ecology and environment engineering, p.c.

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

August 10, 2010

Mr. William Welling PE, 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
July 2010 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the July 2010 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) on July 9, 2010 are provided as Attachment B. The full analytical report 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 July 2010, 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 7/6, 7/12, 7/20, 7/26, and 8/4/10.
- Based on the weekly inspection results performed by IEG, the remedial treatment system had a 100.00% operational up-time (Table 1) for July 2010 and the treatment of contaminated groundwater totaling of 450,503 gallons (Table 2).
- The analytical samples for the monthly compliance were taken on July 7, 2010. The sampling results were received by EEEPC on July 27, 2010. Excerpts from the Analytical Data package for the July 7, 2010 sampling event are presented in Attachment B.
- A review of the analytical data revealed the influent concentration to be 865.2 ug/L or 865.2 ppb, and 3.10 ug/L or 3.10 ppb of treated effluent. The summary of influent and effluent contaminant concentrations for July 2010 is presented in Table 4.

- Overall cleanup efficiency for the contaminants of concern at the site during the reporting period 7/610 to 8/4/10 was 99.64%.
- The air stripper unit on the Mr. C's property is 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 July 2010 is presented in Table 3.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 3.24 lbs of targeted contaminants from the groundwater below the site in the month of July 2010. The calculations and data for the month and entire year of 2010 are presented in Table 5.
- An electrical overload activated the system alarm repeatedly. IEG has addressed the issue and reset the temperature alarm.
- On July 20th, pumping well PW-4 was observed to have been completely patched over with asphalt.

The air stripper unit on Mr. C's property continues to be in compliance and provide analytical data to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. Based on analytical results for the July 7, 2010 sampling event, the Mr. C's treatment system continues to effectively remove targeted contaminants from the groundwater below the site in accordance with the SPDES Equivalency permit.

Agway Site Remedial Information

- The vapor extraction system was shut down from July 26th to present because of a faulty compressor motor. The motor is burnt up and will need to be replaced.

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

- No current operational issues.

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 July 2010 and year to date are provided as Attachment C.

If you have questions regarding the July 2010 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- 002700.DC13.02.01.01

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 1/5/10)	**61,992.50**	**95.99%**
January 5, 2010 - February 1, 2010	648	100.00%
February 1, 2010 - March 2, 2010	696	100.00%
March 2, 2010 - March 30, 2010	672	100.00%
March 30, 2010 - April 27, 2010	672	100.00%
April 27, 2010 - June 2, 2010	816	94.44%
June 2, 2010 - July 6, 2010	816	100.00%
July 6, 2010 - August 4, 2010	696	100.00%
August 2010		
September 2010		
October 2010		
November 2010		
December 2010		
Total Hours from System Startup '2/02'	**67,008.50**	
Average Operational Up-time from startup =		**96.21%**
Average Operational Up-time for 2010 =		**99.05%**

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
Total - Inception to December 2009	**9/5/02 - 1/5/10**	**109,009,157**
January 2010[3]	1/5/10 - 2/1/10	648,852
February 2010[3]	2/1/10 - 3/2/10	672,687
March 2010[3]	3/2/10 - 3/30/10	491,152
April 2010[3]	3/30/10 - 4/27/10	228,188
May 2010[3]	4/27/10 - 6/2/2010	322,174
June 2010[3]	6/2/2010 - 7/6/2010	268,627
July 2010[3]	7/6/2010 - 8/4/2010	450,503
August 2010[3]		
September 2010[3]		
October 2010[3]		
November 2010[3]		
December 2010[3]		
Total Gallons Treated in 2010		**3,082,183**
Total Gallons Treated To Date:		**112,091,340**

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	July 7, 2010 Effluent Analytical Values - Compliance
Flow		gpd	15,534.59
pH	6.0 - 9.0	standard units	8.10
1,1 Dichloroethene	10	µg/L	ND(<1.0)
1,2 Dichloroethane	10	µg/L	ND(<1.0)
cis-1,2-dichloroethene	10	µg/L	ND(<1.0)
Trichloroethene	10	µg/L	ND(<1.0)
Tetrachloroethene	10	µg/L	2.1
Vinyl Chloride	10	µg/L	ND(<1.0)
Benzene	5	µg/L	ND(<1.0)
Ethylbenzene	5	µg/L	ND(<1.0)
Methylene Chloride	10	µg/L	ND(<1.0)
1,1,1 Trichloroethane	10	µg/L	ND(<1.0)
Toluene	5	µg/L	ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	1.0
o-Xylene[3]	5	µg/L	NA
m, p-Xylene[3]	10	µg/L	NA
Total Xylenes	NA	ug/L	ND(<1.0)
Iron, total	600	µg/L	NA[9]
Aluminum	4,000	µg/L	NA[9]
Copper	48	µg/L	NA[9]
Lead	11	µg/L	NA[9]
Manganese	2,000	µg/L	NA[9]
Silver	100	µg/L	NA[9]
Vanadium	28	µg/L	NA[9]
Zinc	230	µg/L	NA[9]
Total Dissolved Solids	850	mg/L	NA[9]
Total Suspended Solids	20	mg/L	NA[9]
Hardness	N/A	mg/l	490
Cyanide, Free	10	µg/L	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 taken July 6, 2010 through August 4, 2010. Total gallons: 450,503 divided by 29 operating days (696 actual operating hours).
7. "J" 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 4
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
July 2010 VOC Analytical Summary

