



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

June 9, 2009

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
May 2009 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the May 2009 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. (MTK) on May 4, 2009 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 May 2009, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations Information

- The treatment system was operational for 100.0% of the period between 5/4/09 and 6/2/09. Table 1 is provided to indicate the monthly operational time of the treatment equipment from the time of system startup.
- The effluent totalizer readings for the month of May 2009 indicate that approximately 891,641 gallons of groundwater were processed through the remedial treatment system for the period between 5/4/09 and 6/2/09. Table 2 provides a summary of groundwater volume treated since system start-up. Historical volumes are based on the totalizer readings provided by the subcontractor's weekly inspection forms.

- Checklists for weekly system inspections from IEG are provided as Attachment A for, 5/4, 5/12, 5/19, 5/27, and 6/2/09. Weekly system checks indicated that the air stripper differential pressure remained between 0.05 to 0.053 inches of water while air stripper pressure varied between 14.0 and 17.5 inches of water column during the month of May 2009. These levels are within the operating range recommended by the equipment manufacturer.
- Filter gauge pressure readings observed during weekly inspections ranged between 5.0 and 5.5 psi, which is within the maximum allowable 15 psi operational limit indicated in the system operation and maintenance manual.
- The Redux sequestering agent approved by SPDES Equivalency permit for use at the Mr. C's site continues to be added to the process stream in order to minimize mineral deposition on the air stripper orifice plates. During May 2009, the feed rate for the agent ranged between 5.0 and 7.0 ml/min.
- The analytical samples for the monthly compliance were performed on May 4, 2009. The sampling results were received by EEEPC on May 27, 2009 (Attachment B). A review of the analytical data revealed the influent concentration detection limits to be 957 ug/L or 957 ppb, and 0.0 ug/L or 0.0 ppb of treated effluent. The air stripper unit on Mr.C's property is in compliance MTK continues to provide analytical data to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. Based on analytical results for the May 4, 2009 sampling event, the Mr. C's treatment system continues to effectively remove targeted contaminants from the groundwater below the site.
- The total monthly volume of treated water through the treatment system during the May 2009 reporting period was less than that for the month of April 2009 by 290,000 gallons. The volume was less given that the overall operation time for the reporting period of May 2009 was approximately 100 hours less than April 2009.

Agway Site Remedial Information

- Road reconstruction continues in the frontage along Main Street in front of the Agway property. Equipment and construction materials have reappeared on the site along with increased traffic across the site. As per the Village Assessor the Agway property is owned by a new owner (Del-Tora – contact Robert Kowal - 716-796-4020) that resides in the village of East Aurora.
- IEG plans investigation of the SVE return lines for the Agway system once the road reconstruction has been completed along the front of the property later in 2009.

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

- The SSDS systems at the First Presbyterian Church and 27 Whaley Avenue continue to operate normally. The indoor ambient air report for the First Presbyterian Church was issued in January 2009. The final indoor air report for 27 Whaley Avenue was issued on April 10, 2009. In final review of the analytical results, the system is operating properly with PCE and TCE results below DOH guidelines.

Mr. William Welling PE, Project Manager
June 9, 2009
Page 3 of 3

Groundwater Monitoring Well Network

- Decommissioning of well MPI-14B was recommended in the Mr. C's Site Management Plan currently under review by NYSDEC.

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 May 2009 and year to date are provided as Attachment C.

Analytical Summary – Groundwater

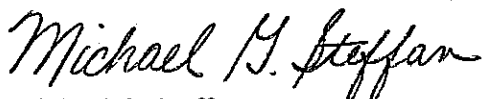
IEG personnel collected samples of influent and effluent groundwater from the Mr. C's Treatment System on May 4, 2009. Overall cleanup efficiency based on the recent analytical report (May 27, 2009 - Attachment B) for the reporting period 5/4/09 to 6/2/09 was 100.0% based on analytical testing performed by Mitkem Laboratories. Excerpts from the Analytical Data package for the May 27, 2009 sampling event are presented in Table 3.

The summary of Effluent Discharge Criteria & Analytical Compliance Results is presented in Table 4.

- Approximately 7.12 pounds of chlorinated volatile organic compounds (cVOCs) were removed from the influent groundwater based on calculations using the effluent discharge analytical results during the reporting period. A summary of the total calculated pounds of cVOC's removed by the system by month and by date is presented in Table 5. These values are based on effluent totalizer readings and assume that non-detect values given in the analytical data package = 0 $\mu\text{g/L}$; and that the monthly samples are indicative of the influent characteristics and system performance for the entire reporting period.

If you have questions regarding the May 2009 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 ¹
September 2002 ²	576	100%
October 2002	744	99.33%
November 2002	720	93.41%
December 2002	744	80.65%
January 2003	744	59.15%
February 2003	672	63.39%
March 2003	744	82.39%
April 2003	720	100%
May 2003	744	100%
June 2003	720	90.00%
July 2003	744	100%
August 2003	744	100%
September 1-4, 2003	96	100%
October 22 -29, 2003 ³	168	100%
October 29 - November 25, 2003	648	99%
November 25 - December 29, 2003	816	100%
December 29, 2003 – January 26, 2004	672	100%
January 26 – February 24, 2004	696	100%
February 24 – March 29, 2004	816	99.97%
March 29 – April 26, 2004	672	99.70%
April 26 – May 24, 2004	696	73.70%
May 24 – June 21, 2004	696	99.43%
June 22 – July 26, 2004	840	100%
July 27 – August 23, 2004	672	100%
August 23 - September 27, 2004	840	97.62%
September 27 - October 25, 2004	672	90.33%
October 25 - November 23, 2004	696	92.17%
November 23 - December 27, 2004	816	97.06%
December 27, 2004 - January 31, 2005	840	100%
January 31, 2005 - February 28, 2005	660	98.20%
February 28, 2005 - April 4, 2005	828	98.60%
April 4, 2005 - May 2, 2005	696	87.50%
May 2, 2005 - June 6, 2005	840	91.43%
June 6, 2005 - July 6, 2005	744	86.60%
July 6, 2005 - August 1, 2005	605.5	97.00%
August 1, 2005 - August 29, 2005	696	100.00%
Totals Page 1	25,037.50	93.80%

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

Month	Reporting Hours	Operational Up-time
Totals forward from Page 1 (8/29/05)	25,037.50	93.80%
October 3, 2005 - October 31, 2005	672	100.00%
October 31, 2005 - November 28, 2005	672	98.06%
November 28, 2005 - January 3, 2006	854	98.84%
January 3, 2006 - February 6, 2006	816	100.00%
February 6, 2006 - March 6, 2006	696	100.00%
March 6, 2006 - April 3, 2006	696	100.00%
April 3, 2006 - May 1, 2006	689	98.99%
May 1, 2006 - May 30, 2006	689	98.99%
May 31, 2006 - July 3, 2006	812	99.50%
July 3, 2006 - July 30, 2006	624	99.50%
July 30, 2006 - August 28, 2006	696	100.00%
August 28, 2006 - October 2, 2006	834	99.30%
October 2, 2006 - October 30, 2006	628	96.91%
October 30, 2006 - November 27, 2006	672	100.00%
November 27, 2006 - December 27, 2006	672	100.00%
December 27, 2006 - February 6, 2007	983	99.00%
February 6, 2007 - February 26, 2007	480	100.00%
February 26, 2007 - March 26, 2007	672	100.00%
March 26, 2007 - May 1, 2007	888	100.00%
May 1, 2007 - May 29, 2007	696	100.00%
May 29, 2007 - June 25, 2007	643	99.25%
June 25, 2007 - July 24, 2007	696	100.00%
July 25, 2007 - August 28, 2007	792	100.00%
August 28, 2007 - October 1, 2007	816	100.00%
October 1, 2007 - October 30, 2007	696	100.00%
October 30, 2007 - November 28, 2007	741	99.59%
November 28, 2007 - January 2, 2008	720	85.71%
January 2, 2008 - January 28, 2008	600	96.00%
January 28, 2008 - February 25, 2008	644	95.83%
February 25, 2008 - March 31, 2008	832	95.83%
March 31, 2008 - April 28, 2008	672	100.00%
April 28, 2008 - May 27, 2008	695	99.80%
May 27, 2008 - June 30, 2008	816	100.00%
June 30, 2008 - July 29, 2008	696	100.00%
July 29, 2008 - August 25, 2008	647	99.80%
August 25, 2008 - September 30, 2008	840	100.00%
September 30, 2008 - October 30, 2008	720	100.00%
October 30, 2008 - December 3, 2008	816	100.00%
December 3, 2008 - January 6, 2009	816	100.00%
January 6, 2009 - February 2, 2009	672	100.00%
February 2, 2009 - March 5, 2009	600	80.65%
March 5, 2009 - April 2, 2009	672	100.00%
April 2, 2009 - May 4, 2009	768	100.00%
May 4, 2009 - June 2, 2009	696	100.00%
Total Hours	56,784.50	
Average Operational Up-time =		96.89%

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
September 2002 ¹	9/5/02 - 10/2/02	4,362,477
October 2002 ¹	10/2/02 - 11/4/02	4,290,429
November 2002 ¹	11/4/02 - 12/2/02	3,326,126
December 2002 ¹	12/2/02 - 1/7/03	3,349,029
January 2003 ¹	1/7/03 - 2/3/03	1,973,144
February 2003 ¹	2/3/03 - 3/10/03	2,158,771
March 2003 ¹	3/10/03 - 4/7/03	3,263,897
April 2003 ¹	4/7/03 - 5/2/03	2,574,928
May 2003 ¹	5/2/03 - 6/2/03	1,652,538
June 2003 ¹	6/2/03 - 6/30/03	2,002,990
July 2003 ¹	6/30/03 - 7/29/03	2,543,978
August 2003 ¹	7/29/03 - 8/25/03	2,042,424
September 2003 ¹	8/25/03 - 10/22/03	370,446
October 2003 ²	10/22/03 - 10/29/03	67,424
November 2003 ²	10/29/03 - 11/25/03	224,278
December 2003 ²	11/25/03 - 12/29/03	1,496,271
January 2004 ²	12/29/03 - 01/26/04	688,034
February 2004 ²	01/26/04 - 02/24/04	736,288
March 2004 ²	02/24/04 - 03/29/04	2,164,569
April 2004 ²	03/29/04 - 04/26/04 -	1,741,730
May 2004 ²	4/26/2004 - 5/24/2004	1,408,095
June 2004 ²	5/24/2004 - 6/21/2004	972,132
July 2004 ²	6/22/2004 - 7/26/2004	1,858,790
August 2004 ²	7/27/04 - 8/23/04	1,289,960
September 2004 ²	8/23/04 - 9/27/04	1,201,913
October 2004 ²	9/27/04 - 10/25/04	937,560
November 2004 ²	10/25/04 - 11/23/04	1,098,158
December 2004 ²	11/23/04 - 12/27/04	1,556,063
January 2005 ²	12/27/04 - 1/31/05	1,798,238
February 2005 ²	1/31/05 - 2/28/05	1,271,562
March 2005 ²	2/28/05 - 4/4/05	1,295,692
April 2005 ²	4/4/05 - 5/2/05	1,652,510
May 2005 ²	5/2/05 - 6/6/05	1,423,099
June 2005 ²	6/6/05 - 7/6/05	877,988
July 2005 ²	7/6/05 - 8/1/05	1,283,302
August 2005 ²	8/1/05 - 8/29/05	1,443,195
Total Page 1	9/5/02 - 8/29/05	62,398,028

