



ecology and environment engineering, p.c.

International Specialists in the Environment

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April 10, 2012

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 # D004442.DC13, Site # 9-15-157
March 2012 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the March 2012 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 9-15-157, located in East Aurora, New York. Copies of weekly inspection reports prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG) are provided in Attachment A. Selected pages from the individual analytical data package prepared by Mitkem Laboratories, Inc. (MLI) are provided as Attachments B. The full analytical reports along with QA/QC information will be retained by EEEPC. Remedial treatment system utility costs for the Mr. C's and Agway sites are provided as Attachment C.

In review of the on-site treatment system operations, monitoring and maintenance for March 2012, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations Information

- Checklists for weekly system inspections from IEG are provided as Attachment A for 3/5, 3/12, 3/19, 3/26, and 4/4/12.
- Based on the weekly inspection results performed by IEG, the remedial treatment system had a 100.00% operational up-time (Table 1) and the treatment of contaminated groundwater totaling of 357,397 gallons (Table 2) for March 2012.
- Initial sampling occurred on March 8, 2012 with the analytical results received on March 27, 2012. The results of the sampling indicated non-compliance issues with the effluent discharge requirements for Tetrachloroethene (PCE) at 3.3 ug/L.

- The analytical results revealed the influent concentration to be 653 µg/L or 653 ppb, and 3.3 µg/L or 3.3 ppb of treated effluent. PCE concentrations were 3.3 µg/L or 3.3 ppb which is under the 10 µg/L or 10 ppb limit. The summary of influent and effluent contaminant concentrations for the March 8, 2012 sampling events is presented in Table 4.
- The cleanup efficiency for the contaminants of concern at the site during the reporting / operating period 3/5/12 to 4/4/12 was 99.49%. The air stripper unit on the Mr. C's property is currently in compliance and MLI continues to provide analytical data to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. The summary of Effluent Discharge Criteria & Analytical Compliance Results for March 2012 is presented in Table 3.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 1.94 lbs. of targeted contaminants from the groundwater below the site in the month of March 2012. The calculations and data for the month are presented in Table 5.

Agway Site Remedial Information

- The Agway facility treatment unit was turned off in December 2011.
- The facility was turned off as a results of future bioaugmentation work in that area and as directed by the NYSDEC Project manager.

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

- No current operational issues.
- Sampling and system(s) inspection at the 1st Presbyterian Church was performed on December 11, 2011.
- Fan bearing noisy on the SSDS fan on the west-side of the classroom building. SSDS fan was replaced on February 2, 2012.

Mr. C's and Agway Energy Usage Information

- A copy of the site utility costs from the Mr. C's and Agway remedial operations for January through March 2012 are provided as Attachment C.
- The Agway system power was turned off in December 2011.

Mr. William Welling, Project Manager

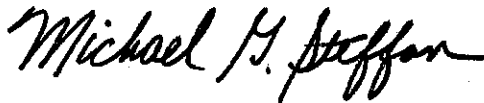
April 10, 2012

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If you have questions regarding the March 2012 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,

Ecology and Environment Engineering, P. C.

A handwritten signature in black ink that reads "Michael G. Steffan". The signature is written in a cursive style with a prominent initial "M".

Michael G. Steffan

Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments

D. Iyer, IEG - w/attachments

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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 1/4/12)	79,183.50	96.27%
January 4, 2012 - February 2, 2012	696	100.00%
February 2, 2012 - March 5, 2012	768	100.00%
March 5, 2012 - April 4, 2012	720	100.00%
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Total Hours from System Startup '2/02'	81,367.50	
Average Operational Up-time from startup =		96.37%
Average Operational Up-time for 2012 =		100.00%

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 3
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157

Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	March 8, 2012 Effluent Analytical Values Compliance
Flow	N/A	gpd	11,913
pH	6.0 - 9.0	standard units	8.1
1,1-Dichloroethene	10	µg/L	1.0 U
1,1-Dichloroethane	10	µg/L	1.0 U
cis-1,2-dichloroethene	10	µg/L	1.0 U
Trichloroethene	10	µg/L	1.0 U
Tetrachloroethene	10	µg/L	3.3
Vinyl Chloride	10	µg/L	1.0 U
Benzene	5	µg/L	1.0 U
Ethylbenzene	5	µg/L	1.0 U
Methylene Chloride	10	µg/L	1.0 U
1,1,1-Trichloroethane	10	µg/L	1.0 U
Toluene	5	µg/L	1.0 U
Methyl-t-Butyl Ether (MTBE)	NA	µg/L	1.0 U
o-Xylene ²	5	µg/L	NA
m, p-Xylene ²	10	µg/L	NA
Total Xylenes	NA	µg/L	1.0 U
Iron, total	600	µg/L	NA ³
Aluminum	4,000	µg/L	NA ³
Copper	48	µg/L	NA ³
Lead	11	µg/L	NA ³
Manganese	2,000	µg/L	NA ³
Silver	100	µg/L	NA ³
Vanadium	28	µg/L	NA ³
Zinc	250	µg/L	NA ³
Total Dissolved Solids	850	mg/L	NA ³
Total Suspended Solids	20	mg/L	NA ³
Hardness	N/A	mg/L	580
Cyanide, Free	10	µg/L	NA ³

NOTES:

- "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
- Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
- Standard cells indicate that analytical value exceeds the "Daily Maximum."
- "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
- "NA" indicates that analyses were not performed and data is unavailable.
- Average flows based on effluent readings taken March 5, 2012 through April 4, 2012. Total gallons: 357,397 divided by 30 operating days.
- "J" indicates an estimated value below the detection limit.
- "B" indicates analyte found in the associated blank.
- 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 4
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
March 2012 VOC Analytical Summary

Compound	Based on the 3/8/12 Effluent Sampling Results		
	Influent Concentration* (ug/L)	Effluent Concentration* (ug/L)	Cleanup Efficiency** (%)
Acetone	ND (<5.0)	ND (<5.0)	NA
Benzene	ND (<1.0)	ND (<1.0)	NA
2-Butanone	ND (<5.0)	ND (<5.0)	NA
cis-1, 2-Dichloroethene	20.0	ND (<1.0)	100.00%
Chloroform	ND (<1.0)	ND (<1.0)	NA
Methylene chloride	ND (<1.0)	ND (<1.0)	NA
Methyl tert-butyl ether (MTBE)	ND (<1.0)	ND (<1.0)	NA
Tetrachloroethene	600.0	3.3	99.45%
Toluene	ND (<1.0)	ND (<1.0)	NA
Trichloroethene	33.0	ND (<1.0)	100.00%
Carbon Disulfide	ND (<1.0)	ND (<1.0)	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<1.0)	ND (<1.0)	NA
Cyclohexane	ND (<1.0)	ND (<1.0)	NA
trans-1,2-dichloroethene	ND (<1.0)	ND (<1.0)	NA
Chlorobenzene	ND (<1.0)	ND (<1.0)	NA
Methylcyclohexane	ND (<1.0)	ND (<1.0)	NA
Methyl acetate	ND (<1.0)	ND (<1.0)	NA
Total Xylenes	ND (<1.0)	ND (<1.0)	NA
March 2012 TOTALS (in ug/L) =	653.0	3.30	99.49%

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.