Compound	Based on the 7/7/10 Effluent Sampling Results				
	Influent Concentration* (ug/L)		Effluent Concentration* (ug/L)		Cleanup Efficiency** (%)
Acetone	ND (<50.0)	U	ND (<5.0)	U	NA
Benzene	ND (<10.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<50.0)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	16.0		ND (<1.0)	U	100.00%
Methylene chloride	ND (<10.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	6.2	J	1		83.87%
Tetrachloroethene	810.0		2.1		99.74%
Toluene	ND (<10.0)	U	ND (<1.0)	U	NA
Trichloroethene	33.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<10.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<10.0)	U	ND (<1.0)	U	NA
Cyclohexane	ND (<10.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<10.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<10.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<10.0)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<10.0)	U	ND (<1.0)	U	NA
July 7, 2010 TOTALs (in ug/L) =	**865.2**		**3.10**		**99.64%**

Notes:

1. "NA" = Not applicable
2. "ND" or "U" = Compound analyzed, but was not detected. Detection limit in parentheses
3. "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" = Compounds identified in analysis required secondary dilution factoring.
6. "B" indicates analyte found in the associated blank.

* (<50) - Detection Limit

** Contaminants of Concern only

Attachment A
IEG Weekly Inspection Reports
July 2010

Including:

7/6/10

7/12/10

7/20/10

7/26/10

8/4/10

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

DATE: 6-Jul-10 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen, D. Iyer OTHER PERSONNEL: Caroll Plumbing

WEATHER CONDITIONS: Partly cloudy, hot OUTSIDE TEMPERATURE (°F): 85

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

PW-7 does not cycle. Maintains level 10 while constantly ON.

Turned PW-7 and PW-8 OFF in order to find the source of the electrical overload that trips the Auto Dialer.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: ____	OFF: √	5 ft	PW-5	ON: √	OFF: ____	8 ft
PW-2	ON: ____	OFF: √	6 ft	PW-6	ON: ____	OFF: √	3 ft
PW-3	ON: ____	OFF: √	7 ft	PW-7	ON: √	OFF: ____	10 ft
PW-4	ON: ____	OFF: √	7 ft	PW-8	ON: √	OFF: ____	4 ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 7/6/10 Air Stripper Low Level

NOTES: ____

INFLUENT FLOW RATE: 13 gpm INFLUENT TOTALIZER READING: 8,568,240.0 gallons

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

SEQUESTERING AGENT FEED RATE: 7.0 ml/min METERING PUMP PRESSURE: 3.0 psi

	Top	Bottom		Top	Bottom
BAG FILTER PRESSURES: LEFT:	0	0 psi	RIGHT:	7	0 psi

INFLUENT FEED PUMP IN USE: #1 ____ #2 √ INFLUENT PUMP PRESSURE: 19 psi

AIR STRIPPER BLOWER IN USE: #1 ____ #2 √ AIR STRIPPER PRESSURE: 36.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.024 in. H_2O DISCHARGE PRESSURE: 0.1 in. H_2O

EFFLUENT PUMP IN USE: #1 √ #2 ____ EFFLUENT FEED PUMP PRESSURE: 6.0 psi

EFFLUENT FLOW RATE: 90 gpm EFFLUENT TOTALIZER READING: 59,409,201 679990 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

6-Jul-10

SAMPLES COLLECTED? YES: √ NO: _____

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	11:30 AM	7.36	7.95	19.7	2891
AIR STRIPPER EFFLUENT:	EFF	11:30 AM	8.49	19.7	21.5	2824

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-4C is damaged.

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

Remarks: Troubleshoot Electrical System - (2) pumps will be turned OFF every day in an attempt to isolate the overload signal.

PW-7 and PW-8 were shut OFF. PW-5 and PW-6 were shut OFF. Alarm continued to signal electrical overload.

Other Actions: Blower #1 - replaced starter motor (contactor). Blower #2 - replaced starter motor (contactor). Contacts were melted.

Influent Pump #2 - replaced starter motor (contactor). Contacts were melted.

Equalizeation Tank - changed settings from: 8,5 and 3 to 8,6 and 2.

RW-1 - replaced starter motor (contactor).