NOTES:

1. System operated by Tyree Organization Ltd. From 9/02 - 9/03
2. System operated by O&M Enterprises from 9/03 - 7/07
3. System operated by IEG 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 from Page 1	9/5/02 - 8/29/05	62,398,028
September 2005 ²	8/29/05 - 10/3/05	1,591,248
October 2005 ²	10/3/05 - 10/31/05	1,204,074
November 2005 ²	10/31/05 - 11/28/05	1,038,170
December 2005 ²	11/28/05 - 1/3/06	1,182,854
January 2006 ²	1/3/06 - 2/6/06	1,401,821
February 2006 ²	2/6/06 - 3/6/06	1,927,556
March 2006 ²	3/6/06 - 4/3/06	1,838,541
April 2006 ²	4/3/06 - 5/1/06	1,116,192
May 2006 ²	5/1/06 - 5/30/06	1,053,047
June 2006 ²	5/30/06 - 7/3/06	1,092,786
July 2006 ²	7/3/06 - 7/30/06	813,264
August 2006 ²	7/30/06 - 8/28/06	860,366
September 2006 ²	8/28/06 - 10/2/06	1,107,730
October 2006 ²	10/2/06 - 10/30/06	818,535
November 2006 ²	10/30/06 - 11/27/06	903,959
December 2006 ²	11/27/06 - 12/27/06	967,671
January 2007 ²	12/27/06 - 2/6/07	1,229,105
February 2007 ²	2/6/07 - 2/26/07	913,610
March 2007 ²	2/26/07 - 3/26/07	882,228
April 2007 ²	3/26/07 - 5/1/07	1,127,096
May 2007 ²	5/1/07 - 5/29/07	853,697
June 2007 ²	5/29/07 - 6/25/07	755,060
July 2007 ³	6/25/07 - 7/24/07	785,379
August 2007 ³	7/25/07 - 8/28/07	899,340
September 2007 ³	8/2/07 - 10/1/07	804,420
October 2007 ³	10/1/07 - 10/30/07	647,173
November 2007 ³	10/30/07 - 11/28/07	672,600
December 2007 ³	11/28/07 - 1/2/08	436,175
January 2008 ³	1/2/08 - 1/28/08	180,820
February 2008 ³	1/28/08 - 2/25/08	470,370
March 2008 ³	2/25/08 - 3/31/08	767,163
April 2008 ³	3/31/08 - 4/28/08	607,682
May 2008 ³	4/28/08 - 5/27/08	569,568
June 2008 ³	5/27/08 - 6/30/08	653,647
July 2008 ³	6/30/08 - 7/29/08	619,654
August 2008 ³	7/29/08 - 8/25/08	606,098
September 2008 ³	8/25/08 - 9/30/08	985,101
October 2008 ³	9/30/08 - 10/30/08	621,149
November 2008 ³	10/30/08 - 12/3/08	540,781
December 2008 ³	12/3/08 - 1/6/09	959,392
January 2009 ³	1/6/09 - 2/2/09	1,179,389
February 2009 ³	2/2/09 - 3/5/09	1,076,674
March 2009 ³	3/5/09 - 4/2/09	1,240,757
April 2009 ³	4/2/09 - 5/4/09	1,182,657
May 2009 ³	5/4/09 - 6/2/09	891,641
Total Gallons Treated To Date:		104,474,268

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
NYSDEC Site #9-15-157
May 2009 VOC Analytical Summary

Compound	Based on the 5/4/09 Effluent Sampling Results		
	Influent Concentration* (ug/L)	Effluent Concentration* (ug/L)	Cleanup Efficiency (%)
Acetone	ND (<50.0)	ND (<5.0)	NA
Benzene	ND (<10.0)	ND (<1.0)	NA
2-Butanone	ND (<50.0)	ND (<5.0)	NA
cis-1, 2-Dichloroethene	15.0	ND (<1.0)	100%
Methylene chloride	ND (<10.0)	ND (<1.0)	NA
Methyl tert-butyl ether (MTBE)	7.4	ND (<1.0)	NA
Tetrachloroethene	890.0	ND (<1.0)	100%
Toluene	ND (<10.0)	ND (<1.0)	NA
Trichloroethene	43.0	ND (<1.0)	100%
Carbon Disulfide	ND (<10.0)	ND (<1.0)	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<10.0)	ND (<1.0)	NA
Cyclohexane	ND (<10.0)	ND (<1.0)	NA
trans-1,2-dichloroethene	1.2	ND (<1.0)	NA
Methylcyclohexane	ND (<10.0)	ND (<1.0)	NA
Total Xylenes	ND (<10.0)	ND (<1.0)	NA
May 4, 2009 TOTALS (in ug/L) =	956.6	0.0	100.00%

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.

* (<50) - Detection Limit

Table 4
 Mr. C's Dry Cleaners Site Remediation
 Site #9-15-157
 Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	May 4, 2009 Effluent Analytical Values Compliance
Flow	216,000	gpd	30,746.24
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	ND (<1.0)
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	µg/L	ND (<1.0)
o-Xylene ³	5	µg/L	NA
m, p-Xylene ³	10	µg/L	NA
Total Xylenes	NA	µg/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	14	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	600
Cyanide, Free	10	µg/L	NA ⁹

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.
- Shaded 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 May 4, 2009 through June 2, 2009. Total gallons: 891,641 divided by 29 operating days (696 actual operating hours).
- "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.

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

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.)
September 2002 ⁶	9/5/02 - 10/2/02	1297	1	47.2
October 2002 ⁶	10/2/02 - 11/4/02	2000	1	71.6
November 2002 ⁶	11/4/02 - 12/2/02	1685	0	46.8
December 2002 ⁶	12/2/02 - 1/7/03	1586	9	44.1
January 2003 ⁶	1/7/03 - 2/3/03	1803	10	29.5
February 2003 ⁶	2/3/03 - 3/10/03	1985	3	35.7
March 2003 ⁶	3/10/03 - 4/7/03	1990	5	54.1
April 2003 ⁶	4/7/03 - 5/2/03	1656	3	35.5
May 2003 ⁶	5/2/03 - 6/2/03	1623	7	22.3
June 2003 ⁶	6/2/03 - 6/30/03	5787	6	96.6
July 2003 ⁶	6/30/03 - 7/29/03	1356	1	28.8
August 2003 ⁶	7/29/03 - 8/25/03	1263	3	21.5
September 2003 ⁶	8/25/03 - 10/22/03	1263	3	3.9
October 2003 ⁷	10/22/03 - 10/29/03	1693.69	1.47	1.0
November 2003 ⁷	10/29/03 - 11/25/03	2510.83	4.4	4.7
December 2003 ⁷	11/25/03 - 12/29/03	503.3	10.5	6.2
January 2004 ⁷	12/29/03 - 01/26/04	3667	15.8	21.0
February 2004 ⁷	01/26/04 - 02/24/04	3348.6	26.7	20.4
March 2004 ⁷	02/24/04 - 03/29/04	1939.3	4.96	34.9
April 2004 ⁷	03/29/04 - 04/26/04	2255	0.0	32.8
May 2004 ⁷	4/26/2004 - 5/24/2004	2641	13.3	30.9
June 2004 ⁷	5/24/2004 - 6/21/2004	1454	1.7	22.5
July 2004 ⁷	6/22/2004 - 7/26/2004	1313	3.6	20.3
August 2004 ⁷	7/27/04 - 8/23/04	2305	7.4	24.7
September 2004 ⁷	8/23/04 - 9/27/04	1453	6.7	14.5
October 2004 ⁷	9/27/04 - 10/25/04	1504	14.3	11.7
November 2004 ⁷	10/25/04 - 11/23/04	1480	36.42	13.2
December 2004 ^{7,8}	11/23/04 - 12/27/04	1562	132.21	18.6
January 2005 ⁷	12/27/04 - 1/31/05	1264	47.5	18.3
February 2005 ⁹	1/31/05 - 2/28/05	1538	53.2	15.8
March 2005 ⁹	2/28/05 - 4/4/05	931	56.0	9.5
April 2005 ⁹	4/4/05 - 5/2/05	1269	111.7	15.96
May 2005 ⁹	5/2/05 - 6/6/05	1431	319.0	13.20
June 2005 ⁹	6/6/05 - 7/6/05	1126	12	8.16
July 2005 ⁹	7/6/05 - 8/1/05	1575	5.90	16.80
August 2005 ⁹	8/1/05 - 8/29/05	1359	51.26	15.70
Total pounds of VOCs removed from inception to August 2005 =				928.04

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 August 2005 =				928.04
September 2005 ⁹	8/29/05 - 10/3/05	1239	0.47	16.50
October 2005 ⁹	10/3/05 - 10/31/05	1454	0.81	14.60
November 2005 ⁹	10/31/05 - 11/28/05	2266	6.80	0.00
December 2005	11/28/05 - 1/3/06	1166	1.30	11.50
January 2006	1/3/06 - 2/6/06	1679	11.87	13.62
February 2006	2/6/06 - 3/6/06	1465	90.20	16.56
March 2006	3/6/06 - 4/4/06	1475	2.00	22.43
April 2006	4/4/06 - 5/1/06	1465	8.80	13.56
May 2006	5/1/06 - 5/30/06	1263	0.00	11.07
June 2006	5/30/06 - 7/3/06	1994	1.40	18.17
July 2006	7/3/06 - 7/30/06	2010	1.40	13.64
August 2006	7/30/06 - 8/28/06	1296	8.60	9.24
September 2006	8/28/06 - 10/2/06	1384	2.90	12.77
October 2006	10/2/06 - 10/30/06	1262	3.90	8.56
November 2006	10/30/06 - 11/27/06	1152	10.30	8.61
December 2006	11/27/06 - 12/27/06	1210	16.20	9.63
January 2007	12/27/06 - 2/6/07	1406	1.30	14.40
February 2007	2/6/07 - 2/26/07	1017	4.70	7.72
March 2007	2/26/07 - 3/26/07	1693	0.80	12.47
April 2007	3/26/07 - 5/1/07	1665	3.10	15.63
May 2007	5/1/07 - 5/29/07	1666	0.76	11.86
June 2007	5/29/07 - 6/25/07	1478	15.50	9.21
July 2007	6/25/07 - 7/24/07	1268	8.90	8.25
August 2007	7/25/07 - 8/28/07	1429	0.00	10.72
September 2007	8/28/07-10/1/07	1719	2.00	11.54
October 2007	10/1/07-10/30/07	1875	2.00	10.68
November 2007	10/30/07-11/28/07	1296	13.50	6.47
December 2007	11/28/07-1/2/08	1175	0.00	4.27
January 2008	1/2/08-1/28/08	3460	0.00	5.22
February 2008	1/28/08-2/25/08	2947	0.00	11.57
March 2008	2/25/08-3/31/08	1174	0.00	7.52
April 2008	3/31/08-4/28/08	1341	0.00	6.80
May 2008	4/28/08-5/27/08	1471	0.00	6.99
June 2008	5/27/08-6/30/08	1274	0.00	6.95
July 2008	6/30/08-7/29/08	1370	3.10	7.07
August 2008	7/29/08-8/25/08	741	2.80	3.79
September 2008	8/25/08-9/30/08	914	4.70	7.47
October 2008	9/30/08-10/30/08	1377	0.00	7.14
November 2008	10/30/08-12/3/08	2345	3.80	10.56
December 2008	12/3/08-1/6/09	957	4.10	7.63
January 2009	1/6/09-2/2/09	950	11.40	9.24
February 2009	2/2/09-3/5/09	1594	0.80	14.32
March 2009	3/5/09-4/2/09	1046	0.00	10.82
April 2009	4/2/09 - 5/4/09	ND (<10.0)	ND (<1.0)	8.59
May 2009	5/4/2009 - 6/2/2009	957	0.00	7.12
Total pounds of VOCs removed since inception =				1,390.52

NOTES:

- Calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
- Calculations assume that non-detect values = 0 ug/L.
- Total VOCs summations include estimated "J" values.
- Calculations are based on effluent totalizer readings.
- "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
- No samples were collected in September 2003. August 2003 values are used.
- Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
- Treatment system operated by O&M Enterprises from 10/03 to 7/07.
- 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 May 4, 2009:

Pounds of VOCs removed calculated by the following formula:

$$(957 \text{ ug/L} - 0.00 \text{ ug/L}) * (1 \text{ g}/10^6 \text{ ug}) * (1 \text{ lb}/453.5924 \text{ g}) * 891,641 \text{ gallons} * (3.785 \text{ L}/\text{gallon}) = 7.12 \text{ lbs}$$

where 891,641 gallons is the monthly process water volume.

