



ecology and environment engineering, p.c.

International Specialists in the Environment

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July 9, 2014

Mr. William Welling, Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233 - 7013

Re: Mr. C's Dry Cleaners Site, Contract # D007617, Site # 9-15-157
June 2014 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the May 2014 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 9-15-157, located in the Village of East Aurora, New York. Copies of bi-monthly inspection reports prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), are provided in Attachment A. Selected pages from the individual analytical data packages prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as Attachment B and C. The full analytical reports along with QA/QC information will be retained by EEEPC. The site utility information is provided at Attachment D.

In review of the on-site treatment system operations, monitoring and maintenance for June 2014, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations Information

- Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100% operational up-time (Table 1) and the treatment of contaminated groundwater during that period totaling of 223,930 gallons (Table 2) for June 2014.
- Checklists for system inspections from IEG are provided as Attachment A for 6/03/14, 6/16/14, and 6/30/14.
- The leakage was still detected in ball valve near Equalizer Tank. Repairs will be made in July 2014.
- The surface concrete of PZ-2B was damaged due to winter salt and plow truck. Assessment and repairs to be performed in July 2014.
- Bag filters were changed on July 1st.
- PW-6 still remains off during the operation period due to maintenance problems.
- PW-7 remains off during the reporting period due to "pilot bioremediation injection program. PW-5 was returned to service on June 10, 2014.

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- Initial compliance samples were taken on June 10, 2014 (Attachment B) and the analytical results were received from SAI on June 17, 2014. The results indicated non-compliance issues of Tetrachloroethene with the effluent concentration at 53 µg/L and Cis-1,2,-dichloroethene with the effluent concentration at 56 µg/L as shown on Table 4a. The maximum contaminant concentration allowed is 10µg/L. Corrective cleanup actions then were initiated per the requirements of the Site Management Plan (SMP). The corrective actions performed included inspection of the overall treatment system, pressure washing the individual stripper trays and post cleaning review of the system differential pressures.
- After completion of the initial corrective actions, a second round of compliance sampling was performed on June 19, 2014 (Attachment C) and the analytical results were received from SAI June 26, 2014. The results comply with the daily maximum effluent discharge criteria requirements in the site specific SPDES Equivalency Permit (Table 3). Methyl tert-butyl ether, Cis-1,2,-dichloroethene, trichloroethene, and tetrachloroethene were detected at above criteria concentrations in the influent results. In the effluent results, Methyl tert-butyl ether, Cis-1,2,-dichloroethene, and tetrachloroethene were detected at the concentrations of 1.3, 3.8 and 1.8 ug/L respectively as shown on Table 4b. Effluent results are all in compliance with the site SPDES discharge requirements.
- The analytical summary results of June 19, 2014 revealed the total volatile organic contaminant concentrations of the influent to be 440.6 µg/L or 440.6 ppb. In review of the effluent results no detectible concentrations for any of the contaminants of concern. The summary of influent and effluent contaminant concentrations for the June 2014 sampling is presented in Table 4-2.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 0.81 lbs. of targeted contaminants from the groundwater below the site in the month of June 2014 and the cleanup effectiveness was 98.43%. The calculations and data for the month are presented in Table 5.

Agway Site Remedial Information

- Agway SVE shed and ancillary equipment disassembled and removed during December 2013.
- Above ground and below ground piping was removed and the area regraded for positive drainage in June 2014.

Subslab Depressurization Systems (SSDS) – First Presbyterian Church and 27 Whaley Ave. sites and others

- The systems remain operational at the 1st Presbyterian Church. The church has our contact information in case something with the SSDS units.
- Property owners at 27 Whaley Ave. have not returned our calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- The GES, Inc., a NYSDEC Callout Contractor has been assigned to perform the installation of the SSDS units at the 578-580 and 572-576 Main Street locations. EEEPC met with GES representatives on June 27, to review each of the sites and discuss the schedule of installation with the property owners. Installation work in planned for the middle of July 2014.

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- Properties sampled under the SVII 2014 have been reviewed by NYSDOH. Based on that review four other properties have been recommended for vapor mitigation. EEEPC will initiate review of these four properties for the design of the SSDS units. Site review and designs to be performed in July 2014.
- The Mr. C's treatment facility SSDS unit became operational on April 15, 2014. All communication testing was within acceptable limits except near the southwest corner of the outside wall of the treatment area, short circuiting of air through an expansion joint on the exterior wall is the probable cause. Sealing repairs to be performed in July 2014.

Status of Bioremediation Direct Push Injection Work

- Pilot study bioremediation sampling was performed April 7-8, 2014 and the next round of microtraps were deployed in June 2014.
- The last 2014 bioremediation performance report to be issued to NYSDEC in August 2014.

Mr. C's Energy Usage Information

- A copy of the site utility costs from the Mr. C's remedial operations for January through December 2014 are provided as Attachment D.

Soil Vapor Intrusion Investigation Program (Phase 2)

- After client comment of the draft report, the Final Phase 2 SVII Report was issued on June 3, 2014.

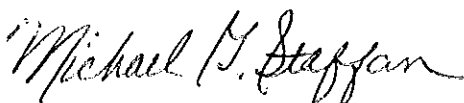
Site Management Plan

- Issued the final Mr. C's SMP to NYSDEC on December 4, 2013.
- EEEPC to review the SMP for site changes or technical issues for revisions in December 2014.

If you have questions regarding the June 2014 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,

Ecology and Environment Engineering, P. C.



Michael G. Steffan
Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments
D. Iyer, IEG - w/attachments
CTF- EN-003229-0001-03TTO

Table 1
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
System Operational Time

Month	Reporting Hours	Operational Up-time
(Up-time from inception to 12/31/13)	95,809.50	96.26%
January 9, 2014 - February 4, 2014	616	98.72%
February 4, 2014 - March 3, 2014	648	100.00%
March 3, 2014 - March 24, 2014	504	100.00%
March 24, 2014 - May 5, 2014	764	75.79%
May 5, 2014 - June 3, 2014	696	100.00%
June 3, 2014 - June 30, 2014	648	100.00%
	0	
	0	
	0	
	0	
	0	
	0	
	0	
Total Hours from System Startup '2/02'	99,685.50	
Average Operational Up-time from startup =		96.17%
Average Operational Up-time for 2014 =		93.90%

- NOTES:**
1. Up-time based as percentage of total reporting hours.
 2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.
 3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.
 4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

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

Month	Actual Period	Gallons (Treated Effluent)
Total - Inception to December 2013	9/5/02 - 12/31/13	121,703,098
January 2014 ³	1/9/14 - 2/4/14	257,147
February 2014 ³	2/4/14 - 3/3/14	260,198
March 2014 ³	3/3/14 - 3/24/14	205,583
April 2014 ³	3/24/14 - 5/5/14	317,721
May 2014 ³	5/5/14 - 6/3/14	274,096
June 2014	6/3/14 - 6/30/14	223,930
July 2014		0
August 2014		0
September 2014		0
October 2014		0
November 2014		0
December 2014		0
Total Gallons Treated in 2014		1,538,675
Total Gallons Treated To Date:		123,241,773

NOTES:

1. System operated by Tyree Organization Ltd. From 9/02 - 9/03.
2. System operated by O&M Enterprises from 10/03 - 7/07.
3. System operated by IEG PLLC from 7/07 - present.