AGWAY

SYSTEM VACUUM: -21 in. H_2O *AIR PRESSURE:* 75 psi

SP-1:	0.0 scfm	25.0 psi		SP-5	0.0 scfm	28.5 psi	
SP-2:	0.0 scfm	> 30 psi		SP-6	0.0 scfm	30.0 psi	
SP-3:	0.0 scfm	> 30 psi		SP-7	0.0 scfm	> 30 psi	
SP-4:	0.0 scfm	> 30 psi		SP-8	0.0 scfm	> 30 psi	

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

Remarks: SVE vacuum drum is dry.

Trimmed down plants around shed and well groups PW-2 and PW-3.

Other Actions:

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

DATE: 12-Jul-10 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: ----

WEATHER CONDITIONS: Partly cloudy OUTSIDE TEMPERATURE (°F): 75

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

RW-1 - turned OFF to try to isolate electrical overload source. Turned back ON.

PW-2 and PW-3 - turned OFF to try to isolate electrical overload. PW-4 turned OFF to try to find electrical overload.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: ____	OFF: √	6 ft	PW-5	ON: √	OFF: ____	10 ft
PW-2	ON: ____	OFF: √	7 ft	PW-6	ON: √	OFF: ____	14 ft
PW-3	ON: √	OFF: ____	8 ft	PW-7	ON: √	OFF: ____	10 ft
PW-4	ON: √	OFF: ____	7 ft	PW-8	ON: √	OFF: ____	8 ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 7/12/10 Air Stripper High Level

NOTES: ____

INFLUENT FLOW RATE: 19 gpm INFLUENT TOTALIZER READING: 8,718,087.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 22 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 37 gallons

SEQUESTERING AGENT FEED RATE: 7.0 ml/min METERING PUMP PRESSURE: 2.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	0	0 psi	RIGHT:	8	0 psi

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

AIR STRIPPER BLOWER IN USE: #1 √ #2 ____ AIR STRIPPER PRESSURE: 37.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.025 in. H_2O DISCHARGE PRESSURE: 0.1 in. H_2O

EFFLUENT PUMP IN USE: #1 ____ #2 √ EFFLUENT FEED PUMP PRESSURE: 5.0 psi

EFFLUENT FLOW RATE: 110 gpm EFFLUENT TOTALIZER READING: 59,503,772 | 775180 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

12-Jul-10

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-4C is damaged. Town patched over PZ-4C and around PW-4 and PZ-4D.

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

Remarks: Responded to multiple AutoDialer calls for electrical overload. Turned well pumps OFF at set times to attempt to find the problem.

Other Actions: EQALIZATION TANK - made access hole for water level meter in breather "T" on top of the tank.

Changed Bag filters.

Sump Pump pipe disconnected from Equalization Tank. Put pipe back in place with cement.

Repaired Redux line connection to Influent Pipe.

AGWAY

SYSTEM VACUUM: -21 in. H_2O *AIR PRESSURE:* 90 psi

SP-1:	0.0 scfm	25.0 psi		SP-5	0.0 scfm	28.0 psi	
SP-2:	0.0 scfm	> 30 psi		SP-6	0.0 scfm	30.0 psi	
SP-3:	0.0 scfm	30.0 psi		SP-7	0.0 scfm	> 30 psi	
SP-4:	0.0 scfm	> 30 psi		SP-8	0.0 scfm	> 30 psi	

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

Remarks: SVE vacuum drum is dry.

Other Actions: Champion Compressor Maintenance - cleaned, tightened bolts and fittings, changed oil, changed air filter.

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

DATE: 20-Jul-10 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: Caroll Plumbing

WEATHER CONDITIONS: Cloudy, warm OUTSIDE TEMPERATURE (°F): 79

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

PW-7 remains ON and does not cycle down.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON:		OFF: √	8 ft	PW-5	ON:		OFF: √	3 ft
PW-2	ON:		OFF: √	7 ft	PW-6	ON:		OFF: √	6 ft
PW-3	ON:		OFF: √	5 ft	PW-7	ON:	√	OFF:	10 ft
PW-4	ON:		OFF: √	6 ft	PW-8	ON:		OFF: √	6 ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 7/12/10 Air Stripper Low Level

NOTES:

INFLUENT FLOW RATE: 7 gpm INFLUENT TOTALIZER READING: 8,921,392.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 14 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 24 gallons

SEQUESTERING AGENT FEED RATE: 6.0 ml/min METERING PUMP PRESSURE: 2.0 psi

BAG FILTER PRESSURES:	Top	Bottom			Top	Bottom	
LEFT:	0	0	psi	RIGHT:	6	0	psi

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

AIR STRIPPER BLOWER IN USE: #1 √ #2 AIR STRIPPER PRESSURE: 38.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.025 in. H_2O DISCHARGE PRESSURE: 0.6 in. H_2O

EFFLUENT PUMP IN USE: #1 #2 √ EFFLUENT FEED PUMP PRESSURE: 10.0 psi

EFFLUENT FLOW RATE: 107 gpm EFFLUENT TOTALIZER READING: 59,623,064 | 895250 gallons

ARE BUILDING HEATERS IN USE? YES: NO: √ INSIDE TEMPERATURE (°F): 90

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

20-Jul-10

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-4C is now completely patched over with asphalt.