Attachment A
IEG Weekly Inspection Reports
May 2009

Including:

5/4/2009

5/12/09

5/19/09

5/27/09

6/2/09

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

DATE: <u>4-May-09</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: <u>-----</u>	
WEATHER CONDITIONS: <u>Partly cloudy, warm</u>		OUTSIDE TEMPERATURE (°F): <u>64</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below			
<u>PW-6 is OFF due to maintenance problems. When switch is turned to HAND water level lowers to 38 and stays.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>3</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: _____ <u>46</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>3</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>14</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>3</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>5/1/09 Air Stripper Low Air Pressure</u>	
NOTES: <u>PW-7 runs continuously while water level remains at 14.</u>			
INFLUENT FLOW RATE: <u>75</u> gpm		INFLUENT TOTALIZER READING: <u>5,998,674.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>13</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>22</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>7.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi	
BAG FILTER PRESSURES:		Top Bottom Top Bottom	
LEFT: <u>0</u> <u>0</u> psi		RIGHT: <u>5.5</u> <u>0</u> psi	
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>23.5</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>14.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.053</u> in. H ₂ O		DISCHARGE PRESSURE: <u>1.4</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.5</u> psi	
EFFLUENT FLOW RATE: <u>86</u> gpm		EFFLUENT TOTALIZER READING: <u>51,721,942</u> 871460 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (°F): <u>68</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>4.5</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

4-May-09

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	2:00 PM	7.29	5.2	14.6	2939
AIR STRIPPER EFFLUENT:	EFF	2:00 PM	8.49	5.03	14.5	2875

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 by a snowplow.

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

Remarks: Picked up litter outside of Treatment Room.

Other Actions:

AGWAY

SYSTEM VACUUM: -22 in. H₂O AIR PRESSURE: 90 psi

SP-1: <u>0.0</u> scfm	<u>4.0</u> psi	SP-5: <u>0.0</u> scfm	<u>28.5</u> psi
SP-2: <u>7.8</u> scfm	<u>9.0</u> psi	SP-6: <u>1.8</u> scfm	<u>> 30</u> psi
SP-3: <u>0.0</u> scfm	<u>9.5</u> psi	SP-7: <u>0.0</u> scfm	<u>> 30</u> psi
SP-4: <u>0.0</u> scfm	<u>10.0</u> psi	SP-8: <u>0.0</u> scfm	<u>> 30</u> psi

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

Remarks: Construction materials and vehicles are parked on west side of site.

Other Actions:

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

DATE: 12-May-09 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen, D. Iyer OTHER PERSONNEL: E&E, Inc personnel

WEATHER CONDITIONS: Sunny, warm OUTSIDE TEMPERATURE (°F): 60

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

PW-7 is always ON - water level remains at 16.

E & E, Inc personel turned ON PW-6. Despite being ON water level remains at 45.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>9</u> ft	PW-5	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>3</u> ft
PW-2	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-6	ON: <input checked="" type="checkbox"/>	OFF: <input type="checkbox"/>	<u>45</u> ft
PW-3	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: <input type="checkbox"/>	<u>16</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: <input type="checkbox"/>	<u>3</u> ft	PW-8	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft

EQUALIZATION TANK: 4 ft Last Alarm DT/Condition: 5/1/09 Air Stripper Low Air Pressure

NOTES: _____

INFLUENT FLOW RATE: 8 gpm INFLUENT TOTALIZER READING: 6,268,253.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 3 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 5 gallons

SEQUESTERING AGENT FEED RATE: 5.0 ml/min METERING PUMP PRESSURE: 2.5 psi

BAG FILTER PRESSURES:		Top	Bottom		Top	Bottom	
	LEFT:	<u>0</u>	<u>0</u>	psi	RIGHT:	<u>5.5</u>	<u>0</u>

INFLUENT FEED PUMP IN USE: #1 #2 INFLUENT PUMP PRESSURE: 23 psi

AIR STRIPPER BLOWER IN USE: #1 #2 AIR STRIPPER PRESSURE: 17.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.05 in. H₂O DISCHARGE PRESSURE: 1.4 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 EFFLUENT FEED PUMP PRESSURE: 8.5 psi

EFFLUENT FLOW RATE: 86 gpm EFFLUENT TOTALIZER READING: 51,881,329 34710 gallons

ARE BUILDING HEATERS IN USE? YES: NO: INSIDE TEMPERATURE (°F): 63

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

12-May-09

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 was damaged by snowplow. Added gravel around MW to level cover of damaged MW.

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

Remarks: E&E, Inc technicians are sampling wells. E&E, Inc. personnel lost pencil bailer and string down RW-1.

Other Actions: Switched Redux pickup to new drum.

Ordered filter bags # PE 75 from Le Sac Corp.

AGWAY

SYSTEM VACUUM: <u>-22</u> in. H ₂ O				AIR PRESSURE: <u>120</u> psi			
SP-1:	<u>0.0</u>	scfm	<u>3.5</u> psi	SP-5:	<u>0.0</u>	scfm	<u>28.5</u> psi
SP-2:	<u>7.5</u>	scfm	<u>7.5</u> psi	SP-6:	<u>2.0</u>	scfm	<u>> 30</u> psi
SP-3:	<u>0.0</u>	scfm	<u>8.0</u> psi	SP-7:	<u>0.0</u>	scfm	<u>> 30</u> psi
SP-4:	<u>0.0</u>	scfm	<u>8.5</u> psi	SP-8:	<u>0.0</u>	scfm	<u>> 30</u> psi

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

Remarks: Construction vehicles parked over group PW-3. Vehicles and materials parked on site. I told two more workers not to drive over well groups.

Other Actions: SVE vacuum drum is dry.

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

DATE: 19-May-09 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Sunny, warm OUTSIDE TEMPERATURE (° F): 60

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-6 and PW-7 are OFF due to maintenance problems.
When PW-7 is turned to HAND, water level will drop to 15 but go no lower.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</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>58</u> ft
PW-3	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>4</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>17</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 5/1/09 Air Stripper Low Air Pressure

NOTES: When PW-6 is turned to HAND, water level will drop to 51 but will go no lower.

INFLUENT FLOW RATE: 18 gpm INFLUENT TOTALIZER READING: 6,480,710.0 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: 2.5 psi

BAG FILTER PRESSURES:	LEFT:	Top	Bottom	psi	RIGHT:	Top	Bottom	psi
		<u>0</u>	<u>0</u>			<u>5.5</u>	<u>0</u>	

INFLUENT FEED PUMP IN USE: #1 _____ #2 INFLUENT PUMP PRESSURE: 23 psi

AIR STRIPPER BLOWER IN USE: #1 _____ #2 AIR STRIPPER PRESSURE: 17.5 in. H₂O
 AIR STRIPPER DIFFERENTIAL PRESSURE: 0.052 in. H₂O DISCHARGE PRESSURE: 1.4 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 _____ EFFLUENT FEED PUMP PRESSURE: 7.0 psi
 EFFLUENT FLOW RATE: 88 gpm EFFLUENT TOTALIZER READING: 52,005,463 161800 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (° F): 67

IS SUMP PUMP IN USE: YES: NO: _____ ARE ANY LEAKS PRESENT? YES: _____ NO:
 WATER LEVEL IN SUMP: 5.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

19-May-09

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 from snowplow. Several MW cover bolts are missing since E&E, Inc technicians did sampling.

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

Remarks: _____

Other Actions: _____

AGWAY

SYSTEM VACUUM: <u> -21 </u> in. H ₂ O				AIR PRESSURE: <u> 120 </u> psi			
SP-1:	<u> 0.0 </u>	scfm	<u> 3.0 </u> psi	SP-5:	<u> 0.0 </u>	scfm	<u> 28.5 </u> psi
SP-2:	<u> > 10 </u>	scfm	<u> 14.5 </u> psi	SP-6:	<u> 2.0 </u>	scfm	<u> > 30 </u> psi
SP-3:	<u> 1.1 </u>	scfm	<u> 16.0 </u> psi	SP-7:	<u> 0.0 </u>	scfm	<u> > 30 </u> psi
SP-4:	<u> 0.0 </u>	scfm	<u> 17.0 </u> psi	SP-8:	<u> 0.0 </u>	scfm	<u> > 30 </u> psi

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

Remarks: Construction vehicles and equipment parked on south end of site. Tandem Dump Truck loaded with soil drives over PW-2 and PZ-2A.

Other Actions: SVE vacuum barrel is dry.

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

DATE: <u>27-May-09</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Partly cloudy, warm</u>		OUTSIDE TEMPERATURE (° F): <u>65</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below			
<u>PW-6 and PW-7 are OFF due to maintenance problems.</u>			
<u>When PW-6 is switched to HAND, water level decreases to a minimum of 50.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>11</u> ft	PW-5 ON: <input checked="" type="checkbox"/> OFF: _____ <u>3</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: _____ <u>57</u> ft
PW-3	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>4</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>17</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>5</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>5/1/09 Air Stripper Low Air Pressure</u>	
NOTES: <u>When PW-7 is switched to HAND, water level decreases to a minimum of 14.</u>			
INFLUENT FLOW RATE: <u>72</u> gpm		INFLUENT TOTALIZER READING: <u>6,710,813.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>21</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>35.7</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>7.0</u> ml/min		METERING PUMP PRESSURE: <u>2.0</u> psi	
BAG FILTER PRESSURES:			
	Top	Bottom	
LEFT:	<u>0</u>	<u>0</u> psi	RIGHT: <u>5</u> <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>23</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>16.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.052</u> in. H ₂ O		DISCHARGE PRESSURE: <u>1.4</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>8.0</u> psi	
EFFLUENT FLOW RATE: <u>84</u> gpm		EFFLUENT TOTALIZER READING: <u>52,137,527</u> 297150 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>71</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>4.5</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

27-May-09

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 from snowplow.

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

Remarks: _____

Other Actions: Replaced MW cover bolts that were lost during May sampling.