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

Parameter/Analyte	Daily Maximum ¹	Units	June 11, 2014 - Effluent Analytical Values - Compliance	June 20, 2014 - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	8,294	8,294
pH	6.0 - 9.0	standard units	7.90	8.30
1,1 Dichloroethene	10	µg/L	ND(<1.0)	ND(<1.0)
1,1 Dichloroethane	10	µg/L	ND(<1.0)	ND(<1.0)
cis-1,2-dichloroethene	10	µg/L	56	3.8
Trichloroethene	10	µg/L	3.5	ND(<1.0)
Tetrachloroethene	10	µg/L	53	1.8
Vinyl Chloride	10	µg/L	0.57	ND(<1.0)
Benzene	5	µg/L	ND(<1.0)	ND(<1.0)
Ethylbenzene	5	µg/L	ND(<1.0)	ND(<1.0)
Methylene Chloride	10	µg/L	ND(<1.0)	ND(<1.0)
1,1,1 Trichloroethane	10	µg/L	ND(<1.0)	ND(<1.0)
Toluene	5	µg/L	ND(<1.0)	ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	2.6	1.3
o-Xylene ²	5	µg/L	NA	NA
m, p-Xylene ²	10	µg/L	NA	NA
Total Xylenes	NA	ug/L	ND(<1.0)	ND(<1.0)
Iron, total	600	µg/L	NA ⁹	NA ⁹
Aluminum	4,000	µg/L	NA ⁹	NA ⁹
Copper	48	µg/L	NA ⁹	NA ⁹
Lead	11	µg/L	NA ⁹	NA ⁹
Manganese	2,000	µg/L	NA ⁹	NA ⁹
Silver	100	µg/L	NA ⁹	NA ⁹
Vanadium	28	µg/L	NA ⁹	NA ⁹
Zinc	230	µg/L	NA ⁹	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹	NA ⁹
Hardness	N/A	mg/L	500	470
Cyanide, Free	10	µg/L	NA ⁹	NA ⁹

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
2. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
3. Shaded cells indicate that analytical value exceeds the "Daily Maximum."
4. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
5. "NA" indicates that analyses were not performed and data is unavailable.
6. Average flows based on effluent readings June 3rd, 2014 through June 30th, 2014. Total gallons: 223,930 divided by 27 operating days.
7. "E" indicates an estimated value below the detection limit.
8. "B" indicates analyte found in the associated blank.
9. Removed from the required analysis list by NYSDEC Region 9 in February 2005.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements
NR Indicates Not Reported by Lab

Table 4a
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
June 2014 VOC Analytical Summary

Compound	Based on the 06/10/14 Effluent Sampling Results					
	Influent Concentration*		Effluent Concentration**		Cleanup Efficiency***	
	(ug/L)		(ug/L)		(%)	
Acetone	ND (<25)	U	ND (<5.0)	U	NA	
Benzene	ND (<5)	U	ND (<1.0)	U	NA	
2-Butanone	25	U	ND (<5.0)	U	NA	
cis-1, 2-Dichloroethene	150		56		62.67%	
Chloroform	ND (<5)	U	ND (<1.0)	U	NA	
Methylene chloride	ND (<5)	U	ND (<1.0)	U	NA	
Methyl tert-butyl ether (MTBE)	3.3	J	2.6		21.21%	
Tetrachloroethene (PCE)	220.0		53		75.91%	
Toluene	ND (<5)	U	ND (<1.0)	U	NA	
Trichloroethene (TCE)	13.0		3.5	U	73.08%	
Carbon Disulfide	ND (<5)	U	ND (<1.0)	U	NA	
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<5)	U	ND (<1.0)	U	NA	
2-Hexanone	25	U	ND (<5.0)	U	NA	
4-Methyl-2-pentanone	25	U	ND (<5.0)	U	NA	
Cyclohexane	ND (<5)	U	ND (<1.0)	U	NA	
trans-1,2-dichloroethene	ND (<5)	U	ND (<1.0)	U	NA	
Chlorobenzene	ND (<5)	U	ND (<1.0)	U	NA	
Methylcyclohexane	ND (<5)	U	ND (<1.0)	U	NA	
Methyl acetate	ND (<5)	U	ND (<1.0)	U	NA	
Total Xylenes	ND (<5)	U	ND (<1.0)	U	NA	
<ul style="list-style-type: none"> The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013. 						
		386.3			115.10	70.20%

Notes:

1. "NA" = Not applicable
2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
5. "D" indicates the compound concentration was obtained from a secondary dilution analysis.
6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

Table 4b
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
June 2014 VOC Analytical Summary

Compound	Based on the 06/19/14 Effluent Sampling Results				
	Influent Concentration*		Effluent Concentration**		Cleanup Efficiency***
	(ug/L)		(ug/L)		(%)
Acetone	ND (<25)	U	8.3		NA
Benzene	ND (<5)	U	ND (<1.0)	U	NA
2-Butanone	25	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	160		3.8		97.63%
Chloroform	ND (<5)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<5)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	3.6	J	1.3		63.89%
Tetrachloroethene (PCE)	260.0		1.8		99.31%
Toluene	ND (<5)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	17.0		ND (<1.0)	U	100%
Carbon Disulfide	ND (<5)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<5)	U	ND (<1.0)	U	NA
2-Hexanone	25	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	25	U	ND (<5.0)	U	NA
Cyclohexane	ND (<5)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<5)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<5)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<5)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<5)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<5)	U	ND (<1.0)	U	NA

• The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013.