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

Remarks:

Other Actions:

AGWAY

SYSTEM VACUUM: -21 in. H_2O *AIR PRESSURE:* 115 psi

SP-1:	0.0	scfm 26.0	psi	SP-5	0.0	scfm 28.5	psi
SP-2:	0.0	scfm > 30	psi	SP-6	0.0	scfm > 30	psi
SP-3:	0.0	scfm > 30	psi	SP-7	0.0	scfm > 30	psi
SP-4:	0.0	scfm > 30	psi	SP-8	0.0	scfm > 30	psi

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

Remarks:

Other Actions: Replaced Champion Compressor belts. Repaired belt guard and reinstalled.

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

DATE: 26-Jul-10 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (°F): 78

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

PW-7 remains ON at level 10.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON:		OFF: √	5 ft	PW-5	ON:		OFF: √	7 ft
PW-2	ON:		OFF: √	5 ft	PW-6	ON:		OFF: √	6 ft
PW-3	ON: √		OFF:	8 ft	PW-7	ON: √		OFF:	10 ft
PW-4	ON:		OFF: √	7 ft	PW-8	ON: √		OFF:	6 ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 7/12/10 Air Stripper Low Level

NOTES:

INFLUENT FLOW RATE: 11 gpm INFLUENT TOTALIZER READING: 9,086,370.0 gallons

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

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

		Top	Bottom			Top	Bottom	
BAG FILTER PRESSURES:	LEFT:	0	0	psi	RIGHT:	8	0	psi

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

AIR STRIPPER BLOWER IN USE: #1 √ #2 AIR STRIPPER PRESSURE: 39.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.025 in. H_2O DISCHARGE PRESSURE: 0.5 in. H_2O

EFFLUENT PUMP IN USE: #1 #2 √ EFFLUENT FEED PUMP PRESSURE: 9.0 psi

EFFLUENT FLOW RATE: 104 gpm EFFLUENT TOTALIZER READING: 59,719,814 | 992480 gallons

ARE BUILDING HEATERS IN USE? YES: NO: √ INSIDE TEMPERATURE (°F): 88

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

26-Jul-10

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:

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

Remarks:

Other Actions: Emptied old Redux drum into new drum. Rinsed out old drum. Have (1) full drum.

AGWAY

SYSTEM VACUUM: -22 in. H_2O *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; Cut down weeds around shed.

SVE vacuum drum is dry.

Other Actions: Compressor motor not working. Shut down system. Remove motor and bring to S&S Electric for repair.

S&S Electric advises that motor is burned up and not worth repairing.

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

DATE: 4-Aug-10 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: ------

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

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

PW-7 remains ON at level 11.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON:		OFF: √	6 ft	PW-5	ON:		OFF: √	7 ft
PW-2	ON:		OFF: √	6 ft	PW-6	ON:		OFF: √	6 ft
PW-3	ON: √		OFF:	5 ft	PW-7	ON: √		OFF:	11 ft
PW-4	ON:		OFF: √	5 ft	PW-8	ON: √		OFF:	6 ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 7/12/10 Air Stripper Low Level

NOTES:

INFLUENT FLOW RATE: 20 gpm INFLUENT TOTALIZER READING: 9,326,714.0 gallons

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

SEQUESTERING AGENT FEED RATE: 4.0 ml/min METERING PUMP PRESSURE: 2.0 psi

BAG FILTER PRESSURES:	Top	Bottom		Top	Bottom	
LEFT:	8	0	psi	RIGHT: 15	0	psi

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

AIR STRIPPER BLOWER IN USE: #1 √ #2 AIR STRIPPER PRESSURE: 40.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.022 in. H_2O DISCHARGE PRESSURE: 0.5 in. H_2O

EFFLUENT PUMP IN USE: #1 #2 √ EFFLUENT FEED PUMP PRESSURE: 10.0 psi

EFFLUENT FLOW RATE: 104 gpm EFFLUENT TOTALIZER READING: 59,859,704 | 132720 gallons

ARE BUILDING HEATERS IN USE? YES: NO: √ INSIDE TEMPERATURE (°F): 90

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

4-Aug-10

SAMPLES COLLECTED? YES: √ NO: _____

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	10:30am	7.52	8.14	22	2800
AIR STRIPPER EFFLUENT:	EFF	10:30am	8.24	7.38	22.0	2746

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: √

The library driveway and parking lot was sealed

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

Remarks: Switched Redux pickup to new drum. Have (1) full drum left

Reset Jesco Pump to: Left 2.1; Right 1.2

Other Actions: Changed bag filters; round bottom basket had torn filter.