* (<50) - Detection Limit

** 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 2011 =				1,525.66
January 2012	1/4/12 - 2/2/12	2829.0	2.90	10.77
February 2012	2/2/12 - 3/5/12	809.7	3.77	3.03
March 2012	3/5/12 - 4/4/12	653.0	3.30	1.94
April 2012				
May 2012				
June 2012				
July 2012				
August 2012				
September 2012				
October 2012				
November 2012				
December 2012				
Total pounds of VOCs removed from inception =				1,541.40
Total pounds of VOCs removed in 2012 =				15.74

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. No samples were collected in September 2003. August 2003 values are used.
7. Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
8. Treatment system operated by O&M Enterprises from 10/03 to 7/07.
9. 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
March 2012

Including:

3/5/12

3/12/12

3/19/12

3/26/12

4/4/12

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

DATE: 5-Mar-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Sunny, cold OUTSIDE TEMPERATURE (°F): 30

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-7 is OFF due to maintenance problem.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>5</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>3</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>16</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 2/17/12 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 8 gpm INFLUENT TOTALIZER READING: 1,312,181.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 27 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 46 gallons

SEQUESTERING AGENT FEED RATE: 6.0 ml/min METERING PUMP PRESSURE: 4.0 psi

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

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 11.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.013 in. H₂O DISCHARGE PRESSURE: 4.7 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 _____ EFFLUENT FEED PUMP PRESSURE: 4.0 psi

EFFLUENT FLOW RATE: 94 gpm EFFLUENT TOTALIZER READING: 67,078,416 503360 gallons

ARE BUILDING HEATERS IN USE? YES: NO: _____ INSIDE TEMPERATURE (°F): 55

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

5-Mar-12

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:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

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

Remarks:

Other Actions:

AGWAY

SYSTEM VACUUM: _____ in. H₂O

AIR PRESSURE: _____ psi

SP-1: _____ scfm _____ psi

SP-5: _____ scfm _____ psi

SP-2: _____ scfm _____ psi

SP-6: _____ scfm _____ psi

SP-3: _____ scfm _____ psi

SP-7: _____ scfm _____ psi

SP-4: _____ scfm _____ psi

SP-8: _____ scfm _____ psi

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: System is OFF until further instructions.

Other Actions:

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

DATE: 12-Mar-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Cloudy, cool, rain OUTSIDE TEMPERATURE (°F): 55

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-7 is OFF due to maintenance problem.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

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

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 2/17/12 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 12 gpm INFLUENT TOTALIZER READING: 1,457,333.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 19 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 32 gallons

SEQUESTERING AGENT FEED RATE: 3.0 ml/min METERING PUMP PRESSURE: 3.0 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: 15 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 11.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.012 in. H₂O DISCHARGE PRESSURE: 4.7 in. H₂O

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

EFFLUENT FLOW RATE: 92 gpm EFFLUENT TOTALIZER READING: 67,166,220 592980 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (°F): 65

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

WATER LEVEL IN SUMP: 7.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

MR. C's DRY CLEANERS SITE

NYSDEC Site #90150157

SITE INSPECTION FORM

12-Mar-12

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:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

Some MWs and UEs are covered with puddles because of ongoing rain.

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

Remarks:

Other Actions:

AGWAY

SYSTEM VACUUM: _____ in. H ₂ O			AIR PRESSURE: _____ psi		
SP-1: _____	scfm _____	psi _____	SP-5 _____	scfm _____	psi _____
SP-2: _____	scfm _____	psi _____	SP-6 _____	scfm _____	psi _____
SP-3: _____	scfm _____	psi _____	SP-7 _____	scfm _____	psi _____
SP-4: _____	scfm _____	psi _____	SP-8 _____	scfm _____	psi _____

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: System is OFF until further instructions.

Other Actions:

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

DATE: 19-Mar-12 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-7 is OFF due to maintenance problem.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

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

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 3/18/12 Air Stripper High Level

NOTES: _____

INFLUENT FLOW RATE: 1 gpm INFLUENT TOTALIZER READING: 1,584,674.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 0.5 inches (x 1.7=) AMOUNT OF AGENT REMAINING: <1 gallons

SEQUESTERING AGENT FEED RATE: 4.0 ml/min METERING PUMP PRESSURE: 3.0 psi

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

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 10.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.013 in. H₂O DISCHARGE PRESSURE: 4.9 in. H₂O

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

EFFLUENT FLOW RATE: 96 gpm EFFLUENT TOTALIZER READING: 67,245,226 673770 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (°F): 72

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

WATER LEVEL IN SUMP: 6.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

MR. C's DRY CLEANERS SITE

NYSDEC Site #90150157

SITE INSPECTION FORM

19-Mar-12

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:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

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

Remarks: Respond to Auto Alarm - Air Stripper Low Air Pressure and Air Stripper High Level. Reset Auto Alarm - OK.