440.6

6.90

98.43%

- Notes:
1. "NA" = Not applicable
 2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
 3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
 4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
 5. "D" indicates the compound concentration was obtained from a secondary dilution analysis.
 6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

Table 5
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Monthly VOCs Removed From Groundwater

Month	Actual Period	Influent VOCs (µg/L)	Effluent VOCs (µg/L)	VOCs Removed (lbs.)
Total pounds of VOCs removed from inception to December 2013 =				1576.78
January 2014	1/9/14 - 2/4/14	360.0	12.00	0.75
February 2014	2/4/14 - 3/3/14	386.0	7.90	0.82
March 2014	3/3/14 - 3/24/14	402.0	7.20	0.68
April 2014	3/24/14 - 5/5/14	506.0	0.00	1.34
May 2014	5/5/14 - 6/3/14	460.1	6.80	1.04
June 2014	6/3/14 - 6/30/14	440.6	6.90	0.81
July 2014				0.00
August 2014				0.00
September 2014				0.00
October 2014				0.00
November 2014				0.00
December 2014				0.00
Total pounds of VOCs removed from inception =				1,582.21
Total pounds of VOCs removed in 2014 =				5.43

HISTORICAL NOTES:

1. Calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
2. Calculations assume that non-detect values = 0 ug/L.
3. Total VOCs summations include estimated "J" values.
4. Calculations are based on effluent totalizer readings.
5. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
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 7/07.
8. Treatment system operated by IEG from 7/07 to present.

CONVERSIONS:

1 pound = 453.5924 grams
1 gallon = 3.785 liters

Based on the Analytical Results from Each Month:

Pounds of VOCs removed calculated by the following formula:

$$(VOCs_{Influent} - VOCs_{Effluent})(\mu g/L) \cdot (1g/10^6 \mu g) \cdot (1 lb/453.5924 g) \cdot (Monthly\ process\ water)(gal) \cdot (3.785 L/gallon)$$

Attachment A
IEG Weekly Inspection Reports
June 2014

Including:

06/03/14

06/16/14

06/30/14

MR. C's DRY CLEANERS SITE
NYSDEC Site #9-15-157
OM&M: SITE INSPECTION FORM

DATE: 3-Jun-14 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: Carroll Plumbing

WEATHER CONDITIONS: Cloudy, rain, warm OUTSIDE TEMPERATURE (° F): 69

ARE WELL PUMPS OPERATING IN AUTO: YES: NO: If "NO", provide explanation below

PW-6 is OFF due to maintenance problems.

PW-5 and PW-7 are OFF due to injection operation.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: <input type="checkbox"/>	<u>12</u> ft
PW-2	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: <input type="checkbox"/>	<u>13</u> ft
PW-4	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-8	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 5/30/14 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 41 gpm INFLUENT TOTALIZER READING 3,731,412.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 32 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 54 gallons

SEQUESTERING AGENT FEED RATE: 5.0 ml/min METERING PUMP PRESSURE: 2.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>0</u>	<u>0</u> psi	RIGHT:	<u>8</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 INFLUENT PUMP PRESSURE: 13 psi

AIR STRIPPER BLOWER IN USE: #1 #2 AIR STRIPPER PRESSURE: 34.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.018 in. H₂O DISCHARGE PRESSURE: 3.4 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 EFFLUENT FEED PUMP PRESSURE: 2.0 psi

EFFLUENT FLOW RATE: 126 gpm EFFLUENT TOTALIZER READING: 74,693,602 227720 gallons

ARE BUILDING HEATERS IN USE? YES: NO: INSIDE TEMPERATURE (° F): 93

IS SUMP PUMP IN USE: YES: NO: ARE ANY LEAKS PRESENT? YES: NO:

WATER LEVEL IN SUMP: 6.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO:

MR. C's DRY CLEANERS SITE
NYSDEC Site #90150157
SITE INSPECTION FORM

3-Jun-14

SAMPLES COLLECTED? YES: _____ NO: √

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	_____	_____	_____	_____	_____	_____
AIR STRIPPER EFFLUENT:	_____	_____	_____	_____	_____	_____

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 below:

PZ-2B has surface concrete damage from winter conditions.

SUBSLAB SYSTEM

MANOMETER: <u> 2.15 </u> in. WC	west	east	NOTES: <u> cfm = 0.05 x fpm (3" PVC) </u>
(Fan Inlet)	FLOW (fpm): _____	_____	_____
	FLOW (cfm): _____	_____	_____
	VACUUM GAUGE (in WC) _____	_____	_____

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON MR. C's SITE

Remarks: Ball valve near Equalizer Tank has slow leak.

Other Actions: Increased Jesco Pump slightly to: Left 2.5; Right 1.5.

 Replaced burned out Main Control Panel bulb for Jesco Pump switch.

 Blower #2 - shimmed up motor 1/16"; added (2) mounting bolts. Start and run system on Blower #2.

AGWAY

Remarks: Electric Panel, SVE pipes, SAS pipes and plywood enclosure remain on site.

Other Actions: _____

MR. C's DRY CLEANERS SITE
NYSDEC Site #9-15-157
OM&M: SITE INSPECTION FORM

DATE: 16-Jun-14 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (° F): 65

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: IF "NO", provide explanation below

PW-6 is OFF due to maintenance problems.

PW-5 and PW-7 are OFF due to Injection operation.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>6</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 6/10/14 Air Stripper

NOTES: _____

INFLUENT FLOW RATE: 13 gpm INFLUENT TOTALIZER READING 3,909,666.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 22 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 37.5 gallons

SEQUESTERING AGENT FEED RATE: 5.0 ml/min METERING PUMP PRESSURE: 2.0 psi

BAG FILTER PRESSURES:	LEFT:	Top	Bottom	RIGHT:	Top	Bottom
		<u>0</u>	<u>0</u> psi		<u>6</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 12 psi

AIR STRIPPER BLOWER IN USE: #1 _____ #2 AIR STRIPPER PRESSURE: 33.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.015 in. H₂O DISCHARGE PRESSURE: 0.4 in. H₂O

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 2.0 psi

EFFLUENT FLOW RATE: 126 gpm EFFLUENT TOTALIZER READING: 74,811,151 345500 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (° F): 91

IS SUMP PUMP IN USE: YES: NO: _____ ARE ANY LEAKS PRESENT? YES: NO: _____

WATER LEVEL IN SUMP: 7.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

MR. C's DRY CLEANERS SITE
NYSDEC Site #90150157
SITE INSPECTION FORM

16-Jun-14

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	2:00 PM	7.55	6.20	26.5	2650
AIR STRIPPER EFFLUENT:	EFF	2:00 PM	8.55	7.20	26.6	2857

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 below:

PZ-2B has surface concrete damage from winter conditions.