AGWAY

SYSTEM VACUUM: _____ in. H_2O *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 shut down because of faulty compressor motor - at repair shop

Other Actions:

MR. C's DRY CLEANERS SITE
NYSDEC Site #9-15-157

OM&M: PIEZOMETER WATER LEVEL LOG

Date: 13-Jul-10 **Measurements taken by:** R. Allen

RW-1	14.30 ft	Comments:	
PZ-1A	11.41 ft	Comments:	
PZ-1B	11.16 ft	Comments:	
PZ-1C	12.33 ft	Comments:	
PZ-1D	12.46 ft	Comments:	
PW-2	11.05 ft	Comments:	
PZ-2A	10.96 ft	Comments:	
PZ-2B	11.32 ft	Comments:	
PZ-2C	10.86 ft	Comments:	
MW-7	11.37 ft	Comments:	Substitute for 2D
PW-3	11.60 ft	Comments:	
PZ-3A	11.50 ft	Comments:	
PZ-3B	11.55 ft	Comments:	
PZ-3C	12.03 ft	Comments:	
PZ-3D	11.58 ft	Comments:	
PW-4	----- ft	Comments:	Patched over
PZ-4A	11.40 ft	Comments:	
PZ-4B	11.10 ft	Comments:	
PZ-4C	----- ft	Comments:	damaged
PZ-4D	10.61 ft	Comments:	

PW-5	13.30 ft	Comments:	
PZ-5A	10.63 ft	Comments:	
PZ-5B	10.91 ft	Comments:	
PZ-5C	10.50 ft	Comments:	
PZ-5D	11.21 ft	Comments:	
PW-6	19.50 ft	Comments:	
PZ-6A	11.78 ft	Comments:	
PZ-6B	11.64 ft	Comments:	
PZ-6C	11.84 ft	Comments:	
PZ-6D	11.52 ft	Comments:	Shown as RW-2 on map
PW-7	14.00 ft	Comments:	
MPI-6S	11.33 ft	Comments:	
PZ-7B	11.52 ft	Comments:	
OW-B	11.37 ft	Comments:	
PZ-7D	11.12 ft	Comments:	
PW-8	18.70 ft	Comments:	
PZ-8A	8.35 ft	Comments:	
PZ-8B	8.26 ft	Comments:	
PZ-8C	7.75 ft	Comments:	
PZ-8D	8.15 ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS

RW-1 pump on?		Yes	√	No	PW-5 pump on?		Yes	√	No
PW-2 pump on?		Yes	√	No	PW-6 pump on?		Yes	√	No
PW-3 pump on?		Yes	√	No	PW-7 pump on?		Yes	√	No
PW-4 pump on?		Yes	√	No	PW-8 pump on?	√	Yes		No

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 7/2010

DATE	ACTIVITY
1-Jul	OM&M office work
2-Jul	Blower #2 - instal repaired motor.
6-Jul	OM&M Weekly Inspection. Blower #2 - replace starter motor. RW-1 - replace starter motor. End of month summaries.
7-Jul	Blower #1 - replace starter motor. Influent Pump #2 - replace starter motor. Monthly samples. Agway Shed - trim weeds, lube compressor motor.
8-Jul	Troubleshoot system
9-Jul	Troubleshoot system.
10-Jul	Respond to alarm.
12-Jul	OM&M Weekly Inspection. Repair leak in Influent Pipe. Troulbleshoot system. Changed bag filters. Repaired sump pump pipe. Get supplies.
13-Jul	Troubleshoot system. Piezometer Readings. Respond to alarm.
14-Jul	Agway Shed - Champion Compressor maintenance. Get supplies.
15-Jul	Respond to alarm.
20-Jul	OM&M Weekly Inspection. Agway Shed - Champion Compressor repair belt guard, installed new belts.
21-Jul	OM&M office work
22-Jul	Check compressor.
26-Jul	OM&M Weekly Inspection. Champion Compressor - remove motor and take to S&S Electric. Get supplies.
27-Jul	OM&M office work
30-Jul	Switched Redux pickup to new drum. Rinsed old drum. Clean Treatment Room. Cut weeds down around Agway Shed and groups PW-2 and PW-3.