Other Actions: Switched Redux pickup to new drum.

Effluent Meter - disassemble and clean

Blower Motor #1 - lube

Dig debris containment trench around Library parking lot. Swept parking lot.

AGWAY

SYSTEM VACUUM: _____ in. H₂O

AIR PRESSURE: _____ psi

SP-1: _____ scfm _____ psi

SP-5 _____ scfm _____ psi

SP-2: _____ scfm _____ psi

SP-6 _____ scfm _____ psi

SP-3: _____ scfm _____ psi

SP-7 _____ scfm _____ psi

SP-4: _____ scfm _____ psi

SP-8 _____ scfm _____ psi

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: System is OFF until further instructions.

Other Actions:

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

DATE: 26-Mar-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Sunny, cool OUTSIDE TEMPERATURE (° F): 40

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-7 is OFF due to maintenance problem.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>8</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-6	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>6</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: _____	OFF: <input checked="" type="checkbox"/> <u>8</u> ft	PW-8	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>6</u> ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 3/20/12 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 24 gpm INFLUENT TOTALIZER READING: 1,731,831.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 27 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 46 gallons

SEQUESTERING AGENT FEED RATE: 6.0 ml/min METERING PUMP PRESSURE: 3.0 psi

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

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 11.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.017 in. H₂O DISCHARGE PRESSURE: 4.6 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 _____ EFFLUENT FEED PUMP PRESSURE: 11.0 psi

EFFLUENT FLOW RATE: 0.017 gpm EFFLUENT TOTALIZER READING: 67,333,002 763320 gallons

ARE BUILDING HEATERS IN USE? YES: NO: _____ INSIDE TEMPERATURE (° F): 57

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

26-Mar-12

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:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

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

Remarks: _____

Other Actions: PW-7 - power wash transducer, vertical pipe and well pump. Test - OK.

AGWAY

SYSTEM VACUUM: _____ in. H ₂ O			AIR PRESSURE: _____ psi		
SP-1: _____	scfm _____	psi _____	SP-5 _____	scfm _____	psi _____
SP-2: _____	scfm _____	psi _____	SP-6 _____	scfm _____	psi _____
SP-3: _____	scfm _____	psi _____	SP-7 _____	scfm _____	psi _____
SP-4: _____	scfm _____	psi _____	SP-8 _____	scfm _____	psi _____

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: System is OFF until further instructions.

Other Actions: _____

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

DATE: 4-Apr-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen, D. Iyer OTHER PERSONNEL: _____

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (°F): 49

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-7 and PW-8 are OFF due to maintenance problems. PW-7 and PW-8 do not cycle down.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>8</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>8</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>16</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>8</u> ft	PW-8	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>11</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 3/20/12 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 7 gpm INFLUENT TOTALIZER READING: 1,901,026.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 16 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 27 gallons

SEQUESTERING AGENT FEED RATE: 6.0 ml/min METERING PUMP PRESSURE: 3.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>20</u>	<u>0</u> psi	RIGHT:	<u>40 - 8</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 12.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.015 in. H₂O DISCHARGE PRESSURE: 4.5 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 _____ EFFLUENT FEED PUMP PRESSURE: 3.0 psi

EFFLUENT FLOW RATE: 90 gpm EFFLUENT TOTALIZER READING: 67,435,813 867860 gallons

ARE BUILDING HEATERS IN USE? YES: NO: _____ INSIDE TEMPERATURE (°F): 60

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

4-Apr-12

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	1:00 PM	7.44	7.10	13.4	3023
AIR STRIPPER EFFLUENT:	EFF	1:00 PM	8.54	6.40	12.9	3014

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/electrhc box ID and description of any corrective measures below:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

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

Remarks: _____

Other Actions: Changed bag filters.