SUBSLAB SYSTEM

MANOMETER: 2.1 in. WC (Fan Inlet)

	west	east
FLOW (fpm):		
FLOW (cfm):		
VACUUM GAUGE (in WC)		

NOTES: cfm = 0.05 x fpm (3" PVC)

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON MR. C's SITE

Remarks: Ball valve near Equalizer Tank has slow leak.

Other Actions: Turned Jesco Pump down slightly: Left 2.25; Right 1.25.

Air Stripper - brushed trays with steel brushes through access ports. Bottom tray is completely occluded.

Swept spruce cones and needles off of Library Parking lot around well groups PW-6 and PW-7 (6/19).

AGWAY

Remarks: (1) drum pallet and (1) plywood remains on Agway Site.

Other Actions:

MR. C's DRY CLEANERS SITE
NYSDEC Site #9-15-157
OM&M: SITE INSPECTION FORM

DATE: 30-Jun-14 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (°F): 80

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below

PW-6 is OFF due to maintenance problems.

PW-5 and PW-7 are OFF due to injection operation.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>8</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft

EQUALIZATION TANK: 5 ft Last Alarm DIT/Condition: 6/16/14 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 0 gpm INFLUENT TOTALIZER READING 4,072,121.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 6 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 10 gallons

SEQUESTERING AGENT FEED RATE: 5.0 ml/min METERING PUMP PRESSURE: 2.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>10 - 0</u>	<u>0</u> psi	RIGHT:	<u>20 - 8</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 14 psi

AIR STRIPPER BLOWER IN USE: #1 _____ #2 AIR STRIPPER PRESSURE: 31.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.02 in. H₂O DISCHARGE PRESSURE: 0.4 in. H₂O

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 2.0 psi

EFFLUENT FLOW RATE: 0.02 gpm EFFLUENT TOTALIZER READING: 74,917,532 452010 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (°F): 97

IS SUMP PUMP IN USE: YES: NO: _____ ARE ANY LEAKS PRESENT? YES: _____ NO:

WATER LEVEL IN SUMP: 7.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

MR. C's DRY CLEANERS SITE
NYSDEC Site #90150157
SITE INSPECTION FORM

30-Jun-14

SAMPLES COLLECTED? YES: _____ NO: ✓

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	_____	_____	_____	_____	_____	_____
AIR STRIPPER EFFLUENT:	_____	_____	_____	_____	_____	_____

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 below:

PZ-2B has surface concrete damage from winter conditions.

SUBSLAB SYSTEM

MANOMETER: <u> 2.1 </u> in. WC (Fan Inlet)	west	east	NOTES: <u> cfm = 0.05 x fpm (3" PVC) </u>
	FLOW (fpm): _____	_____	_____
	FLOW (cfm): _____	_____	_____
VACUUM GAUGE (in WC)	_____	_____	_____

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON MR. C's SITE

Remarks: (1) plywood remains on Agway Site.

Other Actions: Swept spruce cones and needles off of Library Parking Lot around well groups PW-6 and PW-7.
 Changed bag filters (7/1).

AGWAY

Remarks: (1) plywood remains on Agway Site.

Other Actions: Regraded former shed site area and then covered with gravel.

MR. C's DRY CLEANERS SITE
 NYSDEC Site #9-15-157
OM&M: PIEZOMETER WATER LEVEL LOG

Date: 27-Jun-14

Measurements taken by: R. Allen

RW-1	<u>16.30</u> ft	Comments:	
PZ-1A	<u>11.32</u> ft	Comments:	
PZ-1B	<u>11.07</u> ft	Comments:	
PZ-1C	<u>12.22</u> ft	Comments:	
PZ-1D	<u>12.36</u> ft	Comments:	
PW-2	<u>16.30</u> ft	Comments:	
PZ-2A	<u>10.85</u> ft	Comments:	
PZ-2B	<u>11.18</u> ft	Comments:	
PZ-2C	<u>-----</u> ft	Comments:	car parked
MW-7	<u>11.21</u> ft	Comments:	Substitute for 2D
PW-3	<u>16.40</u> ft	Comments:	
PZ-3A	<u>11.37</u> ft	Comments:	
PZ-3B	<u>11.42</u> ft	Comments:	
PZ-3C	<u>11.90</u> ft	Comments:	
PZ-3D	<u>11.45</u> ft	Comments:	
PW-4	<u>20.20</u> ft	Comments:	
PZ-4A	<u>10.88</u> ft	Comments:	
PZ-4B	<u>10.70</u> ft	Comments:	
PZ-4C	<u>-----</u> ft	Comments:	sealed over
PZ-4D	<u>10.33</u> ft	Comments:	

PW-5	<u>-----</u> ft	Comments:	Injection Fluid
PZ-5A	<u>10.44</u> ft	Comments:	
PZ-5B	<u>10.65</u> ft	Comments:	
PZ-5C	<u>10.28</u> ft	Comments:	
PZ-5D	<u>11.04</u> ft	Comments:	
PW-6	<u>11.40</u> ft	Comments:	
PZ-6A	<u>11.46</u> ft	Comments:	
PZ-6B	<u>11.33</u> ft	Comments:	
PZ-6C	<u>11.58</u> ft	Comments:	
PZ-6D	<u>11.31</u> ft	Comments:	Shown as RW-2 on map
PW-7	<u>-----</u> ft	Comments:	Injection Fluid
MPI-6S	<u>-----</u> ft	Comments:	Injection Fluid
PZ-7B	<u>11.14</u> ft	Comments:	
OW-B	<u>11.06</u> ft	Comments:	
PZ-7D	<u>-----</u> ft	Comments:	Injection Fluid
PW-8	<u>18.50</u> ft	Comments:	
PZ-8A	<u>8.08</u> ft	Comments:	
PZ-8B	<u>8.01</u> ft	Comments:	
PZ-8C	<u>7.62</u> ft	Comments:	
PZ-8D	<u>7.81</u> ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS

RW-1 pump on?	<u> ✓ </u> Yes	<u> </u> No	PW-5 pump on?	<u> </u> Yes	<u> </u> No
PW-2 pump on?	<u> </u> Yes	<u> ✓ </u> No	PW-6 pump on?	<u> </u> Yes	<u> ✓ </u> No
PW-3 pump on?	<u> </u> Yes	<u> ✓ </u> No	PW-7 pump on?	<u> </u> Yes	<u> </u> No
PW-4 pump on?	<u> </u> Yes	<u> ✓ </u> No	PW-8 pump on?	<u> </u> Yes	<u> ✓ </u> No