Mr. C's CLEANERS OM&M
STATUS OF OM&M ACTIVITIES BY IEG

as of 07/31/10

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Champion Compressor Electric motor is noisy	Grease motor to see if it will quiet down. If motor is still noisy - remove and take in for service. Motor responded to grease and fan adjustment.	Jun-10
RW-1 Replace Motor Starter	RW-1 motor starter developed problem and had to be rewired. Should get a spare motor starter in anticipation of further problems.	Jul-10
Repair PZ-4C	PZ-4C was damaged by a Town of Aurora snowplow. Top of inner ring and top cover were broken. Talked to Town and they placed a temporary cover inside the well to reduce the pedestrian tripping hazard. Ring and top cover should be replaced. If well is not to be used - cover with concrete or asphalt cap.	Jul-10
Replace SVE Vacuum Drum	Present Vacuum Drum inside Agway Shed is corroded. Replace drum.	To be ordered
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.	in progress
Service Compressor	Champion Machinery reveals compressor is a 1992 model. Compressor pump needs service, including a valve kit.	in progress
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 Automatic Tank Drain Valve (ATDV)	Factory recommends rebuilding the ATDV on a compressor of this age. Order rebuild kit and repair. Have purchased rebuild kit.	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
Purge PW-5	Inspect, purge well, clean pump, plastic pipe and transducer. Trouble shoot problems.	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.	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
Restart System after May storm	Blower #2 causes breaker in Air Stripper Control Panel to trip. Switch system to Bloweer #1. Troubleshoot and repair Blower #2. Removed and repaired #2 motor.	Jul-10
Troubleshoot electrical overload	Alarm calls repeatedly indicate an electrical power overload. System usually continues to run normally. Troubleshoot the source of the alarm and repair. Reset temperature alarm.	Jul-10
Champion Compressor replace belts	Belts are loose and the adjustment is at the end of the tightening limit. Replace both belts.	Jul-10
Champion Compressor repair belt guard	The belt guard is loose and wiggles during operation. Add braces to guard.	Jul-10
Repair Filter Basket	The handle loop on a filter basket broke. Weld handle back in place.	in progress
Blower #1 - replace starter motor (contactor)	The contactor is defective for this motor. Replace the unit.	Jul-10
Blower #2 - replace starter motor (contactor)	The contactor is defective for this motor. Replace the unit.	Jul-10
Influent Pump #2 - replace starter	The contactor is defective for this motor. Replace the unit.	Jul-10
Fix Leak in Influent Pipe	A leak started in the Redux fitting in the Influent Pipe. Replace corroded fitting.	Jul-10
Sump pump pipe disconnects	The sump pump pipe was not cemented onto the fitting at the Equalization Tank. Cement the loose pipe back onto the fitting.	Jul-10
Champion Compressor Maintenance	Change oil and air filter.	Jul-10
Champion Compressor not running	Diagnose problem to the electric motor. Remove and take to S&S Electric for repair. Motor is burned up and not worth repairing. Awaiting instructions from E&E.	in progress

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG

as of Jul 10

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

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2010

as of Jul 10

ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	CLEANED & INSPECTED U.E.	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANED	NEEDS REPAIR
RW - 1	NO	NO		YES	NO	NO		YES	NO	YES - bolts
PW - 2	NO	NO		**YES**	NO			**DONE 9/09**	NO	YES - bolts
PW - 3	NO	NO	**REPAIRED 8/09**	**DONE 8/09**	NO	NO		YES	NO	NO
PW - 4	NO	NO		**DONE 9/09**	**NO**		**YES 9/09**	**DONE 9/09**	DONE	YES - Asphalt patch
PW - 5	NO	NO		YES	**YES 7/09, Problem 11/09**	problems 1/09 and 11/09		DONE	NO	NO
PW - 6	NO	**DONE 8/09**	**Replaced pipe 8/09**	**DONE 8/09**	**YES 7/09**	NO	**YES 9/09**	**DONE 9/09**	NO	DONE
PW - 7	NO	**YES**	**Replaced pipe 8/09**	**NO**	**NO**	NO		DONE	NO	NO
PW - 8	NO	**DONE 9/09**	**Replaced pipe 8/09**	**NO**	**NO**	NO		YES	NO	NO

Attachment B
Analytical Report from Mitkem Laboratories

Analytical Data Package Work Order ID: J1376
Sampled: July 7, 2010
Analyzed: July 9, 2010

Analytical Data Package for Ecology & Environment Engineering, P.C. (EEEPC)

Client Project No.: Mr. C's Dry Cleaners Site (Compliance)

Mitkem Work Order ID: J1376

July 27, 2010

Prepared For:

Ecology & Environment Engineering P.C.
368 Pleasantview Drive
Lancaster, NY 14086
Attn: Mr. Michael Steffan

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Ecology & Environment, Inc's Mr. C's Dry Cleaners (Compliance) project. Under this deliverable, analyses results are presented for two aqueous samples that were received on July 8, 2010. Analyses were performed per specifications in the project's contract and the chain of custody form. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID and laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000 update) and reported per NYSDEC ASP requirement for Category A deliverable with the exception of hardness and pH. The analysis results for hardness and pH are presented in the standard Mitkem format.

The following observation and/or deviations are observed for the following analyses:

1. Overall observation:

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

To meet specific project requirements, a 1ppb standard was analyzed in the initial calibration to achieve a lower reporting limit. All the target analytes, with the exception of the ketones have been reported to 1ppb. The ketones have been reported to 5 ppb.

Trap used for instrument V6: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Aqueous samples were hydrochloric acid preserved, pH <2.

Surrogate recovery: recoveries were within the QC limits.

Laboratory control sample/laboratory control sample duplicate: spike recoveries and replicate RPDs were within the QC limits.

Sample analysis: due to high concentration of tetrachloroethene, sample INFLUENT was analyzed at 10x dilution. No other unusual observation was made for this analysis.

