILM04.1_HG**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Mercury	ND		0.200	µg/L	1	2/25/2004 11:41:53 AM	LEEMAN_040225A	JLS

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
P [illegible]lue Exceeds Maximum Contaminant Level
[illegible]le Column Analysis
[illegible]troleum 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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01B **Sample** SAMP **Matrix** Water **Test** 1_ILM04.1_TAL_W

ICP METALS ANALYSIS BY METHOD ILM04.1 **Method: ILM04.1_MET** **Prep Method: ILM04.1_MET**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Aluminum	ND		200	µg/L	1	2/25/2004 10:09:30 PM	OPTIMA3300_040225D	CMO
Calcium	153000		5000	µg/L	1			
Cobalt	ND		50.0	µg/L	1			
Copper	ND		25.0	µg/L	1			
Iron	299		100	µg/L	1			
Lead	ND		3.00	µg/L	1			
Magnesium	24800		5000	µg/L	1			
Manganese	370		15.0	µg/L	1			
Nickel	ND		40.0	µg/L	1			
Potassium	7610		5000	µg/L	1			
Silver	ND		10.0	µg/L	1			
Sodium	234000		5000	µg/L	1			
Vanadium	ND		50.0	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 exceeds Highest Calibration Standard
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 #: 3.1.9.6 - 2/25/2004 10:00:00 PM

Printed: Monday, March 01, 2004 4:01:56 PM

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Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample **AS INFLUENT**
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01C **Sample** SAMP **Matrix** Water **Test** 1_ILM04.1_CN_W

TOTAL CYANIDE BY ILM04.1 **Method: ILM04.1_CN** **Prep Method: ILM04.1_CN**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Cyanide	ND		10	µg/L	1	2/16/2004 1:28:58 PM	LACHAT_CN_040216A	LMW

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
[illegible]lue Exceeds Maximum Contaminant Level
[illegible]gle Column Analysis
[illegible]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 matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

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Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01D **Sample** SAMP **Matrix** Water **Test** 1_130.2_HARD_W

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Hardness (As CaCO3)	492		1.00	mg/L	1	2/27/2004	WC_HARDNESS_040227A	LMW

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H [illegible]alue Exceeds Maximum Contaminant Level
[illegible]gle Column Analysis
[illegible]etroleum 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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

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Laboratory Results

Analytical Services Center
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NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample **AS INFLUENT**
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01D **Sample** SAMP **Matrix** Water **Test** 1_160.1_TDS_W

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Total Dissolved Solids (Residue, Filterable)	1200		10	mg/L	1	2/12/2004	SARTORIUS_TDS_040212	LMH

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
[illegible] Column Analysis
[illegible]troleum 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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS INFLUENT
Alt. Client ID:
Collection 2/9/2004 9:22:00 AM **% Moist:**

Lab ID: 0402090-01D **Sample** SAMP **Matrix** Water **Test** 1_160.2_TSS_W

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Total Suspended Solids (Residue, Non-Filterable)	7.0		4.0	mg/L	1	2/12/2004	SARTORIUS_TSS_040212	LMH