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 6/2014

DATE	ACTIVITY
3-Jun	OM&M Weekly Inspection. End of month summaries.
4-Jun	UB office work.
5-Jun	Blower #2 - shim motor. Get supplies.
6-Jun	Get supplies. Inspect Blower #2. Clear air from Redux Line.
9-Jun	OM&M Weekly Inspection. Swept Library Parking Lot around groups PW-6 and PW-7. Redug debris trench around Library Parking Lot.
10-Jun	OM&M Sampling. Changed bag filters.
12-Jun	Agway Site - remove hardware / materials. Fill in trench and grade.
13-Jun	Dispose of materials from Agway Site
16-Jun	OM&M Weekly Inspection. Clean Air Stripper through access ports.
17-Jun	Air Stripper - attempt to drain lower tray. Get supplies.
18-Jun	Air Stripper - re hose all trays. Start system.
19-Jun	OM&M Sampling. Library Parking Lot - swept spruce cones and needles after storm.
23-Jun	OM&M Weekly Inspection. UB office work.
26-Jun	UB office work.
27-Jun	Piezometer Readings
30-Jun	OM&M Weekly Inspection. Swept Library Parking Lot after storm. Agway Site - regrade shed site and cover with gravel.

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 6/2014

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Water Supply Line stopped	Water Supply Line stopped working in Treatment Room probably because of the very cold weather which may have frozen a line. Work with building maintenance personnel to restore water.	Jan-14
System Goes Offline	System stops working and several contactors are tripped. Replace fuze in outside electric panel and one contactor in the Air Stripper Control Panel.	Jan-14
PW-4 UE Level	Asphalt around Underground Enclosure has sunk, leaving it vulnerable to damage. Bring parking lot up to level with asphalt patch.	in progress
Rebuild JAC Pump as needed	Jesco America Corp recommends rebuilding the Redux pump when needed. Purchased rebuild kit.	in progress
Brace Effluent Pipe	David Szymanski (NYSDEC) inspected Treatment Room and said that the effluent pipe should be braced in (3) places to the north wall.	in progress
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	in progress
Trim Broken Piezometers	Many of the piezometers are broken. Measuring water levels is not precise when a pipe is broken. Identify and trim all broken piezometers.	in progress
Cool Treatment Room	Temperature in Treatment Room is well above 90 degrees during the summer months. Need to increase outside air inflow to the room.	in progress
Replace Air Stripper Exhaust	Present Air Stripper exhaust is very heavy and leaks moisture. Replace with lighter system.	in progress
Demobilize Agway Shed Hardware	Dismantle electrical installations, system pipes, enclosure panels and regrade area.	Jun-14
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replacer pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels broken/does not seal well. Repair/replace pitless adapter	in progress
Blower #2 makes loud noise	Fan seems to have slipped off of the motor shaft. Disassemble, inspect and repair.	Jun-14
PW-6 pumping into itself	Water enters well when well pump is running. Suspect faulty check valve. Test and repair as needed.	in progress
Dispose Open Top Sludge Drum	Plastic 55 gal drum with open top is almost full of sludge. Dispose of drum to free up space in the cramped Treatment Room.	Mar-14
Dispose used Bag Filters	There are (2) Metal 55 gal drums filled with used bag filters. Dispose of both drums and get new drum to store used bag filters.	Mar-14
Filter Housings are corroded	Flanges that seal filter baskets inside Rosedale Filter Housings are corroded. Sediment flows around filters instead of being trapped. Replace seals in existing housings (short term). Replace housings (long term).	in progress
Replace Air Stripper Latches	Around (6) latches on the Air Stripper trays are loose or broken. Reattach keepers with JB Weld. Replace broken latches and springs with new parts.	in progress
Repair Leaking Ball Valve	Influent ball valve near EQ Tank drips. Inspect/clean and replace if necessary.	in progress
Install Sub Slab Vapor Extraction System	High levels of VOCs were found under floor of Treatment Room. Installed a subslab system to remove and discharge them above the roof. Exhaust end on the roof changed. Drain tube for condensation bypass will be added.	Apr-14
Redux line leaks	Small air leak in line below pump prevents Redux from being pumped into system. Replace necessary hardware.	Feb-14
Air Stripper Supply Pipe Loose	Blower supply pipe slipped off of Air Stripper. Reattach pipe collar and readjust shim blocks. Secure shim blocks together.	Mar-14
Influent Ball Check Valve is damaged	Influent Ball Check Valve has damaged parts which allows influent water to drain back when pumps are not ON. Replace or repair check valve.	Apr-14
Filter Baskets are damaged	(2) Filter Housing Filter Baskets are damage. One has a broden side weld and the other has a broken handle loop. Take baskets to be welded.	Apr-14
PZ-2B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
ESI-3 Repair	MW top cover will not close because piezometer pipe is too high. Piezometer cap is missing. Lower pipe and replace cap. Secure top cover properly.	May-14

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 6/2014

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Need used bag filter drum	Old bag filter drums were disposed of when they were full of used bag filters. Need a new open top 55 gal steel drum for future used bag filters. Replace drum.	May-14

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2014

as of Jun 2014

ID	CLEAN & INSPECT PUMP	REPLACED PUMP	REPAIR PUMP	PITLESS ADAPTER	INNER RING	HORIZONTAL PIPE	CHECK VALVE	CLEAN & INSPECT TRANSDUCER	REPLACE TRANSDUCER	REPAIR TRANSDUCER	PUMP OUT WELL	CLEAN OUT & INSPECT ELECTRICAL BOX	ELECTRICAL BOX REPAIR
RW - 1	Jan 08, May 10, Jan 12	Feb 08, Jan 12	May 10, Nov 08					May 10, Jan 12					
PW - 2	Jun 08, Aug 09, May 10, Apr 13	Jul 08, Apr 13						Nov 11, May 10, Apr 13	Sep 09, Dec 11		Aug-09	Nov-11	Sep-09
PW - 3	Jun 08, Aug 09, May 10	Jul 08, Dec 11		Repair adapter				Aug 09, Nov 11	Dec 11		Aug-09	Nov-11	
PW - 4	Dec 07, May 08, Sep 09, May 10, Jan 12	Dec 07, Jan 12	Sep-13		Aug 13			May 10, Nov 11	Dec 11, Mar 08, Sep 08	Sep-08	Jul 09, Sep 09	Sep 09, Nov 11	Sep-09
PW - 5	Jan 12, May 08	Jul 08, Jan 12						Mar-11	Jan 12, Sep 08	Sep-09		Jan-12	
PW - 6	Jun 08, Jul 09, Jul 12, Nov 12	Jun 08, Jul 09, Aug 12, Nov 12				Jul 12, Nov 12		Aug 09, Jul 12, Dec 12, Apr 13	Sep-09	Jun-08	Aug-09	Aug 09, Sep 09	Jul 09, Sep 09
PW - 7	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12	Nov 07, Jul 09, Oct 10, Nov 12				Jul 12, Nov 12		Oct 10, Aug 11, Mar 12, Jul 12, Dec 12		Jun-08	Aug 09, May 10, Aug 11		
PW - 8	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12	Jul 08, Sep 09, Aug 11, Dec 12				Pipe 8/09, Jul 12		May 10, Aug 11, Jul 12, Dec 12, Apr 13			Aug 09, May 10, Aug 11	Apr-13	Apr-13