2. Wet Chemistry Analyses:

Sample analysis: no unusual observation was made for the analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Huntley

Agnes Huntley
CLP Project Manager
07/27/10

WorkOrder: J1376

07/27/2010 13:47

Mitkem Laboratories

Client ID: ENE
Project: Mr. C's Dry Cleaning
WO Name: Mr. C's Dry Cleaning
Location: MR_C_COMPLIANCE, 002700.DC13.02.01.01

Case:
SDG:

HC Due: 07/27/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: ENE

PO: 002700.DC13.02.01.01

Comments: 1 ppb ICAL for VOA. Run Influent sample by 10 X dilution, low result in effluent expected. Send hard copy by overnight saver. Have to be on time.

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1376-01A	INFLUENT	07/07/2010 12:00	07/08/2010	Aqueous	SW8260_W	/ OLM_VOA, 1 ppb ICAL				Y	VOA
J1376-01B	INFLUENT	07/07/2010 12:00	07/08/2010	Aqueous	SM4500_H+	/					F3
J1376-01C	INFLUENT	07/07/2010 12:00	07/08/2010	Aqueous	SM2340_W	/					M4
J1376-02A	EFFLUENT	07/07/2010 12:00	07/08/2010	Aqueous	SW8260_W	/ OLM_VOA, 1 ppb ICAL				Y	VOA
J1376-02B	EFFLUENT	07/07/2010 12:00	07/08/2010	Aqueous	SM4500_H+	/					F3
J1376-02C	EFFLUENT	07/07/2010 12:00	07/08/2010	Aqueous	SM2340_W	/					M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

Sample Transmittal Documentation

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- 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, Inc
368 Pleasantview Dr
Lancaster, NY 14086

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

Invoice To: E & E, Inc

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: Mr Cs O M & M
Location: East Aurora State: NY
Sampler(s): R. Allen

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= _____ 10= _____ 11= _____

List preservative code below: 4 | 2

QA/QC Reporting Notes: (check as needed)

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

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: pH	Hardness	VOC
J13716-01	INFLUENT	7/7/10	12:00 pm	G	GW				1	✓		
↓	INFLUENT		12:00 pm	G	GW				1		✓	
↓	INFLUENT		12:00 pm	G	GW	2						✓
J13716-02	EFFLUENT		12:00 pm	G	GW				2	✓		
↓	EFFLUENT		12:00 pm	G	GW				1		✓	
↓	EFFLUENT		12:00 pm	G	GW	2						✓

QA/QC Reporting Notes (check as needed):
- ☐ Provide MA DEP MCP CAM Report
- ☐ Provide CT DPH RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☒ Other CAT A

State specific reporting standards: _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
Richard C Allen Jr	[signature]	7/8/10	11:45	7°C

☒ EDD Format PDF
☒ E-mail to msteffan@ene.com

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

9000

MITKEM LABORATORIES

Sample Condition Form

Received By: VEG | Reviewed By: CAW | Date: 7/8/10 | Mitkem Work Order #: J1376

Client Project: NR-C-Compliance | Client: ENE

1) Cooler Sealed: (Yes) / No

2) Custody Seal(s): (Present) / Absent; (Coolers) / Bottles; (Intact) / Broken

3) Custody Seal Number(s): NA

4) Chain-of-Custody: (Present) / Absent

5) Cooler Temperature: 7°C
IR Temp Gun ID: MT-1
Coolant Condition: ICE

6) Airbill(s): (Present) / Absent
Airbill Number(s): UPS ~~FDX~~ VEG 7/8/10
1ZFR87251399187870

7) Samples Bottles: (Intact) / Broken / Leaking

8) Date Received: 7/8/10

9) Time Received: 11:45

Preservative Name/Lot No.:

Lab Sample ID		HNO$_3$	H_2SO_4	HCl	NaOH	H_3PO_4	VOA Matrix	Soil Headspace or Air Bubble ≥ 1/4"
J1376	01	<2					H	
J1376	02	<2					H	

VEG 7/8/10

VOA Matrix Key:
US = Unpreserved Soil; A = Air
UA = Unpreserved Aqueous; H = HCl
M = MeOH; E = Encore
N = NaHSO4; F = Freeze

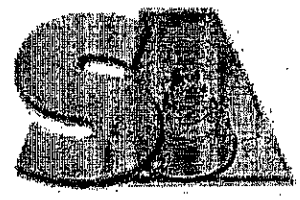
See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes / no

Form ID: QAF.0006

Y:\Controlled Forms\sample condition form

MITKEM LABORATORIES



* Volatiles *

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1376 Mod. Ref No.: SDG No.: SJ1376

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1376-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5888.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/08/2010

% Moisture: not dec. Date Analyzed: 07/09/2010

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: (ug/L or ug/Kg) µG/L	Q
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	6.2	J
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	50	U
156-59-2	cis-1,2-Dichloroethene	16	
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	810	
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: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1376 Mod. Ref No.: SDG No.: SJ1376

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1376-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5888.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/08/2010