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
'alue Exceeds Maximum Contaminant Level
ngle Column Analysis
- 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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02A **Sample** SAMP **Matrix** Water **Test** 1_ASP_4.2_VOA_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2 **Method:** OLM04.2_VOA **Prep Method:**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Dichlorodifluoromethane	ND		10.0	µg/L	1	2/13/2004 3:49:00 AM	PERRY_040212A	MRD
Chloromethane	ND		10.0	µg/L	1			
Vinyl chloride	ND		10.0	µg/L	1			
Bromomethane	ND		10.0	µg/L	1			
Chloroethane	ND		10.0	µg/L	1			
Trichlorofluoromethane	ND		10.0	µg/L	1			
1,1-Dichloroethene	ND		10.0	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	µg/L	1			
Acetone	ND		10.0	µg/L	1			
Carbon disulfide	ND		10.0	µg/L	1			
Methyl acetate	ND		10.0	µg/L	1			
Methylene chloride	ND		10.0	µg/L	1			
trans-1,2-Dichloroethene	ND		10.0	µg/L	1			
Methyl tert-butyl ether	ND		10.0	µg/L	1			
1,1-Dichloroethane	ND		10.0	µg/L	1			
cis-1,2-Dichloroethene	ND		10.0	µg/L	1			
2-Butanone	ND		10.0	µg/L	1			
Chloroform	ND		10.0	µg/L	1			
1,1,1-Trichloroethane	ND		10.0	µg/L	1			
Cyclohexane	ND		10.0	µg/L	1			
Carbon tetrachloride	ND		10.0	µg/L	1			
[illegible]ene	ND		10.0	µg/L	1			
1,2-Dichloroethane	ND		10.0	µg/L	1			
Trichloroethene	ND		10.0	µg/L	1			
Methylcyclohexane	ND		10.0	µg/L	1			
1,2-Dichloropropane	ND		10.0	µg/L	1			
Bromodichloromethane	ND		10.0	µg/L	1			
cis-1,3-Dichloropropene	ND		10.0	µg/L	1			
4-Methyl-2-pentanone	ND		10.0	µg/L	1			
Toluene	ND		10.0	µg/L	1			
trans-1,3-Dichloropropene	ND		10.0	µg/L	1			
1,1,2-Trichloroethane	ND		10.0	µg/L	1			
Tetrachloroethene	26.7		10.0	µg/L	1			
2-Hexanone	ND		10.0	µg/L	1			
Dibromochloromethane	ND		10.0	µg/L	1			
1,2-Dibromoethane	ND		10.0	µg/L	1			
Chlorobenzene	ND		10.0	µg/L	1			
Ethylbenzene	ND		10.0	µg/L	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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02A **Sample** SAMP **Matrix** Water **Test** 1_ASP_4.2_VOA_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2 **Method:** OLM04.2_VOA **Prep Method:**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Xylenes, Total	ND		10.0	µg/L	1			
Styrene	ND		10.0	µg/L	1			
Bromoform	ND		10.0	µg/L	1			
Isopropylbenzene	ND		10.0	µg/L	1			
1,1,2,2-Tetrachloroethane	ND		10.0	µg/L	1			
1,3-Dichlorobenzene	ND		10.0	µg/L	1			
1,4-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		10.0	µg/L	1			
1,2,4-Trichlorobenzene	ND		10.0	µg/L	1			
Surr:Toluene-d8	103		88 - 110	%REC	1	2/13/2004 3:49:00 AM	PERRY_040212A	MRD
Surr:4-Bromofluorobenzene	96		86 - 115	%REC	1			
Surr:1,2-Dichloroethane-d4	99		76 - 114	%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 exceeds Highest Calibration Standard
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

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample **AS EFFLUENT**
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02B **Sample** SAMP **Matrix** Water **Test** 1_ILM04.1_HG_W

MERCURY ANALYSIS BY METHOD ILM04.1 **Method: ILM04.1_HG** **Prep Method: ILM04.1_HG**

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Mercury	ND		0.200	µg/L	1	2/25/2004 11:43:19 AM	LEEMAN_040225A	JLS

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
Value Exceeds Maximum Contaminant Level
Single Column Analysis
[illegible] - 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 matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02B **Sample** SAMP **Matrix** Water **Test** 1_ILM04.1_TAL_W

ICP METALS ANALYSIS BY METHOD ILM04.1 **Method:** ILM04.1_MET **Prep Method:** ILM04.1_MET

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Aluminum	ND		200	µg/L	1	2/26/2004 6:05:37 PM	OPTIMA3300_040226C	CMO
Calcium	155000		5000	µg/L	1			
Cobalt	ND		50.0	µg/L	1			
Copper	25.3		25.0	µg/L	1			
Iron	399		100	µg/L	1			
Lead	4.07		3.00	µg/L	1	2/27/2004 2:08:52 PM	OPTIMA3300_040227B	
Magnesium	24600		5000	µg/L	1	2/26/2004 6:05:37 PM	OPTIMA3300_040226C	
Manganese	381		15.0	µg/L	1			
Nickel	ND		40.0	µg/L	1			
Potassium	7630		5000	µg/L	1			
Silver	ND		10.0	µg/L	1			
Sodium	238000		5000	µg/L	1			
Vanadium	ND		50.0	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 exceeds Highest Calibration Standard
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

Ecology and Environment, [illegible].

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

[illegible]t: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02C **Sample** SAMP **Matrix** Water **Test** 1_ILM04.1_CN_W

TOTAL CYANIDE BY ILM04.1 **Method:** ILM04.1_CN **Prep Method:** ILM04.1_CN

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Cyanide	ND		10	µg/L	1	2/16/2004 1:31:50 PM	LACHAT_CN_040216A	LMW

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
'' - Value Exceeds Maximum Contaminant Level
Single Column Analysis
[illegible] - 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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

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4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02D **Sample** SAMP **Matrix** Water **Test** 1_130.2_HARD_W

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Hardness (As CaCO3)	488		1.00	mg/L	1	2/27/2004	WC_HARDNESS_040227A	LMW

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
' - Value Exceeds Maximum Contaminant Level
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 exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
R - RPD outside recovery limits

Ecology and Environment, I[illegible].