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2014

as of Jun 2014

ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS NEW INNER RING	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	PITLESS ADAPTER	NEEDS HORIZONTAL LINE PURGE	NEEDS CHECK VALVE INSPECTION	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANED	NEEDS U.E. REPAIR
RW-1	DONE 1/12	NO	PZ-1B		YES				NO	NO	NO	NO	YES - bolts
PW-2	NO	NO	NO		YES				NO		NO	NO	YES - bolts
PW-3	NO	NO	NO	REPAIRED 8/09	DONE 8/09				NO		NO	NO	NO
PW-4	DONE 9/13	NO	Replaced 8/13		DONE 9/09				NO		NO	NO	YES - Asphalt patch
PW-5	DONE 1/12	NO	NO		YES				NO	DONE 1/12	DONE 1/12	NO	NO
PW-6	YES	YES	NO	Replaced pipe 8/09	DONE 8/09		NO	YES	YES	NO	DONE 9/09	NO	DONE
PW-7	NO	NO	NO	Replaced pipe 8/09	YES	YES	NO		NO	NO	DONE	NO	NO
PW-8	NO	DONE 8/11	NO	Replaced pipe 8/09	NO	YES	YES		NO	NO	YES	NO	NO

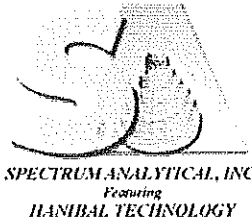
Attachment B
Analytical Report from
Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: N1000

Sampled: June 10, 2014

Received: June 11, 2014

Report Date:
17-Jun-14 13:28



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Ecology and Environment Engineering P.C.
368 Pleasant View Drive
Lancaster, NY 14086

Work Order: N1000
Project : Mr. C's Dry Cleaning
Project #: 4500000623/EN-003229-0001-03TTO

Attn: Michael Steffan

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N1000-01	INFLUENT	Aqueous	10-Jun-14 14:30	11-Jun-14 10:40
N1000-02	EFFLUENT	Aqueous	10-Jun-14 14:30	11-Jun-14 10:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



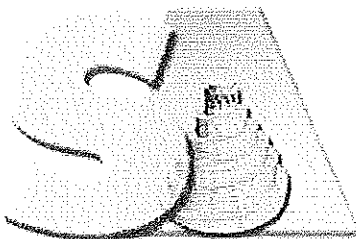
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Sample Transmittal Documentation

Received By: <u>KP</u>		Page 01 of 00	
Reviewed By: <u>JEB</u>		Log-in Date 06/11/2014	
Work Order: N1000	Client Name: Ecology and Environment Engineering P.C.		
Project Name/Event: Mr. C's Dry Cleaning / 4500000623/EN-003229-0001-03TTO			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			
		Preservation (pH)	
Lab Sample ID	HNO3	H2SO4	HCl
	NaOH	H3PO4	VOA Matrix
1. Custody Seal(s)	Present / Absent		Soil HeadSpace or Air Bubble > or equal to 1/4"
	Intact / Broken		
2. Custody Seal Nos.	N/A		
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent		
4. Airbill	AirBill / Sticker		
	Present / Absent		
5. Airbill No.	FedEx 7702 5729 9940		
6. Sample Tags	Present / Absent		
Sample Tag Numbers	Listed /		
	Not Listed on Chain-of-Custody		
7. Sample Condition	Intact / Broken / Leaking		
8. Cooler Temperature Indicator Bottle	Present / Absent		
9. Cooler Temperature	3.4 °C		
10. Does information on TR/COCs and sample tags agree?	Yes / No		
11. Date Received at Laboratory	06/11/2014		
12. Time Received	10:40		
Sample Transfer			
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO		
Area #	Area #		
By	By		
On	On		
IR Temp Gun ID: MT-74	VOA Matrix Key: US = Unpreserved Soil A= Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze		
Coolant Condition: ICE			
Preservative Name/Lot No:	See Sample Condition Notification/Corrective Action Form Yes / No		
	Rad OK Yes / No		



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

** Volatiles **

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1000 Mod. Ref No.: _____ SDG No.: SN1000
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1000-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5310.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/11/2014
 % Moisture: not dec. Date Analyzed: 06/12/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		3.1	J
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		25	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		3.3	J
75-34-3	1,1-Dichloroethane		5.0	U
78-93-3	2-Butanone		25	U
156-59-2	cis-1,2-Dichloroethene		150	
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		13	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		25	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
127-18-4	Tetrachloroethene		220	
591-78-6	2-Hexanone		25	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	Xylene (Total)		5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1000 Mod. Ref No.: _____ SDG No.: SN1000
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1000-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5310.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/11/2014
 % Moisture: not dec. Date Analyzed: 06/12/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1000 Mod. Ref No.: _____ SDG No.: SN1000
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1000-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5309.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/11/2014
 % Moisture: not dec. Date Analyzed: 06/12/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		0.57	J
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone		4.9	J
75-15-0	Carbon disulfide		1.0	U
75-09-2	Methylene chloride		1.0	U
156-60-5	trans-1,2-Dichloroethene		1.0	U
1634-04-4	Methyl tert-butyl ether		2.6	
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		56	
67-66-3	Chloroform		1.0	U
71-55-6	1,1,1-Trichloroethane		1.0	U
56-23-5	Carbon tetrachloride		1.0	U
107-06-2	1,2-Dichloroethane		1.0	U
71-43-2	Benzene		1.0	U
79-01-6	Trichloroethene		3.5	
78-87-5	1,2-Dichloropropane		1.0	U
75-27-4	Bromodichloromethane		1.0	U
10061-01-5	cis-1,3-Dichloropropene		1.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		1.0	U
10061-02-6	trans-1,3-Dichloropropene		1.0	U
79-00-5	1,1,2-Trichloroethane		1.0	U
127-18-4	Tetrachloroethene		53	
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		1.0	U
106-93-4	1,2-Dibromoethane		1.0	U
108-90-7	Chlorobenzene		1.0	U
100-41-4	Ethylbenzene		1.0	U
1330-20-7	Xylene (Total)		1.0	U