AGWAY

SYSTEM VACUUM: <u>-21</u> in. H ₂ O				AIR PRESSURE: <u>120</u> psi					
SP-1:	<u>0.0</u>	scfm	<u>3.5</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>27.5</u>	psi
SP-2:	<u>7.3</u>	scfm	<u>7.5</u>	psi	SP-6:	<u>1.7</u>	scfm	<u>29.0</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>8.0</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>8.5</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>> 30</u>	psi

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

Remarks: Construction equipment and vehicles parked around site.

Water, gas, and sewer lines are marked along Whaley Ave.

Other Actions: Pulled plants around base of shed to reduce moisture.

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

DATE: <u>2-Jun-09</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Cloudy, warm</u>		OUTSIDE TEMPERATURE (° F): <u>58</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below <u>PW-6 and PW-7 are OFF due to maintenance problems. PW-6 when turned ON will see a reduction in the water level to 51 but will not go any lower. PW-7 when turned ON will see a reduction in the water level to 14 but will not go any lower.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>9</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: _____ <u>58</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>17</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>5</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>5/1/09 Air Stripper Low Air Pressure</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>72</u> gpm		INFLUENT TOTALIZER READING: <u>6,890,315.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>17</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>29</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>7.0</u> ml/min		METERING PUMP PRESSURE: <u>2.0</u> psi	
BAG FILTER PRESSURES:			
LEFT:		Top Bottom	Top Bottom
LEFT: <u>0</u> <u>0</u> psi		RIGHT: <u>5.5</u> <u>0</u> psi	
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>23</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>17.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.05</u> in. H ₂ O		DISCHARGE PRESSURE: <u>1.3</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.0</u> psi	
EFFLUENT FLOW RATE: <u>88</u> gpm		EFFLUENT TOTALIZER READING: <u>52,242,636</u> 404760 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>71</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>4.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

2-Jun-09

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	1:30 PM	7.28	4.2	16.4	2950
AIR STRIPPER EFFLUENT:	EFF	1:30 PM	8.4	4.32	15.5	2799

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 from snowplow.

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

Remarks: Increased Redux pump slightly to : 2.20; Right 1.0.

The north half of Main St is being excavated in front of both sites to 1 Yard deep in preparation for new road surface.

Other Actions: Have (1) small sampling cooler.

Called NYSDEC (David Syzmanski) to report excavation on Main Street.

AGWAY

SYSTEM VACUUM: <u>-21</u> in. H ₂ O				AIR PRESSURE: <u>120</u> psi					
SP-1:	<u>0.0</u>	scfm	<u>4.0</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>27.5</u>	psi
SP-2:	<u>7.6</u>	scfm	<u>7.5</u>	psi	SP-6:	<u>1.6</u>	scfm	<u>29.5</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>8.0</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>8.5</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>> 30</u>	psi

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

Remarks: Construction equipment and vehicles parked throughout the site

Other Actions: SVE vacuum drum is dry.

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

OM&M: PIEZOMETER WATER LEVEL LOG

Date: 26-May-09

Measurements taken by: R. Allen

RW-1	<u>22.40</u> ft	Comments:	
PZ-1A	<u>11.36</u> ft	Comments:	
PZ-1B	<u>11.08</u> ft	Comments:	
PZ-1C	<u>12.25</u> ft	Comments:	
PZ-1D	<u>12.38</u> ft	Comments:	
PW-2	<u>19.10</u> ft	Comments:	
PZ-2A	<u>10.99</u> ft	Comments:	
PZ-2B	<u>11.29</u> ft	Comments:	
PZ-2C	<u>10.84</u> ft	Comments:	
MW-7	<u>11.30</u> ft	Comments:	Substitute for 2D
PW-3	<u>20.90</u> ft	Comments:	
PZ-3A	<u>11.45</u> ft	Comments:	
PZ-3B	<u>11.52</u> ft	Comments:	
PZ-3C	<u>11.97</u> ft	Comments:	
PZ-3D	<u>11.51</u> ft	Comments:	
PW-4	<u>23.10</u> ft	Comments:	
PZ-4A	<u>11.69</u> ft	Comments:	
PZ-4B	<u>10.99</u> ft	Comments:	
PZ-4C	<u>---</u> ft	Comments:	MW damaged
PZ-4D	<u>10.54</u> ft	Comments:	

PW-5	<u>14.20</u> ft	Comments:	
PZ-5A	<u>10.73</u> ft	Comments:	
PZ-5B	<u>10.81</u> ft	Comments:	
PZ-5C	<u>10.39</u> ft	Comments:	
PZ-5D	<u>11.20</u> ft	Comments:	
PW-6	<u>11.40</u> ft	Comments:	
PZ-6A	<u>11.56</u> ft	Comments:	
PZ-6B	<u>11.40</u> ft	Comments:	
PZ-6C	<u>11.69</u> ft	Comments:	
PZ-6D	<u>11.32</u> ft	Comments:	Shown as RW-2 on map
PW-7	<u>9.86</u> ft	Comments:	
MPI-6S	<u>11.21</u> ft	Comments:	
PZ-7B	<u>11.23</u> ft	Comments:	
OW-B	<u>11.19</u> ft	Comments:	
PZ-7D	<u>10.86</u> ft	Comments:	
PW-8	<u>20.90</u> ft	Comments:	
PZ-8A	<u>8.19</u> ft	Comments:	
PZ-8B	<u>8.09</u> ft	Comments:	
PZ-8C	<u>7.71</u> ft	Comments:	
PZ-8D	<u>8.00</u> ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS			
RW-1 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-2 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-3 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-4 pump on?	<u> √ </u> Yes	<u> </u> No	
PW-5 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-6 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-7 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-8 pump on?	<u> </u> Yes	<u> √ </u> No	

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 5/2009

DATE	ACTIVITY
1-May	Take delivery of Redux. Remove vent cover in Treatment Room. Change bag filters. Take damaged basket for repair. Office work.
4-May	OM&M Weekly Inspection and sampling.
5-May	OM&M office work.
11-May	Respond to library call about damaged MW
12-May	OM&M Weekly Inspection. Meeting with E&E, Inc.
13-May	UM Office Work.
14-May	Pick up repaired filter basket
19-May	OM&M Weekly Inspection and office work.
26-May	Piezometer Readings
27-May	OM&M Weekly Inspection and office work.

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

as of 5/31/09

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Replace SVE Vacuum Drum	Present Vacuum Drum inside Agway Shed is corroded. Replace drum.	To be ordered
AS / SVE System Evaluation	Agway Shed - test and 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 the compressor is a 1992 model. Compressor pump should be serviced which includes a valve kit. The belts should also be adjusted.	in progress
Pump Out all System Wells	All system Wells operational - Inspections of well pumps revealed that most had restrictive sediment deposits in the well pumps and the flexible pipes. Working wells were flushed, aerated and pumped out to remove gravel, sediment and other matter.	in progress
Level PW-4 Well and Box	Asphalt around PW-4 and its Underground Enclosure has sunk, leaving these structures 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
Replace all Transducer Tubes with Aneroid Bellows	Transducer tubes are susceptible to water damage. Replace all tubes with Aneroid Bellows as recommended by Electrical Contractor.	in progress
Get spare O-rings for Pitless Adapters	Some of the Pitless Adapter O-rings are wearing out. It would be less costly to replace the O-ring on the adapter than to replace the entire adapter. Find and purchase (10) spare O-rings	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
PW-3 pitless adapter not sealing well	Drops of water squirt upward from pitless adapter when motor turns on. Inspect and reseal pitless adapter	in progress
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.	in progress
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.	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
Insulate Overhead Door	Large Metal Overhead Door in Treatment Room conducts cold during low temperatures outside. Door should be insulated to save heating costs.	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
Repair Condensate Removal Valve (CRV)	CRV was stuck open, allowing compressor to run continuously. Disassembled and cleaned CRV. Improved mounting of unit to floor to avoid operational motion damage.	Feb-09
Clean Air Stripper	Cleaned Air Stripper trays. Assembled industrial brushes and power sprayer to clean trays through access ports. This cleaning method may prove cost effective by reducing the frequency of tear downs.	Mar-09
Modify Effluent Pipe	Installed PVC pipe unions on the effluent pipe adjacent to the Air Stripper to facilitate cleaning of the trays. Remove defective meter on pipe.	Mar-09
Repair Bag Filter Basket	The newest bag filter basket was found to have a broken bottom during filter change. Have basket repaired with added braces at the bottom to strengthen basket.	Apr-09
Repair Compressor Start Cycle	Compressor in Agway Shed will not cycle ON when air pressure is low. Trouble shoot and make necessary repairs.	Apr-09
Repair PW-6	PW-6 does not turn off and water level remains high in well even when switch is turned to HAND. Pull pump and transducer and inspect.	in progress
Repair PW-7	PW-7 does not turn off and water level remains high in well even when switch is turned to HAND. Pull pump and transducer and inspect.	in progress
Repair Bag Filter Basket	A previously repaired bag filter basket was found to have a broken bottom during filter change. Have basket repaired with added braces at the bottom to strengthen basket. Differential Pressure > 15 = problems with baskets.	May-09

Mr. C's CLEANERS OM&M
SUMMARY OF WATER PUMP MAINTENANCE BY IEG

as of May 09

ID	CLEAN & INSPECT PUMP	REPLACE PUMP	REPAIR PUMP	CLEAN & INSPECT TRANSDUCER	REPLACE TRANSDUCER	REPAIR TRANSDUCER	PUMP OUT WELL	CLEAN OUT & INSPECT ELECTRICAL BOX	ELECTRICAL BOX REPAIR
RW - 1	Jan-08	Feb-08	Nov-08	Jan 08, Nov 08				Jun-08	Jul-08
PW - 2	Jun-08	Jul-08		Jun-08			Jul-08	Jun-08	
PW - 3	Jun-08	Jul-08		Jun-08			Jul-08	Jun-08	
PW - 4	Dec 07, May 08	Dec-07		Dec-07	Mar 08, Sep 08	Sep-08	Jul-08	May 08, Sep 08	Mar-08
PW - 5	May-08	Jul-08		Jun 08, Aug 08	Sep-08		Jul-08	May 08, Aug 08	Aug-08
PW - 6	Jun-08	Jul-08		Jun 08, Apr 09		Jun-08	Jul-08	Jun-08	Jul-08
PW - 7	Nov 07, Jun 08	Nov-07		Jun-08		Jun-08	Jul-08	Jun-08	Jun-08
PW - 8	Jun-08	Jul-08		Jun-08			Jul-08	May-08	May-08

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2009

as of May 09

ID	CLEANED & INSPECTED PUMP	NEEDS NEW PUMP	NEEDS WELL CLEAN-OUT	NEEDS NEW TRANSDUCER	NEEDS ANEROID BELLOWS	SUMP CLOGGED	NEEDS REPAIR
RW - 1	YES	NO	YES	NO	YES	NO	YES - bolts
PW - 2	YES	DONE	DONE	NO	YES	NO	NO
PW - 3	YES	DONE	DONE	NO	YES	NO	NO
PW - 4	YES	YES - replaced with PW-7	DONE	DONE	DONE	DONE	YES - Asphalt patch
PW - 5	YES	DONE	DONE	DONE, problem 1/09	DONE	NO	NO
PW - 6	YES	DONE, PROBLEM 4/09	DONE	NO	DONE	NO	DONE
PW - 7	YES	PROBLEM 5/09	DONE	NO	DONE	NO	NO
PW - 8	YES	DONE	DONE	NO	YES	NO	NO

Attachment B
Analytical Report from
Mitkem Laboratories

Analytical Data Package Work Order ID: H0769
Sampled: May 4, 2009



A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

May 27, 2009

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

RE: Client Project: Mr. C's Dry Cleaners Site (Compliance)
Lab Work Order #: H0769

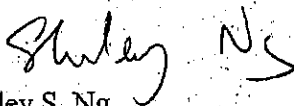
Dear Mr. Steffan:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

If you have any questions regarding this report, please don't hesitate to call me.