Lubricated Effluent Pump #1 and Influent Pump #1.

Inspected effluent pipe and cleaned ball valve #1.

AGWAY

SYSTEM VACUUM: _____ in. H₂O AIR PRESSURE: _____ psi

SP-1: _____ scfm _____ psi SP-5 _____ scfm _____ psi

SP-2: _____ scfm _____ psi SP-6 _____ scfm _____ psi

SP-3: _____ scfm _____ psi SP-7 _____ scfm _____ psi

SP-4: _____ scfm _____ psi SP-8 _____ scfm _____ psi

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: System is OFF until further instructions.

Other Actions: _____

MR. C's DRY CLEANERS SITE

NYSDEC Site #9-15-157

OM&M: PIEZOMETER WATER LEVEL LOG

Date: 6-Mar-12

Measurements taken by:

R. Allen

RW-1	14.70 ft	Comments:
PZ-1A	11.08 ft	Comments:
PZ-1B	----- ft	Comments: <u>damaged</u>
PZ-1C	12.02 ft	Comments:
PZ-1D	12.09 ft	Comments:
PW-2	16.00 ft	Comments:
PZ-2A	10.66 ft	Comments:
PZ-2B	10.99 ft	Comments:
PZ-2C	10.52 ft	Comments:
MW-7	11.00 ft	Comments: <u>Substitute for 2D</u>
PW-3	20.30 ft	Comments:
PZ-3A	11.15 ft	Comments:
PZ-3B	11.21 ft	Comments:
PZ-3C	11.70 ft	Comments:
PZ-3D	11.20 ft	Comments:
PW-4	17.10 ft	Comments:
PZ-4A	11.35 ft	Comments:
PZ-4B	10.55 ft	Comments:
PZ-4C	----- ft	Comments: <u>sealed over</u>
PZ-4D	10.16 ft	Comments:

PW-5	14.90 ft	Comments:
PZ-5A	10.41 ft	Comments:
PZ-5B	10.52 ft	Comments:
PZ-5C	10.07 ft	Comments:
PZ-5D	10.83 ft	Comments:
PW-6	21.70 ft	Comments:
PZ-6A	11.38 ft	Comments:
PZ-6B	11.20 ft	Comments:
PZ-6C	11.42 ft	Comments:
PZ-6D	11.08 ft	Comments: <u>Shown as RW-2 on map</u>
PW-7	17.80 ft	Comments:
MPI-6S	11.02 ft	Comments:
PZ-7B	10.96 ft	Comments:
OW-B	10.91 ft	Comments:
PZ-7D	10.58 ft	Comments:
PW-8	22.00 ft	Comments:
PZ-8A	7.93 ft	Comments:
PZ-8B	7.85 ft	Comments:
PZ-8C	7.26 ft	Comments:
PZ-8D	7.65 ft	Comments:

PUMPS IN OPERATION DURING MEASUREMENTS

RW-1 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-2 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-3 pump on?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/>	No
PW-4 pump on?	Yes	<input checked="" type="checkbox"/>	No

PW-5 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-6 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-7 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-8 pump on?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/>	No