% Moisture: not dec. Date Analyzed: 07/09/2010

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: (ug/L or ug/Kg) µG/L	Q
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: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1376 Mod. Ref No.: SDG No.: SJ1376

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1376-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5889.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/08/2010

% Moisture: not dec. Date Analyzed: 07/09/2010

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) µG/L	Q
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	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	
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	2.1	
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: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1376 Mod. Ref No.: SDG No.: SJ1376

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1376-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5889.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/08/2010

% Moisture: not dec. Date Analyzed: 07/09/2010

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) µG/L	Q
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

MITKEM LABORATORIES

* Wet Chemistry *

Mitkem Laboratories

Date: *15-Jul-10*

Client: Ecology and Environment Engineering P.C.
Client Sample ID: INFLUENT
Lab ID: J1376-01
Project: Mr. C's Dry Cleaning
Collection Date: 07/07/10 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							**SM2340_W**
Hardness, Ca/Mg (As CaCO3)	510		4.0	mg/L CaCO3	1	07/12/2010 15:01	52876
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.9		1.0	S.U.	1	07/08/2010 16:05	R50591

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation 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

Mitkem Laboratories

Date: *15-Jul-10*

Client: Ecology and Environment Engineering P.C.
Client Sample ID: EFFLUENT
Lab ID: J1376-02

Project: Mr. C's Dry Cleaning
Collection Date: 07/07/10 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							**SM2340_W**
Hardness, Ca/Mg (As CaCO3)	490		4.0	mg/L CaCO3	1	07/12/2010 15:04	52876
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	8.1		1.0	S.U.	1	07/08/2010 16:10	R50591

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation 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 2010

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

ATTACHMENT C

NYSDEC Work Assignment #DC13.02.01.01

12 Months of System Operation and Maintenance

July 2010 Report

Utility Budget:	
Electric:	$25,800.00
Telephone:	$540.00
Gas	$720.00
Total:	$27,060.00

Gas, Telephone, and Electric

Utility Provider	Account #	E&E Cost Center	Description	Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010
New York State E&G	06-311-11-002616-26	002700.DC13.02.01	Mr. C's Electric Costs	$672.56	$ 613.69	$ 599.67	$ 878.92	$ 996.65	$ 870.21
New York State E&G	76-311-11-015900-18		Agway Site - Electric		$ 525.65		$445.56		$497.79
National Fuel Gas	5819628-05	002700.DC13.02.01	Mr. C's Natural Gas Costs	$168.02	$ 115.66	$ 107.95		$ 75.26	
			Totals	$ 840.58	$ 1,255.00	$ 707.62	$ 1,324.48	$ 1,071.91	$ 1,368.00

	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010	Ave. /Month
Mr. C's Electric Costs							$ 771.95
Agway Electric							$ 489.67
Mr. C's Natural Gas Costs	$8.73						$ 95.12
Totals	$8.73	$ -	$ -	$ -	$ -	$ -	$ 1,356.74

Electric	$6,100.70	
Natural Gas	$ 475.62	Overbilled natural gas costs - no charges
Grand Total - NYSE&G/National Fuel Gas Costs To Date	$ 6,576.32	Estimated Reading $ 333.44 in red -adjusted billing

Phone

Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010
Verizon	716-652-0094	002700.DC13.02.01	Mr. C's Telephone Costs	$ 30.04	$ 30.19	$ 30.19	$ 30.22	$ 30.29	
Account#									
716 652 0094 416 26 2									

	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010	Ave./Month
							$ 50.31

Grand Total - Verizon Costs to Date	$ 150.93
Grand Total All Utilities To Date	$ 6,727.25

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Cost					Budget Remaining:		Electric:	$19,699.30				ATTACHMENT C
NYSDEC Work Assignment #DC13							Telephone:	$389.07				
12 Months of System Operation and Maintenance							Gas	$244.38				
July 2010 Report							Total:	$20,332.75				
				Capacity	Comments:							
January-10	648	648	100.00%	21.4%	Cold January							
February-10	696	696	100.00%	20.7%	Cold February							
March-10	672	672	100.00%	15.6%	No snow and little rain in March							
April-10	672	672	100.00%	7.3%	Problems with RW- 1 pump							
May-10	864	816	94.44%	8.5%								
June-10	816	816	100.00%	7.0%	Dry month							
July-10	696	696	100.00%	13.8%	Problem with Pump PW-7							
August-10			#DIV/0!									
September-10			#DIV/0!									
October-10			#DIV/0!									
November-10			#DIV/0!									
December-10			#DIV/0!									
Totals to Date	5064	5016	99.05%									

* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on total gallonsdischargedfor 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						Total Gallons
						450503
Mr. C's Electric	$	771.95				
Agway Electric	$	489.67				
Mr. C's Gas	$	95.12				
Mr. C's Telephone	$	50.31				
Ave. Utility Cost Total	$	1,407.05	times	12 month Estimate	$18,291.66	