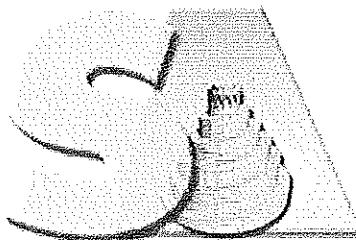
1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1000 Mod. Ref No.: _____ SDG No.: SN1000
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1000-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5309.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/11/2014
 % Moisture: not dec. Date Analyzed: 06/12/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
100-42-5	Styrene		1.0	U
75-25-2	Bromoform		1.0	U
98-82-8	Isopropylbenzene		1.0	U
79-34-5	1,1,2,2-Tetrachloroethane		1.0	U
541-73-1	1,3-Dichlorobenzene		1.0	U
106-46-7	1,4-Dichlorobenzene		1.0	U
95-50-1	1,2-Dichlorobenzene		1.0	U
96-12-8	1,2-Dibromo-3-chloropropane		1.0	U
120-82-1	1,2,4-Trichlorobenzene		1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		1.0	U
110-82-7	Cyclohexane		1.0	U
79-20-9	Methyl acetate		1.0	U
108-87-2	Methylcyclohexane		1.0	U



SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

** Wet Chemistry **

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: N1000-01

Project: Mr. C's Dry Cleaning

Collection Date: 06/10/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	500		4.0	mg/L CaCO3	1	06/13/2014 10:09	77539
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.2		1.0	S.U.	1	06/11/2014 9:15	R82127

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: N1000-02

Project: Mr. C's Dry Cleaning

Collection Date: 06/10/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	500		4.0	mg/L CaCO3		1 06/13/2014 10:13	77539
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.9		1.0	S.U.		1 06/11/2014 9:15	R82127

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Attachment C
Analytical Report from
Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: N1074

Sampled: June 19, 2014

Received: June 20, 2014

Report Date:
26-Jun-14 14:21



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Ecology and Environment Engineering P.C.
368 Pleasant View Drive
Lancaster, NY 14086

Work Order: N1074
Project: Mr. C's Dry Cleaning
Project #: 450000623/EN-003229-0001-03TTO

Attn: Michael Steffan

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N1074-01	INFLUENT	Aqueous	19-Jun-14 15:00	20-Jun-14 08:55
N1074-02	EFFLUENT	Aqueous	19-Jun-14 15:00	20-Jun-14 08:55

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

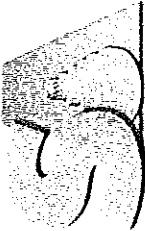


Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Sample Transmittal Documentation



SPECTRUM ANALYTICAL, INC.
Featuring
HANBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

646 Camp Avenue
N Kingstown, RI 02852
(401) 732-3400

Special Handling:

TAT- Ind icate Date Needed: Std
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: E E L Inc
368 Pleasantview Dr
Lancaster, NY 14086

Telephone #: (716) 684-8060
Project Mgr. Mike Steffan

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8= NaHSO₄ 9= Deionized Water 10=H₃PO₄ 11=
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

Invoice To: E E L Inc

P.O. No.: _____ RQN: _____

Project No.: _____

Site Name: MF Cs O M & M

Location: East Aurora State: NY

Sampler(s): R. Allen

List preservative code below:

1-42

QA/QC Reporting Notes:

QA/QC Reporting Level

- Level I Level II
 Level III Level IV
 Other CAT A

State-specific reporting standards:

Containers:

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Matrix

Type

Time:

Date:

Sample Id:

11074

01

INFLUENT

3:00 P

GW

1

1

✓

PH

VOCs

Hardness

please send another sample kit

01

INFLUENT

↓

GW

1

1

✓

VOCs

Hardness

please send another sample kit

01

INFLUENT

↓

GW

3

1

✓

VOCs

Hardness

please send another sample kit

02

EFFLUENT

↓

GW

1

1

✓

VOCs

Hardness

please send another sample kit

02

EFFLUENT

↓

GW

3

1

✓

VOCs

Hardness

please send another sample kit

Relinquished by:

Richard C. Allen Jr

Received by:

[Signature]

Date:

06/20/14

Time:

08:55

Temp °C

3.8°

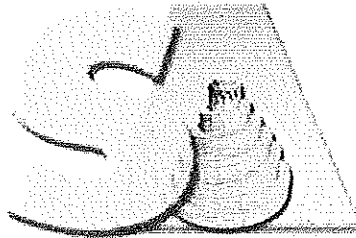
EDD Format

PDF

E-mail to msteffan@ene.com

Condition upon receipt: Intact Broken
 Ambient Iced Refrigerated D/VOA Frozen Soil Jar Frozen

Received By: <u>KP</u>		Page 01 of 00	
Reviewed By: <u>WSL</u>		Log-in Date 06/20/2014	
Work Order: N1074	Client Name: Ecology and Environment Engineering P.C.		
Project Name/Event: Mr. C's Dry Cleaning / 4500000623/EN-003229-0001-03TTO			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.		Soil HeadSpace or Air Bubble > or equal to 1/4"	
		Preservation (pH)	
	Lab Sample ID	HNO3	H2SO4
		HCl	NaOH
		H3PO4	VOA Matrix
1. Custody Seal(s)	<u>Present / Absent</u>		
	<u>Intact / Broken</u>		
2. Custody Seal Nos.	N/A		
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	<u>Present / Absent</u>		
4. Airbill	<u>AirBill / Sticker</u>		
	<u>Present / Absent</u>		
5. Airbill No.	FedEx 7703 5230 7460		
6. Sample Tags	<u>Present / Absent</u>		
Sample Tag Numbers	Listed /		
	<u>Not Listed on Chain-of-Custody</u>		
7. Sample Condition	<u>Intact / Broken / Leaking</u>		
8. Cooler Temperature Indicator Bottle	<u>Present / Absent</u>		
9. Cooler Temperature	3.8 °C		
10. Does information on TR/COCs and sample tags agree?	<u>Yes / No</u>		
11. Date Received at Laboratory	06/20/2014		
12. Time Received	08:55		
Sample Transfer			
Fraction (1) TVOA/VOA	Fraction (2) SVQA/PEST/ARO		
Area #	Area #		
By	By		
On	On		
IR Temp Gun ID: MT-74		VOA Matrix Key:	
Coolant Condition: ICE		US = Unpreserved Soil	A = Air
Preservative Name/Lot No:		UA = Unpreserved Aqueous	H = HCl
		M = MeOH	E = Encore
		N = NaHSO4	F = Freeze
		See Sample Condition Notification/Corrective Action Form Yes / <u>No</u>	
		Rad OK <u>Yes</u> / No	