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 3/2012

DATE	ACTIVITY
1-Mar	OM&M and UM end of month office work.
2-Mar	Switch Redux pickup to new drum. Organize Treatment Room for delivery of new Redux drums. Search melting snow piles for missing top covers. Take delivery of (3) Redux drums. PW-6 - switch new top cover to old cover.
5-Mar	OM&M Weekly Inspection and sampling. UM office work.
6-Mar	Piezometer Readings and office work.
8-Mar	Changed bag filters
12-Mar	OM&M Weekly Inspection
19-Mar	OM&M Weekly Inspection. Switch Redux pickup to new drum.
20-Mar	Move equipment and sweep floor of Treatment Room. Blower Motor #1 - Lube. Disassemble and clean Effluent Meter. Pick up trash around well groups PW-4, PW-6 and PW-7. Re-dig debris containment trench around Library parking lot. Respond to Auto Alarm.
21-Mar	OM&M office work.
26-Mar	OM&M Weekly Inspection.
27-Mar	Pickup repaired filter baskets at Buffalo Well Products. Deliver baskets to Treatment Room.
29-Mar	PW-7 - inspect and power wash transducer, vertical pipe and well pump.
30-Mar	UM office work

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 3/2012

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Replace SVE Vacuum Drum	Present Vacuum Drum inside Agway Shed is corroded. Replace drum.	on hold
AS / SVE System Evaluation	Agway Shed - test & evaluate air sparge system and Soil Vapor Extraction system. Installed fittings to measure pressure and flow. Tested air sparging and SVE lines.	on hold
PW-4 Well Repair and Level	Asphalt around PW-4 well has sunk, due to collapse of corroded inner ring. Replace inner ring and bring parking lot up to level with asphalt patch.	in progress
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
Install MW Ring	Piezimeter in Agway Site parking lot was damaged by the road repair crew. To instal new Monitoring Well Ring around damaged Piezometer for protection.	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
Agway Shed Concrete Dump	Approximately 1/4 yard of concrete was washed out on the north side of the Agway Shed. Concrete should be removed.	on hold
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
Add Inline filter to Compressor	The Condensate Removal Valve (CRV) on the Air Compressor gets stuck open by occasional pieces of debris from the air tank. Put filter on hose before the CRV.	on hold
PW-5 Pump not cycling	Well pump stays on after water level drops - may be bad transducer. Inspect and clean well pump/transducer. Replaced well pump and transducer.	Jan-12
Repair Blower #2	Determined that bearing is failing in Air Stripper Blower Motor. Replace motor.	in progress
Bank 2 Timer is defective	The Bank 2 Timer inside the Agway Shed stopped working. Dismantle Timer and take for repair or replace defective parts.	on hold
PW-2 level	Water level reading is high. Inspect transducer and make necessary repairs	Nov-12
PW-3 level	Water level reading is high. Inspect transducer and make necessary repairs	Dec-12
PW-4 not pumping	Inspect well pump and make necessary repairs.	Jan-12
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replacer pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels brokent/does not seal well. Repair/replace pitless adapter	in progress
Clean Effluent Pumps/Meter	Effluent Meter is running slowly. Disassemble and clean pumps and meter.	in progress
RW-1 Repair	Replace non working well pump	Jan-12
Church Fan Complaint	Church complained that west fan was noisy. Fan was slightly louder than the south fan - was replaced on 2/8/12	Feb-12
PZ-1B Repair	Top cover was knocked off and lost by snowplow. Replace inner ring and lower height so MW will not be as susceptible to snowplow damage.	in progress
PW-6 Repair	Top cover is missing. The snowplow is a possible cause but this MW is not elevated above the surrounding asphalt parking lot. Replace top cover.	Feb-12
Adjust Air Stripper	Effluent lab results were below standard. Troubleshoot and adjust Air Stripper to achieve better results.	in progress
Repair (2) Filter Baskets	(1) Filter Basket is splitting open along its seam. (1) Filter Basket has a broken handle. Take both baskets to Buffalo Well Products for repair.	Mar-12
PW-7 is not pumping down	Inspect and clean pump and transducer. Inspect pitless adapter to gauge condition of horizontal lines.	in progress
Library Parking Lot	Spruce needles wash onto Library Parking Lot around PW-6 and PW-7 during rain storms, then into pumping wells and underground enclosures where they obstruct the pipes. Re-dig small trench around the entire back parking lot.	Mar-12