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]t: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02D **Sample** SAMP **Matrix** Water **Test** 1_160.1_TDS_W

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Total Dissolved Solids (Residue, Filterable)	1200		10	mg/L	1	2/12/2004	SARTORIUS_TDS_040212	LMH

Definitions:

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DF - Dilution Factor
Value Exceeds Maximum Contaminant Level
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 exceeds Highest Calibration Standard
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ND - Not Detected at the Reporting Limit
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Laboratory Results

Analytical Services Center
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Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]t: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample AS EFFLUENT
Alt. Client ID:
Collection 2/9/2004 9:27:00 AM **% Moist:**

Lab ID: 0402090-02D **Sample** SAMP **Matrix** Water **Test** 1_160.2_TSS_W

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Total Suspended Solids (Residue, Non-Filterable)	7.0		4.0	mg/L	1	2/12/2004	SARTORIUS_TSS_040212	LMH

Definitions:

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- Single Column Analysis
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J - Estimated value
NC - Not Calculated
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
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Ecology and Environment, I[illegible].

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]t: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample PRE-GAC
Alt. Client ID:
Collection 2/9/2004 10:18:00 **% Moist:**

Lab ID: 0402090-03A **Sample** DL **Matrix** Air **Test** 1_TO14_A

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
1,1,1-Trichloroethane	ND		125	ppbv	25	2/12/2004 3:27:00 PM	JAKE_040212A	DWW
1,1,2,2-Tetrachloroethane	ND		125	ppbv	25			
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		125	ppbv	25			
1,1,2-Trichloroethane	ND		125	ppbv	25			
1,1-Dichloroethane	ND		125	ppbv	25			
1,1-Dichloroethene	ND		125	ppbv	25			
1,2,4-Trichlorobenzene	ND		125	ppbv	25			
1,2,4-Trimethylbenzene	ND		125	ppbv	25			
1,2-Dibromoethane	ND		125	ppbv	25			
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	ND		125	ppbv	25			
1,2-Dichlorobenzene	ND		125	ppbv	25			
1,2-Dichloroethane	ND		125	ppbv	25			
1,2-Dichloropropane	ND		125	ppbv	25			
1,3,5-Trimethylbenzene	ND		125	ppbv	25			
1,3-Dichlorobenzene	ND		125	ppbv	25			
1,4-Dichlorobenzene	ND		125	ppbv	25			
Benzene	ND		125	ppbv	25			
Benzyl chloride	ND		125	ppbv	25			
Bromomethane	ND		125	ppbv	25			
C[illegible]bon tetrachloride	ND		125	ppbv	25			
[illegible]robenzene	ND		125	ppbv	25			
Chloroethane	ND		125	ppbv	25			
Chloroform	ND		125	ppbv	25			
Chloromethane	ND		125	ppbv	25			
cis-1,2-Dichloroethene	ND		125	ppbv	25			
cis-1,3-Dichloropropene	ND		125	ppbv	25			
Dichlorodifluoromethane	ND		125	ppbv	25			
Ethylbenzene	ND		125	ppbv	25			
Hexachlorobutadiene	ND		125	ppbv	25			
m,p-Xylene	ND		250	ppbv	25			
Methylene chloride	ND		125	ppbv	25			
o-Xylene	ND		125	ppbv	25			
Styrene	ND		125	ppbv	25			
Tetrachloroethene	1100		125	ppbv	25			
Toluene	ND		125	ppbv	25			
trans-1,2-Dichloroethene	ND		125	ppbv	25			
trans-1,3-Dichloropropene	ND		125	ppbv	25			

Definitions:

* - Recovery outside QC limits
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D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
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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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Analytical Services Center

4493 Walden Avenue
Lancaster, New 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone (716)

[illegible]t: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample PRE-GAC
Alt. Client ID:
Collection 2/9/2004 10:18:00 % Moist:

Lab ID: 0402090-03A Sample DL Matrix Air Test 1_TO14_A

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Trichloroethene	ND		125	ppbv	25			
Trichlorofluoromethane	ND		125	ppbv	25			
Vinyl chloride	ND		125	ppbv	25			
Xylenes, Total	ND		375	ppbv	25			
Surr:1,2-Dichloroethane-d4	102		80 - 120	%REC	25	2/12/2004 3:27:00 PM	JAKE_040212A	DWW
Surr:4-Bromofluorobenzene	103		80 - 120	%REC	25			
Surr:Toluene-d8	98		80 - 120	%REC	25			

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 exceeds Highest Calibration Standard
H - Value Exceeds Maximum Contaminant Level
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M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
`[illegible]P - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab Project: **0402090**
Mr. C's Dry Cleaners

Client Sample **PRE-GAC**
Alt. Client ID:
Collection 2/9/2004 10:18:00 **% Moist:**