We appreciate your business.

Sincerely,


Shirley S. Ng
Project Manager

Mitkem Laboratories

New York State Department of Environmental Conservation Sample Identification and Analytical Requirements Summary

Project Name : Mr. C's Dry Cleaning – 002700.DC13.02.01.01

SDG : H0769

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
INFLUENT	H0769-01	SW8260_W			SM2340_W	SEE DATA
EFFLUENT	H0769-02	SW8260_W			SM2340_W	SEE DATA

Mitkem Laboratories

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary MSVOA

Project Name : Mr. C's Dry Cleaning - 002700.DC13.02.01.01

SDG : H0769

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
H0769-01C	AQ	5/4/2009	5/5/2009	NA	5/5/2009
H0769-01CDL	AQ	5/4/2009	5/5/2009	NA	5/6/2009
H0769-02C	AQ	5/4/2009	5/5/2009	NA	5/5/2009

Mitkem Laboratories

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary MSVOA

Project Name : Mr. C's Dry Cleaning – 002700.DC13.02.01.01

SDG : H0769

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
H0769-01C	AQ	SW8260_W	NA	LOW	1
H0769-01CDL	AQ	SW8260_W	NA	LOW	8
H0769-02C	AQ	SW8260_W	NA	LOW	1

Mitkem Laboratories

New York State Department of Environmental Conservation Sample Preparation and Analysis Summary ME

Project Name : Mr. C's Dry Cleaning -- 002700.DC13.02.01.01

SDG : H0769

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SM2340_W				
H0769-01B	AQ	SM2340_W	5/5/2009	5/8/2009
H0769-02B	AQ	SM2340_W	5/5/2009	5/8/2009

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

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

Mitkem Work Order ID: H0769

May 27, 2009

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 May 5, 2009. 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:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

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 instruments V1: 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 were within the QC limits with the exception of acetone in VIDLCS. Replicate RPDs were within the QC limits with the exception of dichlorodifluoromethane in VIELCS and VIELCSD.

Sample analysis: due to high concentration of target analytes, sample INFLUENT was re-analyzed at 8x dilution. No other unusual observation was made for this analysis.

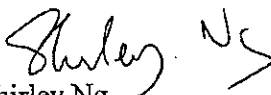
2. Wet Chemistry Analyses:

Duplicate analysis: duplicate analysis was performed on sample EFFLUENT for pH analysis. Replicate RPDs was within the QC limits.

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.


Shirley Ng
Project Manager
05/27/09

Sample Transmittal Documentation

Mirkem Laboratories

27/May/09 16:51

WorkOrder: H0769

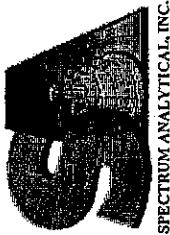
Client ID: ENE
 Project: Mr. C's Dry Cleaning
 Location: 002700.DC13.02.01.01
 Case: HC Due: 05/22/09 Report Level: ASP-A
 SDG: Fax Due: EDD: ENE
 PO: 002700.DC13.02

Comments: 1 ppb ICAL for VOA. Run Influent sample by 10 X dilution, low result in effluent expected. report thru LIMS.

Lab Samp ID	Client Sample ID	Matrix	Collection Date	Date Recv'd	Test Code	Lab Test Comments	HS	HT	MS	SEL	Storage
H0769-01A	INFLUENT	Aqueous	05/04/2009 14:30	05/05/2009	SM4500_H+		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	O4
H0769-01B	INFLUENT	Aqueous	05/04/2009 14:30	05/05/2009	SM2340_W		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MI
H0769-01C	INFLUENT	Aqueous	05/04/2009 14:30	05/05/2009	SW8260_W	OLM_VOA, 1 ppb ICAL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOA
H0769-02A	EFFLUENT	Aqueous	05/04/2009 14:30	05/05/2009	SM4500_H+		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	O4
H0769-02B	EFFLUENT	Aqueous	05/04/2009 14:30	05/05/2009	SM2340_W		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MI
H0769-02C	EFFLUENT	Aqueous	05/04/2009 14:30	05/05/2009	SW8260_W	OLM_VOA, 1 ppb ICAL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOA

SHS = Sample logged in but all tests have been placed on hold
 SHT = Sample/Test logged in but test has been placed on hold

Lab Client Rep: Shirley S Ng



SPECTRUM ANALYTICAL, INC.
HEALTH 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 WC
368 Pleasantview Dr
Lancaster, NY 14086

Project Mgr.: Mike Steffan

Invoice To: E & E, Inc

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

P.O. No.: _____ RQN: _____

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

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

Containers: _____
 Analyses: _____
 QA Reporting Notes: _____
 (check if needed)

Provide MA DEP MCP CAM Report
 Provide CT DEP RCP Report

QA/QC Reporting Level
 Standard No QC
 Other _____

State specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis
H0769-01	INFLUENT	5/1/09	2:30 PM	G	GW	-	1				pH
H0769-02	INFLUENT	5/1/09	2:30 PM	G	GW	4	1				hardness
H0769-03	INFLUENT		2:30 PM	G	GW	2					VOC
H0769-04	EFFLUENT	5/1/09	2:30 PM	G	GW	-	1				
H0769-05	EFFLUENT		2:30 PM	G	GW	4	1				
H0769-06	EFFLUENT	5/1/09	2:30 PM	G	GW	2	2				

Fax results when available to (716) 662-2118
 E-mail to msteffan@ene.com

EDD Format PDF

Condition of Receipt: Ambient Cold Other _____

Relinquished by: Richard C. Allen, Jr
 Received by: Veronica Gardner
 Date: 5/5/09 Time: 10:00



* 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.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H0769-01C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6464.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/05/2009
 % Moisture: not dec. Date Analyzed: 05/05/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		1.0	U
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone		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		1.2	
1634-04-4	Methyl tert-butyl ether		7.4	
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		15	
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		43	
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		890	E
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

SW846

6009

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

EPA SAMPLE NO.
INFLUENT

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H0769-01C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6464.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/05/2009
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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

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

EPA SAMPLE NO.
INFLUENTDL

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H0769-01CDL
 Sample wt/vol: ^{5 mL} ~~#Error~~ (g/mL) ML Lab File ID: V1K6488.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/05/2009
 % Moisture: not dec. Date Analyzed: 05/06/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 8.0
 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		8.0	U
74-87-3	Chloromethane		8.0	U
75-01-4	Vinyl chloride		8.0	U
74-83-9	Bromomethane		8.0	U
75-00-3	Chloroethane		8.0	U
75-69-4	Trichlorofluoromethane		8.0	U
75-35-4	1,1-Dichloroethene		8.0	U
67-64-1	Acetone		40	U
75-15-0	Carbon disulfide		8.0	U
75-09-2	Methylene chloride		8.0	U
156-60-5	trans-1,2-Dichloroethene		8.0	U
1634-04-4	Methyl tert-butyl ether		8.0	U
75-34-3	1,1-Dichloroethane		8.0	U
78-93-3	2-Butanone		40	U
156-59-2	cis-1,2-Dichloroethene		12	D
67-66-3	Chloroform		8.0	U
71-55-6	1,1,1-Trichloroethane		8.0	U
56-23-5	Carbon tetrachloride		8.0	U
107-06-2	1,2-Dichloroethane		8.0	U
71-43-2	Benzene		8.0	U
79-01-6	Trichloroethene		31	D
78-87-5	1,2-Dichloropropane		8.0	U
75-27-4	Bromodichloromethane		8.0	U
10061-01-5	cis-1,3-Dichloropropene		8.0	U
108-10-1	4-Methyl-2-pentanone		40	U
108-88-3	Toluene		8.0	U
10061-02-6	trans-1,3-Dichloropropene		8.0	U
79-00-5	1,1,2-Trichloroethane		8.0	U
127-18-4	Tetrachloroethene		840	D
591-78-6	2-Hexanone		40	U
124-48-1	Dibromochloromethane		8.0	U
106-93-4	1,2-Dibromoethane		8.0	U
108-90-7	Chlorobenzene		8.0	U
100-41-4	Ethylbenzene		8.0	U
1330-20-7	Xylene (Total)		8.0	U

SW846

0011

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

EPA SAMPLE NO.
INFLUENTDL

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H0769-01CDL
 Sample wt/vol: ~~#Error~~ 5 ml (g/mL) ML Lab File ID: V1K6488.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/05/2009
 % Moisture: not dec. Date Analyzed: 05/06/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 8.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
100-42-5	Styrene		8.0 U
75-25-2	Bromoform		8.0 U
98-82-8	Isopropylbenzene		8.0 U
79-34-5	1,1,2,2-Tetrachloroethane		8.0 U
541-73-1	1,3-Dichlorobenzene		8.0 U
106-46-7	1,4-Dichlorobenzene		8.0 U
95-50-1	1,2-Dichlorobenzene		8.0 U
96-12-8	1,2-Dibromo-3-chloropropane		8.0 U
120-82-1	1,2,4-Trichlorobenzene		8.0 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		8.0 U
110-82-7	Cyclohexane		8.0 U
79-20-9	Methyl acetate		8.0 U
108-87-2	Methylcyclohexane		8.0 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.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H0769-02C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6458.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/05/2009
 % Moisture: not dec. Date Analyzed: 05/05/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		1.0	U
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone		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		1.0	U
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

SW846

0013

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

EPA SAMPLE NO.
EFFLUENT

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H0769-02C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6458.D
 Level: (TRACE/LOW/MED) LOW Date Received: 05/05/2009
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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

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

EPA SAMPLE NO.

VIDLCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-43406
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6445.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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		69	
74-87-3	Chloromethane		52	
75-01-4	Vinyl chloride		61	
74-83-9	Bromomethane		67	
75-00-3	Chloroethane		60	
75-69-4	Trichlorofluoromethane		53	
75-35-4	1,1-Dichloroethene		60	
67-64-1	Acetone		87	
75-15-0	Carbon disulfide		51	
75-09-2	Methylene chloride		55	
156-60-5	trans-1,2-Dichloroethene		51	
1634-04-4	Methyl tert-butyl ether		49	
75-34-3	1,1-Dichloroethane		55	
78-93-3	2-Butanone		64	
156-59-2	cis-1,2-Dichloroethene		53	
67-66-3	Chloroform		51	
71-55-6	1,1,1-Trichloroethane		54	
56-23-5	Carbon tetrachloride		51	
107-06-2	1,2-Dichloroethane		51	
71-43-2	Benzene		50	
79-01-6	Trichloroethene		55	
78-87-5	1,2-Dichloropropane		55	
75-27-4	Bromodichloromethane		51	
10061-01-5	cis-1,3-Dichloropropene		50	
108-10-1	4-Methyl-2-pentanone		44	
108-88-3	Toluene		50	
10061-02-6	trans-1,3-Dichloropropene		54	
79-00-5	1,1,2-Trichloroethane		54	
127-18-4	Tetrachloroethene		53	
591-78-6	2-Hexanone		51	
124-48-1	Dibromochloromethane		50	
106-93-4	1,2-Dibromoethane		52	
108-90-7	Chlorobenzene		49	
100-41-4	Ethylbenzene		51	
1330-20-7	Xylene (Total)		150	

SW846

0015

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

EPA SAMPLE NO.

VIDLCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-43406
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6445.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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		50	
75-25-2	Bromoform		48	
98-82-8	Isopropylbenzene		50	
79-34-5	1,1,2,2-Tetrachloroethane		45	
541-73-1	1,3-Dichlorobenzene		49	
106-46-7	1,4-Dichlorobenzene		49	
95-50-1	1,2-Dichlorobenzene		48	
96-12-8	1,2-Dibromo-3-chloropropane		41	
120-82-1	1,2,4-Trichlorobenzene		45	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		56	
110-82-7	Cyclohexane		58	
79-20-9	Methyl acetate		44	
108-87-2	Methylcyclohexane		61	

SW846

0016

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

EPA SAMPLE NO.

VIDLCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-43406
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6446.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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		56	
74-87-3	Chloromethane		51	
75-01-4	Vinyl chloride		58	
74-83-9	Bromomethane		58	
75-00-3	Chloroethane		63	
75-69-4	Trichlorofluoromethane		46	
75-35-4	1,1-Dichloroethene		50	
67-64-1	Acetone		62	
75-15-0	Carbon disulfide		46	
75-09-2	Methylene chloride		53	
156-60-5	trans-1,2-Dichloroethene		49	
1634-04-4	Methyl tert-butyl ether		46	
75-34-3	1,1-Dichloroethane		53	
78-93-3	2-Butanone		50	
156-59-2	cis-1,2-Dichloroethene		50	
67-66-3	Chloroform		48	
71-55-6	1,1,1-Trichloroethane		51	
56-23-5	Carbon tetrachloride		48	
107-06-2	1,2-Dichloroethane		47	
71-43-2	Benzene		46	
79-01-6	Trichloroethene		52	
78-87-5	1,2-Dichloropropane		51	
75-27-4	Bromodichloromethane		49	
10061-01-5	cis-1,3-Dichloropropene		47	
108-10-1	4-Methyl-2-pentanone		43	
108-88-3	Toluene		47	
10061-02-6	trans-1,3-Dichloropropene		48	
79-00-5	1,1,2-Trichloroethane		48	
127-18-4	Tetrachloroethene		49	
591-78-6	2-Hexanone		37	
124-48-1	Dibromochloromethane		45	
106-93-4	1,2-Dibromoethane		48	
108-90-7	Chlorobenzene		46	
100-41-4	Ethylbenzene		47	
1330-20-7	Xylene (Total)		140	

SW846

0017

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

EPA SAMPLE NO.

VIDLCSD

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-43406
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6446.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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		47	
75-25-2	Bromoform		43	
98-82-8	Isopropylbenzene		48	
79-34-5	1,1,2,2-Tetrachloroethane		42	
541-73-1	1,3-Dichlorobenzene		46	
106-46-7	1,4-Dichlorobenzene		46	
95-50-1	1,2-Dichlorobenzene		45	
96-12-8	1,2-Dibromo-3-chloropropane		39	
120-82-1	1,2,4-Trichlorobenzene		45	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		56	
110-82-7	Cyclohexane		55	
79-20-9	Methyl acetate		44	
108-87-2	Methylcyclohexane		54	

SW846

0018

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

EPA SAMPLE NO.

VIELCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-43424
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6484.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/06/2009
 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		63	
74-87-3	Chloromethane		48	
75-01-4	Vinyl chloride		52	
74-83-9	Bromomethane		63	
75-00-3	Chloroethane		49	
75-69-4	Trichlorofluoromethane		52	
75-35-4	1,1-Dichloroethene		59	
67-64-1	Acetone		66	
75-15-0	Carbon disulfide		46	
75-09-2	Methylene chloride		59	
156-60-5	trans-1,2-Dichloroethene		45	
1634-04-4	Methyl tert-butyl ether		51	
75-34-3	1,1-Dichloroethane		52	
78-93-3	2-Butanone		67	
156-59-2	cis-1,2-Dichloroethene		49	
67-66-3	Chloroform		46	
71-55-6	1,1,1-Trichloroethane		46	
56-23-5	Carbon tetrachloride		47	
107-06-2	1,2-Dichloroethane		49	
71-43-2	Benzene		45	
79-01-6	Trichloroethene		50	
78-87-5	1,2-Dichloropropane		51	
75-27-4	Bromodichloromethane		53	
10061-01-5	cis-1,3-Dichloropropene		50	
108-10-1	4-Methyl-2-pentanone		52	
108-88-3	Toluene		45	
10061-02-6	trans-1,3-Dichloropropene		54	
79-00-5	1,1,2-Trichloroethane		55	
127-18-4	Tetrachloroethene		46	
591-78-6	2-Hexanone		46	
124-48-1	Dibromochloromethane		52	
106-93-4	1,2-Dibromoethane		55	
108-90-7	Chlorobenzene		47	
100-41-4	Ethylbenzene		46	
1330-20-7	Xylene (Total)		140	

SW846

0019

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

EPA SAMPLE NO.

V1ELCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-43424
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6484.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/06/2009
 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		47	
75-25-2	Bromoform		55	
98-82-8	Isopropylbenzene		44	
79-34-5	1,1,2,2-Tetrachloroethane		47	
541-73-1	1,3-Dichlorobenzene		44	
106-46-7	1,4-Dichlorobenzene		42	
95-50-1	1,2-Dichlorobenzene		43	
96-12-8	1,2-Dibromo-3-chloropropane		48	
120-82-1	1,2,4-Trichlorobenzene		42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		49	
110-82-7	Cyclohexane		44	
79-20-9	Methyl acetate		51	
108-87-2	Methylcyclohexane		40	

SW846

0020

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

EPA SAMPLE NO.

V1ELCSD

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-43424
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6485.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/06/2009
 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		42	
74-87-3	Chloromethane		51	
75-01-4	Vinyl chloride		51	
74-83-9	Bromomethane		62	
75-00-3	Chloroethane		58	
75-69-4	Trichlorofluoromethane		50	
75-35-4	1,1-Dichloroethene		60	
67-64-1	Acetone		61	
75-15-0	Carbon disulfide		46	
75-09-2	Methylene chloride		58	
156-60-5	trans-1,2-Dichloroethene		49	
1634-04-4	Methyl tert-butyl ether		51	
75-34-3	1,1-Dichloroethane		54	
78-93-3	2-Butanone		58	
156-59-2	cis-1,2-Dichloroethene		51	
67-66-3	Chloroform		50	
71-55-6	1,1,1-Trichloroethane		52	
56-23-5	Carbon tetrachloride		49	
107-06-2	1,2-Dichloroethane		52	
71-43-2	Benzene		48	
79-01-6	Trichloroethene		52	
78-87-5	1,2-Dichloropropane		54	
75-27-4	Bromodichloromethane		54	
10061-01-5	cis-1,3-Dichloropropene		52	
108-10-1	4-Methyl-2-pentanone		48	
108-88-3	Toluene		48	
10061-02-6	trans-1,3-Dichloropropene		55	
79-00-5	1,1,2-Trichloroethane		55	
127-18-4	Tetrachloroethene		47	
591-78-6	2-Hexanone		40	
124-48-1	Dibromochloromethane		52	
106-93-4	1,2-Dibromoethane		53	
108-90-7	Chlorobenzene		48	
100-41-4	Ethylbenzene		47	
1330-20-7	Xylene (Total)		140	

SW846

0021

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

EPA SAMPLE NO.

V1ELCSD

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-43424
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6485.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/06/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
100-42-5	Styrene		47
75-25-2	Bromoform		51
98-82-8	Isopropylbenzene		46
79-34-5	1,1,2,2-Tetrachloroethane		48
541-73-1	1,3-Dichlorobenzene		46
106-46-7	1,4-Dichlorobenzene		43
95-50-1	1,2-Dichlorobenzene		46
96-12-8	1,2-Dibromo-3-chloropropane		45
120-82-1	1,2,4-Trichlorobenzene		45
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		45
110-82-7	Cyclohexane		49
79-20-9	Methyl acetate		48
108-87-2	Methylcyclohexane		48

SW846

0022

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES

Contract: _____

Lab Code: MITKEM

Case No.: H0769

Mod. Ref No.: _____

SDG No.: SH0769

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	VBLK1D	104	95	99	94				0
02	V1DLCS	106	100	98	96				0
03	V1DLCS D	103	94	99	96				0
04	EFFLUENT	101	102	99	90				0
05	INFLUENT	110	99	95	89				0
06	VBLK1E	105	99	99	91				0
07	V1ELCS	101	105	98	100				0
08	V1ELCS D	105	106	99	96				0
09	INFLUENTDL	106	95	98	91				0

VDMC1 (DBFM) Dibromofluoromethane
VDMC2 (DCE) = 1,2-Dichloroethane-d4
VDMC3 (TOL) = Toluene-d8
VDMC4 (BFB) = Bromofluorobenzene

QC LIMITS

(85-115)
(70-120)
(85-120)
(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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

EPA SAMPLE NO.

VBLK1D

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-43406
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6444.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/05/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		1.0	U
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone		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		1.0	U
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

SW846

0024

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

EPA SAMPLE NO.

VBLK1D

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-43406
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6444.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/05/2009
 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

SW846

0025

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

EPA SAMPLE NO.

VBLK1E

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-43424
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K6483.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/06/2009
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
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 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		1.0 U
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

SW846

0026

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

EPA SAMPLE NO.

VBLK1E

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-43424
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: VIK6483.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 05/06/2009
 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

SW846

0027

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE RECOVERY

EPA SAMPLE NO.

VIDLCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Lab Sample ID: LCS-43406 LCS Lot No.: _____
 Date Extracted: 05/05/2009 Date Analyzed (1): 05/05/2009

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	68.7540	138		30 - 155
Chloromethane	50.0000	0.0000	51.7013	103		40 - 125
Vinyl chloride	50.0000	0.0000	60.8143	122		50 - 145
Bromomethane	50.0000	0.0000	66.7695	134		30 - 145
Chloroethane	50.0000	0.0000	60.0544	120		60 - 135
Trichlorofluoromethane	50.0000	0.0000	53.2338	106		60 - 145
1,1-Dichloroethene	50.0000	0.0000	60.1451	120		70 - 130
Acetone	50.0000	0.0000	87.4281	175	*	40 - 140
Carbon disulfide	50.0000	0.0000	51.0669	102		35 - 160
Methylene chloride	50.0000	0.0000	55.1473	110		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	50.7142	101		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	48.7820	98		65 - 125
1,1-Dichloroethane	50.0000	0.0000	54.5167	109		70 - 135
2-Butanone	50.0000	0.0000	64.3619	129		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	52.7587	106		70 - 125
Chloroform	50.0000	0.0000	51.3366	103		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	53.9412	108		65 - 130
Carbon tetrachloride	50.0000	0.0000	51.0988	102		65 - 140
1,2-Dichloroethane	50.0000	0.0000	51.4526	103		70 - 130
Benzene	50.0000	0.0000	50.1366	100		80 - 120
Trichloroethene	50.0000	0.0000	55.4893	111		70 - 125
1,2-Dichloropropane	50.0000	0.0000	54.7342	109		75 - 125
Bromodichloromethane	50.0000	0.0000	51.1523	102		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	49.9349	100		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	43.6916	87		60 - 135
Toluene	50.0000	0.0000	49.7687	100		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	53.6124	107		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	53.7845	108		75 - 125
Tetrachloroethene	50.0000	0.0000	52.8912	106		45 - 150
2-Hexanone	50.0000	0.0000	51.1226	102		55 - 130
Dibromochloromethane	50.0000	0.0000	50.0149	100		60 - 135
1,2-Dibromoethane	50.0000	0.0000	52.2674	105		80 - 120
Chlorobenzene	50.0000	0.0000	49.4967	99		80 - 120
Ethylbenzene	50.0000	0.0000	50.7452	101		75 - 125
Xylene (Total)	150.0000	0.0000	151.9232	101		81 - 121
Styrene	50.0000	0.0000	49.7453	99		65 - 135
Bromoform	50.0000	0.0000	47.9082	96		70 - 130
Isopropylbenzene	50.0000	0.0000	49.9095	100		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	45.4630	91		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.6433	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.5322	97		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	47.7753	96		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	41.2507	83		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	45.3627	91		65 - 135

SW846

0028

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE RECOVERY

EPA SAMPLE NO.

V1DLCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Lab Sample ID: LCS-43406 LCS Lot No.: _____
 Date Extracted: 05/05/2009 Date Analyzed (1): 05/05/2009

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	56.2919	113		70 - 130
Cyclohexane	50.0000	0.0000	58.3908	117		70 - 130
Methyl acetate	50.0000	0.0000	43.5720	87		70 - 130
Methylcyclohexane	50.0000	0.0000	60.6794	121		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 48 outside limits

COMMENTS: _____

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

VLDLCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Lab Sample ID: LCS D-43406 LCS Lot No.: _____

COMPOUND	SPIKE ADDED	LCS D CONCENTRATION	LCS D %REC	#	%RPD	#	QC LIMITS	
							RPD	REC.
Dichlorodifluoromethane	50.0000	56.1410	112		21		40	30 - 155
Chloromethane	50.0000	50.7964	102		1		40	40 - 125
Vinyl chloride	50.0000	57.5088	115		6		40	50 - 145
Bromomethane	50.0000	58.1904	116		14		40	30 - 145
Chloroethane	50.0000	63.4900	127		6		40	60 - 135
Trichlorofluoromethane	50.0000	46.4745	93		13		40	60 - 145
1,1-Dichloroethene	50.0000	49.5561	99		19		40	70 - 130
Acetone	50.0000	62.4832	125		33		40	40 - 140
Carbon disulfide	50.0000	45.7085	91		11		40	35 - 160
Methylene chloride	50.0000	52.9288	106		4		40	55 - 140
trans-1,2-Dichloroethene	50.0000	49.4818	99		2		40	60 - 140
Methyl tert-butyl ether	50.0000	45.6300	91		7		40	65 - 125
1,1-Dichloroethane	50.0000	53.3974	107		2		40	70 - 135
2-Butanone	50.0000	50.0052	100		25		40	30 - 150
cis-1,2-Dichloroethene	50.0000	50.3317	101		5		40	70 - 125
Chloroform	50.0000	48.3396	97		6		40	65 - 135
1,1,1-Trichloroethane	50.0000	50.7002	101		7		40	65 - 130
Carbon tetrachloride	50.0000	47.9139	96		6		40	65 - 140
1,2-Dichloroethane	50.0000	46.5079	93		10		40	70 - 130
Benzene	50.0000	46.3294	93		7		40	80 - 120
Trichloroethene	50.0000	51.7884	104		7		40	70 - 125
1,2-Dichloropropane	50.0000	51.2172	102		7		40	75 - 125
Bromodichloromethane	50.0000	48.6246	97		5		40	75 - 120
cis-1,3-Dichloropropene	50.0000	47.4607	95		5		40	70 - 130
4-Methyl-2-pentanone	50.0000	42.6438	85		2		40	60 - 135
Toluene	50.0000	46.9281	94		6		40	75 - 120
trans-1,3-Dichloropropene	50.0000	48.0048	96		11		40	55 - 140
1,1,2-Trichloroethane	50.0000	48.3571	97		11		40	75 - 125
Tetrachloroethene	50.0000	48.7734	98		8		40	45 - 150
2-Hexanone	50.0000	36.7660	74		32		40	55 - 130
Dibromochloromethane	50.0000	45.3227	91		9		40	60 - 135
1,2-Dibromoethane	50.0000	48.1548	96		9		40	80 - 120
Chlorobenzene	50.0000	46.3994	93		6		40	80 - 120
Ethylbenzene	50.0000	47.4550	95		6		40	75 - 125
Xylene (Total)	150.0000	138.9324	93		8		40	81 - 121
Styrene	50.0000	46.8030	94		5		40	65 - 135
Bromoform	50.0000	43.1415	86		11		40	70 - 130
Isopropylbenzene	50.0000	47.5313	95		5		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	41.9535	84		8		40	65 - 130
1,3-Dichlorobenzene	50.0000	46.2856	93		4		40	75 - 125
1,4-Dichlorobenzene	50.0000	45.5573	91		6		40	75 - 125
1,2-Dichlorobenzene	50.0000	44.8338	90		6		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	39.3980	79		5		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	44.5828	89		2		40	65 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	56.2580	113		0		40	70 - 130
Cyclohexane	50.0000	55.3872	111		5		40	70 - 130

SW846

0030

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

V1DLCSO

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Lab Sample ID: LCSD-43406 LCS Lot No.: _____

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
Methyl acetate	50.0000	43.7974	88	1	40	70 - 130
Methylcyclohexane	50.0000	54.4549	109	10	40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 48 outside limits

Spike Recovery: 0 out of 48 outside limits

COMMENTS: _____

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE RECOVERY

EPA SAMPLE NO.

V1ELCS

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Lab Sample ID: LCS-43424 LCS Lot No.: _____
 Date Extracted: 05/06/2009 Date Analyzed (1): 05/06/2009

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	63.3800	127		30 - 155
Chloromethane	50.0000	0.0000	48.4426	97		40 - 125
Vinyl chloride	50.0000	0.0000	51.5013	103		50 - 145
Bromomethane	50.0000	0.0000	63.0516	126		30 - 145
Chloroethane	50.0000	0.0000	48.7539	98		60 - 135
Trichlorofluoromethane	50.0000	0.0000	52.3749	105		60 - 145
1,1-Dichloroethene	50.0000	0.0000	58.6376	117		70 - 130
Acetone	50.0000	0.0000	65.6342	131		40 - 140
Carbon disulfide	50.0000	0.0000	45.6307	91		35 - 160
Methylene chloride	50.0000	0.0000	59.3911	119		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	44.9041	90		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	51.3458	103		65 - 125
1,1-Dichloroethane	50.0000	0.0000	51.8085	104		70 - 135
2-Butanone	50.0000	0.0000	66.6217	133		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	48.8669	98		70 - 125
Chloroform	50.0000	0.0000	46.4498	93		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	46.4507	93		65 - 130
Carbon tetrachloride	50.0000	0.0000	47.0315	94		65 - 140
1,2-Dichloroethane	50.0000	0.0000	49.1108	98		70 - 130
Benzene	50.0000	0.0000	44.7307	89		80 - 120
Trichloroethene	50.0000	0.0000	50.2448	100		70 - 125
1,2-Dichloropropane	50.0000	0.0000	51.0263	102		75 - 125
Bromodichloromethane	50.0000	0.0000	52.5303	105		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	49.5285	99		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	52.2054	104		60 - 135
Toluene	50.0000	0.0000	45.3530	91		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	53.8133	108		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	55.4773	111		75 - 125
Tetrachloroethene	50.0000	0.0000	46.3974	93		45 - 150
2-Hexanone	50.0000	0.0000	45.5211	91		55 - 130
Dibromochloromethane	50.0000	0.0000	52.1084	104		60 - 135
1,2-Dibromoethane	50.0000	0.0000	54.6630	109		80 - 120
Chlorobenzene	50.0000	0.0000	46.9963	94		80 - 120
Ethylbenzene	50.0000	0.0000	45.8441	92		75 - 125
Xylene (Total)	150.0000	0.0000	138.1367	92		81 - 121
Styrene	50.0000	0.0000	46.7151	93		65 - 135
Bromoform	50.0000	0.0000	55.4207	111		70 - 130
Isopropylbenzene	50.0000	0.0000	44.1825	88		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	46.5377	93		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	44.4066	89		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	41.7652	84		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	42.6477	85		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	48.4134	97		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	42.3184	85		65 - 135

SW846

0032

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

VIELCS

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SR0769
Lab Sample ID: LCS-43424 LCS Lot No.: _____
Date Extracted: 05/06/2009 Date Analyzed (1): 05/06/2009

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	48.9183	98		70 - 130
Cyclohexane	50.0000	0.0000	43.7692	88		70 - 130
Methyl acetate	50.0000	0.0000	50.9456	102		70 - 130
Methylcyclohexane	50.0000	0.0000	40.1996	80		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 48 outside limits

COMMENTS: _____

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

V1ELCSD

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM

Case No.: H0769

Mod. Ref No.:

SDG No.: SH0769

Lab Sample ID: LCSD-43424

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD #	QC LIMITS	
						RPD	REC.
Dichlorodifluoromethane	50.0000	42.1257	84		41	*	40 30 - 155
Chloromethane	50.0000	51.1873	102		5		40 40 - 125
Vinyl chloride	50.0000	51.4148	103		0		40 50 - 145
Bromomethane	50.0000	62.4226	125		1		40 30 - 145
Chloroethane	50.0000	58.3375	117		18		40 60 - 135
Trichlorofluoromethane	50.0000	50.3298	101		4		40 60 - 145
1,1-Dichloroethene	50.0000	60.4281	121		3		40 70 - 130
Acetone	50.0000	61.0893	122		7		40 40 - 140
Carbon disulfide	50.0000	45.7069	91		0		40 35 - 160
Methylene chloride	50.0000	57.6090	115		3		40 55 - 140
trans-1,2-Dichloroethene	50.0000	48.5359	97		7		40 60 - 140
Methyl tert-butyl ether	50.0000	51.2902	103		0		40 65 - 125
1,1-Dichloroethane	50.0000	53.9487	108		4		40 70 - 135
2-Butanone	50.0000	57.8926	116		14		40 30 - 150
cis-1,2-Dichloroethene	50.0000	51.4128	103		5		40 70 - 125
Chloroform	50.0000	50.3046	101		8		40 65 - 135
1,1,1-Trichloroethane	50.0000	52.4594	105		12		40 65 - 130
Carbon tetrachloride	50.0000	49.1804	98		4		40 65 - 140
1,2-Dichloroethane	50.0000	52.1537	104		6		40 70 - 130
Benzene	50.0000	48.2545	97		9		40 80 - 120
Trichloroethene	50.0000	52.1065	104		4		40 70 - 125
1,2-Dichloropropane	50.0000	54.4216	109		7		40 75 - 125
Bromodichloromethane	50.0000	53.8283	108		3		40 75 - 120
cis-1,3-Dichloropropene	50.0000	52.2646	105		6		40 70 - 130
4-Methyl-2-pentanone	50.0000	47.8783	96		8		40 60 - 135
Toluene	50.0000	48.3759	97		6		40 75 - 120
trans-1,3-Dichloropropene	50.0000	54.6673	109		1		40 55 - 140
1,1,2-Trichloroethane	50.0000	54.9096	110		1		40 75 - 125
Tetrachloroethene	50.0000	46.5851	93		0		40 45 - 150
2-Hexanone	50.0000	40.0470	80		13		40 55 - 130
Dibromochloromethane	50.0000	51.5469	103		1		40 60 - 135
1,2-Dibromoethane	50.0000	52.9342	106		3		40 80 - 120
Chlorobenzene	50.0000	47.5972	95		1		40 80 - 120
Ethylbenzene	50.0000	46.6761	93		1		40 75 - 125
Xylene (Total)	150.0000	140.7720	94		2		40 81 - 121
Styrene	50.0000	47.2453	94		1		40 65 - 135
Bromoform	50.0000	51.0568	102		8		40 70 - 130
Isopropylbenzene	50.0000	46.3992	93		6		40 75 - 125
1,1,2,2-Tetrachloroethane	50.0000	48.3487	97		4		40 65 - 130
1,3-Dichlorobenzene	50.0000	46.2421	92		3		40 75 - 125
1,4-Dichlorobenzene	50.0000	43.0423	86		2		40 75 - 125
1,2-Dichlorobenzene	50.0000	46.0137	92		8		40 70 - 120
1,2-Dibromo-3-chloropropan	50.0000	45.2548	91		6		40 50 - 130
1,2,4-Trichlorobenzene	50.0000	44.7694	90		6		40 65 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	44.8539	90		9		40 70 - 130
Cyclohexane	50.0000	48.9442	98		11		40 70 - 130