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2012

as of Mar 12

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

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2012

as of Mar 12

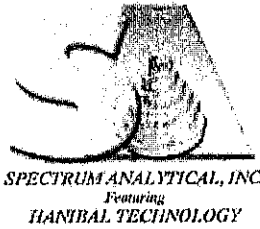
ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	PITLESS ADAPTER	NEEDS HORIZONTAL LINE PURGE	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANED	NEEDS U.E. REPAIR
RW-1	DONE 1/12	NO		YES			NO	NO	NO	NO	YES - bolts
PW-2	NO	NO		YES			NO		NO	NO	YES - bolts
PW-3	NO	NO	REPAIRED 8/09	DONE 8/09			NO		NO	NO	NO
PW-4	DONE 1/12	NO		DONE 9/09			NO		NO	NO	YES - Asphalt patch
PW-5	DONE 1/12	NO		YES			NO	DONE 1/12	DONE 1/12	NO	NO
PW-6	NO	DONE 8/09	Replaced pipe 8/09	DONE 8/09			YES 7/09	NO	DONE 9/09	NO	DONE
PW-7	NO	DONE 10/10	Replaced pipe 8/09	YES	YES	YES	NO	NO	DONE	NO	NO
PW-8	NO	DONE 8/11	Replaced pipe 8/09	NO	YES	DONE 8/11	NO	NO	YES	NO	NO

Attachment B
Analytical Report from
Mitkem Laboratories

Analytical Data Package Work Order ID: L0464
Sampled: March 8, 2012
Received: March 27, 2012

Report Date:
27-Mar-12 10:51

- Final Report
- Re-Issued Report
- Revised Report



Laboratory Report

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

Work Order: L0464
Project : Mr. C's Dry Cleaning
Project #: 002700.DC13.02.01.01

Attn: Michael Steffan

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L0464-01	INFLUENT	Aqueous	08-Mar-12 14:30	09-Mar-12 09:05
L0464-02	EFFLUENT	Aqueous	08-Mar-12 14:30	09-Mar-12 09:05

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 Mitkem Laboratories.

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 is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.mitkem.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
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

Sample Transmittal Documentation



SPECTRUM ANALYTICAL, INC.
Featuring
HAMBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling: std
TAT- Indicate Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 30 days unless otherwise instructed.

Page 1 of 1

Report To: E & E, Inc
368 Pleasantview Dr
Lancaster, NY 14086
Telephone #: (716) 684-8060
Project Mgr.: Mike Sireffo

Invoice To: E & E, Inc
P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: MFCs OM & M
Location: East Aurora State: NY
Sampler(s): B. Allen

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9= _____ 10= _____ 11= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

List preservative code below:

1 4 2

Containers: # of VOA Vials # of Amber Glass # of Clear Glass # of Plastic

Analyses:

QA/QC Reporting Level
 Level I Level II
 Level III Level IV
 Other CAT A
State specific reporting standards: _____

Notes:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix
	INFLEWENT	3/8/12	2:30 P	G	GW
	INFLEWENT	}	2:30 P	G	GW
	INFLEWENT		2:30 P	G	GW 2
	EFFLEWENT	}	2:30 P	G	GW
	EFFLEWENT		2:30 P	G	GW
	EFFLEWENT	}	2:30 P	G	GW 2
	EFFLEWENT		2:30 P	G	GW 2

Notes: PT Hardness LOC

E-mail to wstefan@eme.com
E-mail to PDF
Condition upon receipt: Iced Ambient 15°C

Relinquished by: Richard C Allen Jr
Received by: [Signature]
Date: 3 APR 9:05

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By: <i>[Signature]</i>	Page 01 of 01
Reviewed By: <i>[Signature]</i>	Log-in Date 03/09/2012
Work Order: L0464	Client Name: Ecology and Environment Engineering P.C.
Project Name/Event: Mr. C's Dry Cleaning / 002700.DC13.02.01.01	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s)	Present / Absent
	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 7933 1748 2034
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	5.0 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	03/09/2012
12. Time Received	09:05

Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
	HNO3	H2SO4	HCl	NaOH	H3PO4		
L0464-01	<2					H	
L0464-02	<2					H	

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

IR Temp Gun ID: *MT-1*

Coolant Condition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil A = Air

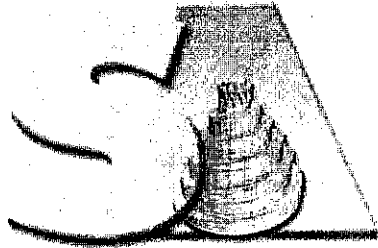
UA = Unpreserved Aqueous H = HCl

M = MeOH E = Encore

N = NaHSO4 F = Freeze

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

EPA SAMPLE NO.
INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0464 Mod. Ref No.: _____ SDG No.: SL0464
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0464-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0138.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/09/2012
 % Moisture: not dec. Date Analyzed: 03/13/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
 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		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
156-59-2	cis-1,2-Dichloroethene		20	
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		33	
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		600	
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
1330-20-7	Xylene (Total)		10	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.: L0464 Mod. Ref No.: _____ SDG No.: SL0464
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0464-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0138.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/09/2012
 % Moisture: not dec. Date Analyzed: 03/13/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
 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		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	U
110-82-7	Cyclohexane		10	U
79-20-9	Methyl acetate		10	U
108-87-2	Methylcyclohexane		10	U

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.: L0464 Mod. Ref No.: _____ SDG No.: SL0464
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0464-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0104.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/09/2012
 % Moisture: not dec. Date Analyzed: 03/12/2012
 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		0.69	J
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		5.0	U
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		1.0	U
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		1.0	U
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		3.3	
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

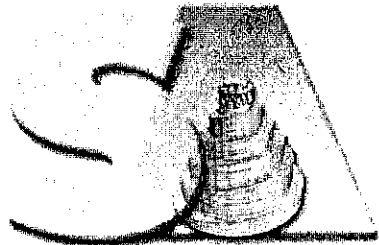
1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L0464 Mod. Ref No.: _____ SDG No.: SL0464
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L0464-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8B0104.D
 Level: (TRACE/LOW/MED) LOW Date Received: 03/09/2012
 % Moisture: not dec. Date Analyzed: 03/12/2012
 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.
Featuring
HANIBAL TECHNOLOGY

*** Wet Chemistry ***

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: L0464-01

Project: Mr. C's Dry Cleaning

Collection Date: 03/08/12 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	570		4.0	mg/L CaCO3		103/16/2012 12:29	65121
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.4		1.0	S.U.		103/09/2012 9:48	R65783

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: L0464-02

Collection Date: 03/08/12 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	580		4.0	mg/L CaCO3		103/16/2012 12:33	65121
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.1		1.0	S.U.		103/09/2012 9:54	R65783

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
Summary of Site Utility Costs and Projections
January to December 2012

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs
NYSDEC Work Assignment #DC13
12 Months of System Operation and Maintenance
March 2012 Report

Month	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:	Budget Remaining:	Electric:	Telephone:	Gas	Total:
	692	692	100.00%	13.8%	Mid January					
January-12	692	692	100.00%	13.8%	Mid January					
February-12	788	788	100.00%	11.7%	Mid February					
March-12			#DIV/0!	10.6%	Very Mild March					
April-12			#DIV/0!							
May-12			#DIV/0!							
June-12			#DIV/0!							
July-12			#DIV/0!							
August-12			#DIV/0!							
September-12			#DIV/0!							
October-12			#DIV/0!							
November-12			#DIV/0!							
December-12			#DIV/0!							
Totals to Date	1460	1460	100.00%							\$9,605.89

* 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	\$	1,187.98								
Arway Electric	\$	168.31								
Mr. C's Gas	\$	184.52								
Mr. C's Telephone	\$	-								
Ave. Utility Cost Total	\$	1,540.81	times	12 Month Estimate	\$20,030.49					