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

** Volatiles **

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1074 Mod. Ref No.: _____ SDG No.: SN1074
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1074-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5706.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/20/2014
 % Moisture: not dec. Date Analyzed: 06/24/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		25	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		3.6	J
75-34-3	1,1-Dichloroethane		5.0	U
78-93-3	2-Butanone		25	U
156-59-2	cis-1,2-Dichloroethene		160	
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		17	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		25	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
127-18-4	Tetrachloroethene		260	
591-78-6	2-Hexanone		25	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	Xylene (Total)		5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1074 Mod. Ref No.: _____ SDG No.: SN1074

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1074-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5706.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/20/2014

% Moisture: not dec. Date Analyzed: 06/24/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
100-42-5	Styrene		5.0
75-25-2	Bromoform		5.0
98-82-8	Isopropylbenzene		5.0
79-34-5	1,1,2,2-Tetrachloroethane		5.0
541-73-1	1,3-Dichlorobenzene		5.0
106-46-7	1,4-Dichlorobenzene		5.0
95-50-1	1,2-Dichlorobenzene		5.0
96-12-8	1,2-Dibromo-3-chloropropane		5.0
120-82-1	1,2,4-Trichlorobenzene		5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0
110-82-7	Cyclohexane		5.0
79-20-9	Methyl acetate		5.0
108-87-2	Methylcyclohexane		5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1074 Mod. Ref No.: _____ SDG No.: SN1074
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1074-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5705.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/20/2014
 % Moisture: not dec. Date Analyzed: 06/24/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		1.0	U
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone		8.3	
75-15-0	Carbon disulfide		1.0	U
75-09-2	Methylene chloride		1.0	U
156-60-5	trans-1,2-Dichloroethene		1.0	U
1634-04-4	Methyl tert-butyl ether		1.3	
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		3.8	
67-66-3	Chloroform		1.0	U
71-55-6	1,1,1-Trichloroethane		1.0	U
56-23-5	Carbon tetrachloride		1.0	U
107-06-2	1,2-Dichloroethane		1.0	U
71-43-2	Benzene		1.0	U
79-01-6	Trichloroethene		1.0	U
78-87-5	1,2-Dichloropropane		1.0	U
75-27-4	Bromodichloromethane		1.0	U
10061-01-5	cis-1,3-Dichloropropene		1.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		1.0	U
10061-02-6	trans-1,3-Dichloropropene		1.0	U
79-00-5	1,1,2-Trichloroethane		1.0	U
127-18-4	Tetrachloroethene		1.8	
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		1.0	U
106-93-4	1,2-Dibromoethane		1.0	U
108-90-7	Chlorobenzene		1.0	U
100-41-4	Ethylbenzene		1.0	U
1330-20-7	Xylene (Total)		1.0	U

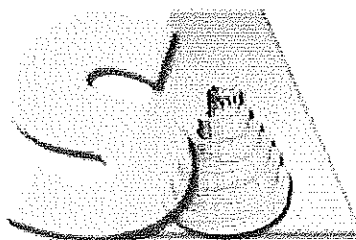
1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1074 Mod. Ref No.: _____ SDG No.: SN1074
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1074-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D5705.D
 Level: (TRACE/LOW/MED) LOW Date Received: 06/20/2014
 % Moisture: not dec. Date Analyzed: 06/24/2014
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
100-42-5	Styrene		1.0
75-25-2	Bromoform		1.0
98-82-8	Isopropylbenzene		1.0
79-34-5	1,1,2,2-Tetrachloroethane		1.0
541-73-1	1,3-Dichlorobenzene		1.0
106-46-7	1,4-Dichlorobenzene		1.0
95-50-1	1,2-Dichlorobenzene		1.0
96-12-8	1,2-Dibromo-3-chloropropane		1.0
120-82-1	1,2,4-Trichlorobenzene		1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		1.0
110-82-7	Cyclohexane		1.0
79-20-9	Methyl acetate		1.0
108-87-2	Methylcyclohexane		1.0



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

** Wet Chemistry **

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: N1074-01

Collection Date: 06/19/14 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	460		4.0	mg/L CaCO3		106/24/2014 9:01	77708
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.1		1.0	S.U.		106/20/2014 12:00	R82316

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: N1074-02

Collection Date: 06/19/14 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	470		4.0	mg/L CaCO3		106/24/2014 9:05	77708
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.3		1.0	S.U.		106/20/2014 12:06	R82316

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Attachment D
Summary of Site Utility Costs and Projections
January to December 2014

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

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

June 2014 Report

	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:	Budget Remaining:	Electric:	Telephone:	Gas	Total:
January-13	624	616	98.72%	8.8%	Snow and sub-freezing January	\$5,844.33				
February-13	648	648	100.00%	8.6%	Very cold and snowy February	\$463.13				
March-13	604	604	100.00%	8.7%	Still very cold with below normal temperatures and snow					
April-13	708	784	110.73%	8.9%	Little snow & rainy					
May-13	696	696	100.00%	8.4%	Generally clear					
June-13	648	648	100.00%	7.3%	Generally clear					
July-13			#DIV/0!							
August-13			#DIV/0!							
September-13			#DIV/0!							
October-13			#DIV/0!							
November-13			#DIV/0!							
December-13			#DIV/0!							
Totals to Date	4128	3876	93.90%							\$6,792.89

* 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%. With the exception of groundwater pump RW-1, all others run on a batch basis.

Monthly Average Costs

Mr. C's Electric	\$	1,159.28
Agway Electric	\$	-
Mr. C's Gas	\$	211.52
Mr. C's Telephone	\$	38.44
Avg. Utility Cost Total	\$	1,409.24
		times
		12 Month Estimate
		\$18,320.08

ATTACHMENT D