SW846

0034

3 - FORM III
 WATER LABORATORY CONTROL
 SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

VIELCSD

Lab Name: MITKEM LABORATORIES Contract: _____
 Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
 Lab Sample ID: LCSD-43424 LCS Lot No.: _____

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	QC LIMITS	
						RPD	REC.
Methyl acetate	50.0000	48.3165	97		5	40	70 - 130
Methylcyclohexane	50.0000	47.6682	95		17	40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 48 outside limits

Spike Recovery: 0 out of 48 outside limits

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1D

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
Lab File ID: V1K6444.D Lab Sample ID: MB-43406
Instrument ID: V1
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/05/2009
Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:49
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1DLCS	LCS-43406	V1K6445.D	11:16
02	V1DLCS D	LCSD-43406	V1K6446.D	11:43
03	EFFLUENT	H0769-02C	V1K6458.D	17:04
04	INFLUENT	H0769-01C	V1K6464.D	19:44

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1E

Lab Name: MITKEM LABORATORIES Contract: _____
Lab Code: MITKEM Case No.: H0769 Mod. Ref No.: _____ SDG No.: SH0769
Lab File ID: V1K6483.D Lab Sample ID: MB-43424
Instrument ID: V1
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/06/2009
Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:12
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1ELCS	LCS-43424	V1K6484.D	10:55
02	V1ELCSD	LCSD-43424	V1K6485.D	11:22
03	INFLUENTDL	H0769-01CDL	V1K6488.D	12:52

COMMENTS: _____



* Wet Chemistry *

Mitkem Laboratories

Date: 14-May-09

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: H0769-01

Project: Mr. C's Dry Cleaning

Collection Date: 05/04/09 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO ₃)	560		4.0	mg/L CaCO ₃		1 05/08/2009 11:58	43462
SM 4500 pH -- pH VALUE							SM4500_H+
pH	6.9		1.0	S.U.		1 05/05/2009 14:00	R38431

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

0039

Mitkem Laboratories

Date: 14-May-09

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: H0769-02

Collection Date: 05/04/09 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO ₃)	550		4.0	mg/L CaCO ₃		1 05/08/2009 12:01	43462
SM 4500 pH -- pH VALUE							SM4500_H+
pH	8.1		1.0	S.U.		1 05/05/2009 14:05	R38431

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: Ecology and Environment Engineering P.C.

Work Order: H0769

Project: Mr. C's Dry Cleaning

SM2340_W

SM 2340 -- HARDNESS by Calculation

Sample ID: MB-43462	SampType: MBLK	TestCode: SM2340_W	Prep Date: 5/7/2009	Run ID: OPTIMA3_090508D
Client ID: MB-43462	Batch ID: 43462	Units: mg/L CaCO3	Analysis Date: 5/8/2009	SeqNo: 1028483
Analyte	Result	PQL	SPK value	SPK Ref Val
Hardness, Ca/Mg (As CaCO3)	ND	4.0	%REC LowLimit	RPD Ref Val
			HighLimit	%RPD RPDLimit
				Qual

0041

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Ecology and Environment Engineering P.C.

Work Order: H0769

Project: Mr. C's Dry Cleaning

SM4500_H+

SM 4500 pH -- pH VALUE

Sample ID: H0769-02ADUP	SampType: DUP	TestCode: SM4500_H+	Prep Date: 5/5/2009	Run ID: PH METER_090505A						
Client ID: EFFLUENT	Batch ID: R38431	Units: S.U.	Analysis Date: 5/5/2009	SeqNo: 1026485						
Analyte	Result	PQL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.100	1.0	0	0	0	0	8.090	0.124	20	

0042

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Last Page of Data Report

Attachment C

**Summary of Site Utility Costs and Projections
January to December 2009**

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

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

May 2009 Report

Monthly Treatment System Operational Time by O&M Services

Month	Possible OP Hours	Actual OP Hours	Up-Time Percent	Percent Capacity*	General Operation Comments	Budget Remaining:	Electric:	\$21,712.23
September-03	96	96	100.00%	58%			Telephone:	\$540.00
October-03	168	168	100.00%	6%	Shutdown by Tyree after Separable Part B Inspection		Gas	\$424.47
November-03	720	720	100.00%	5%	Official Startup by O&M Enterprises on 10/22/03		Total:	\$22,676.70
December-03	744	744	100.00%	28%				
January-04	672	672	100.00%	16%				
February-04	696	696	100.00%	21%				
March-04	816	815	99.88%	51%				
April-04	672	670	99.70%	50%				
May-04	696	513	73.71%	43%	Equipment shutdown- low flow of water to air stripper - 5/17-24/04			
June-04	696	692	99.43%	30%	Individual pumps shutdown for inspection and cleaning			
July-04	840	840	100.00%	47%	100% operational			
August-04	672	672	100.00%	42%	100% operational			
September-04	840	820	97.62%	31%	Temporary Stripper Shutdown			
October-04	672	607	90.33%	33%	65 hour weekend shutdown due to low pressure problems with the airstripper			
November-04	696	641.5	92.17%	37%				
December-04	816	792	97.06%	42%	GAC units removed from treatment system operations			
January-05	840	840	100.00%	46%	GAC units removed from project site 1/14/05			
February-05	672	660	98.21%	41%	Unit cleaned February 4, 2005			
March-05	840	828	98.57%	33%	Unit shut down for additional cleaning and sequestering agent review.			
April-05	696	609	87.50%	58%	Unit cleaned April 8, 2005. Back in service until new sequestering agent approved and installed.			
May-05	840	768	91.43%	36%	Unit re-cleaned and new water treatment chemical stirred operations on 5/19/05			
June-05	744	644	86.56%	30%	Extremely dry month of June.			
July-05	624	605.5	97.04%	44%	Extremely dry month of July.			
August-05	696	696	100.00%	44%	Extremely dry month of August.			
September-05	864	864	100.00%	40%	Extremely dry month of September.			
October-05	672	672	100.00%	39%	Extremely dry month of October.			
November-05	672	659	98.07%	34%	Power outage occurred November 6, 2005			
December-05	864	854	98.84%	29.6%	Air Stripper cleaning occurred on 12/27/05			
January-06	816	816	100.00%	36.7%				
February-06	696	696	100.00%	54.8%				
March-06	696	696	100.00%	56.4%				
April-06	696	689	98.99%	34.3%	Dry month, 5 hours for cleaning the stripper			
May-06	696	689	98.99%	32.3%	Dry month, 5 hours for cleaning the stripper			
June-06	816	812	99.51%	28.6%				
July-06	624	621	99.52%	27.8%				
August-06	696	696	100.00%	26.4%				
September-06	840	834	99.29%	28.2%	Stripper cleaning performed			
October-06	628	609	96.91%	27.0%	power outage from severe winter storm 10/12-10/14			
November-06	672	672	100.00%	28.7%				
December-06	720	706	98.06%	28.6%				
Totals to Date	28132	27394	97.38%					

ATTACHMENT C

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance May 2009 Report

From Page 2	Possible OP Hours	Actual OP Hours	Up-Time Percent	Percent Capacity*		ATTACHMENT C
January-07	28132	27394	97.38%			
February-07	984	983	99.90%	26.7%	Cold month.	
March-07	480	480	100.00%	40.7%	Extra Cold month.	
April-07	672	672	100.00%	28.1%		
May-07	888	888	100.00%	27.1%		
June-07	696	696	100.00%	26.2%	Dry month	
July-07	648	644	99.38%	25.1%		
August-07	696	696	100.00%	24.1%		
September-07	792	792	100.00%	27.4%		
October-07	816	816	100.00%	21.0%	Dry month	
November-07	896	696	100.00%	19.9%	Dry month	
December-07	744	741	99.60%	19.3%		
January-08	840	720	85.71%	27.4%	Stripper down for cleaning and Pump RW-1 offline	
February-08	620	600	96.77%	5.4%	RW-1 pump off-line	
March-08	672	644	95.83%	5.4%	RW-1 pump return to service, PW-4 off line	
April-08	840	832	99.05%	19.7%		
May-08	696	696	100.00%	19.3%		
June-08	696	695	99.86%	18.1%	Pumps PW-4 and PW-8 under repair	
July-08	816	816	100.00%	17.1%	Low-flow pumps being inspected and cleaned.	
August-08	648	696	100.00%	19.0%	Wells PW02-08 were reconitioned in July. PW-4 well down due to transducer issues	
September-08	840	840	100.00%	20.0%	Well PW-5 down due to transducer problems.	
October-08	720	720	100.00%	25.0%	Well reconitioning complete and PW-5 back in service.	
November-08	816	816	100.00%	18.4%	All systems operational - Dry month	
December-08	816	816	100.00%	14.2%	Wiring problem with RW-1 pump.	
January-09	672	672	100.00%	25.1%	Full operations	
February-09	744	600	80.65%	37.5%	Effluent Corrective Action - Air Stripper Cleanup	
March-09	672	672	100.00%	38.3%		
April-09	768	768	100.00%	37.6%		
May-09	696	696	100.00%	32.9%	Dry month - Full operations	
June-09	696	696	100.00%	27.4%		
Totals to Date	49512	48437	97.83%	#DIV/0!	Based on OM services provided by EEPC/OME/lyer since 9/03.	

* 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.

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

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

May 2009 Report

Mr. C's Electric \$ 761.14

Agway Electric \$ 522.62

Mr. C's Gas \$ 147.77

Mr. C's Telephone \$ -

Ave. Utility Cost Total | \$ 1,431.52 times

12 month Estimate \$18,609.70

ATTACHMENT C