Lab ID: 0402090-03A **Sample** SAMP **Matrix** Air **Test** 1_TO14_A

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
1,1,1-Trichloroethane	ND		25.0	ppbv	5	2/12/2004 12:16:00 PM	JAKE_040212A	DWW
1,1,2,2-Tetrachloroethane	ND		25.0	ppbv	5			
1,1,2-Trichloro-1,2,2-trifluoroetha ne	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-tetrafluoroet hane	ND		25.0	ppbv	5			
1,2-Dichlorobenzene	ND		25.0	ppbv	5			
1,2-Dichloroethane	ND		25.0	ppbv	5			
1,2-Dichloropropane	ND		25.0	ppbv	5			
1,3,5-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	ND		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	955	E	25.0	ppbv	5			
Toluene	ND		25.0	ppbv	5			
trans-1,2-Dichloroethene	ND		25.0	ppbv	5			
trans-1,3-Dichloropropene	ND		25.0	ppbv	5			

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
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H - Value Exceeds Maximum Contaminant Level
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Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

Client: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample PRE-GAC
Alt. Client ID:
Collection 2/9/2004 10:18:00 **% Moist:**

Lab ID: 0402090-03A **Sample** SAMP **Matrix** Air **Test** 1_TO14_A

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Trichloroethene	68.8		25.0	ppbv	5			
Trichlorofluoromethane	ND		25.0	ppbv	5			
Vinyl chloride	ND		25.0	ppbv	5			
Xylenes, Total	ND		75.0	ppbv	5			
Surr:1,2-Dichloroethane-d4	104		80 - 120	%REC	5	2/12/2004 12:16:00 PM	JAKE_040212A	DWW
Surr:4-Bromofluorobenzene	117		80 - 120	%REC	5			
Surr:Toluene-d8	98		80 - 120	%REC	5			

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 exceeds Highest Calibration Standard
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
P - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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[illegible] Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

C[illegible]t: E and E Buffalo Office
Lab **0402090**
Project: Mr. C's Dry Cleaners

Client Sample **POST-GAC**
Alt. Client ID:
Collection 2/9/2004 10:18:00 **% Moist:**

Lab ID: 0402090-04A **Sample** SAMP **Matrix** Air **Test** 1_TO14_A

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
1,1,1-Trichloroethane	ND		5.00	ppbv	1	2/12/2004 2:14:00 PM	JAKE_040212A	DWW
1,1,2,2-Tetrachloroethane	ND		5.00	ppbv	1			
1,1,2-Trichloro-1,2,2-trifluoroetha ne	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	ND		5.00	ppbv	1			
1,2,4-Trichlorobenzene	ND		5.00	ppbv	1			
1,2,4-Trimethylbenzene	ND		5.00	ppbv	1			
1,2-Dibromoethane	ND		5.00	ppbv	1			
1,2-Dichloro-1,1,2,2-tetrafluoroet hane	ND		5.00	ppbv	1			
1,2-Dichlorobenzene	ND		5.00	ppbv	1			
1,2-Dichloroethane	ND		5.00	ppbv	1			
1,2-Dichloropropane	ND		5.00	ppbv	1			
1,3,5-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	ND		5.00	ppbv	1			
[illegible]on tetrachloride	ND		5.00	ppbv	1			
[illegible]robenzene	ND		5.00	ppbv	1			
Chloroethane	ND		5.00	ppbv	1			
Chloroform	ND		5.00	ppbv	1			
Chloromethane	ND		5.00	ppbv	1			
cis-1,2-Dichloroethene	ND		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	ND		5.00	ppbv	1			
o-Xylene	ND		5.00	ppbv	1			
Styrene	ND		5.00	ppbv	1			
Tetrachloroethene	35.6		5.00	ppbv	1			
Toluene	ND		5.00	ppbv	1			
trans-1,2-Dichloroethene	ND		5.00	ppbv	1			
trans-1,3-Dichloropropene	ND		5.00	ppbv	1			

Definitions:

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R - RPD outside recovery limits

LIMS Version #: 3.1.9.6 - 2/25/2004 10:00:00 PM

Printed: Monday, March 01, 2004 4:02:13 PM

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Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New 14086

NYS ELAP ID#: 10486
Phone (716)

[illegible]t: E and E Buffalo Office
Lab 0402090
Project: Mr. C's Dry Cleaners

Client Sample POST-GAC
Alt. Client ID:
Collection 2/9/2004 10:18:00 **% Moist:**

Lab ID: 0402090-04A **Sample** SAMP **Matrix** Air **Test** 1_TO14_A

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

Analyte	Result	Q	Limit	Units	DF	Date	Run Batch	Analyst
Trichloroethene	ND		5.00	ppbv	1			
Trichlorofluoromethane	ND		5.00	ppbv	1			
Vinyl chloride	ND		5.00	ppbv	1			
Xylenes, Total	ND		15.0	ppbv	1			
Surr:1,2-Dichloroethane-d4	104		80 - 120	%REC	1	2/12/2004 2:14:00 PM	JAKE_040212A	DWW
Surr:4-Bromofluorobenzene	99		80 - 120	%REC	1			
Surr:Toluene-d8	99		80 - 120	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
[illegible]P - Petroleum Pattern is not present
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