



ecology and environment engineering, p.c.

International Specialists in the Environment

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October 9, 2013

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

Re: Mr. C's Dry Cleaners Site, Contract # D007617, Site # 9-15-157
September 2013 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the September 2013 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 bi-monthly inspection reports prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), are provided in Attachment A. Selected pages from the individual analytical data packages prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as Attachments B. The full analytical reports along with QA/QC information will be retained by EEEPC.

In review of the on-site treatment system operations, monitoring and maintenance for September 2013, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations Information

- Checklists for system inspections from IEG are provided as Attachment A for 9/9/13, 9/16/13, and 9/30/13. Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100.00% operational up-time (Table 1) and the treatment of contaminated groundwater during that period totaling of 211,448 gallons (Table 2) for September 2013.
- Compliance samples were taken on September 19, 2013 (Attachment B) and analytical results received on October 2, 2013 from SAI. The results comply with the daily maximum effluent discharge criteria requirements in the site specific SPDES Equivalency Permit (Table 3). Methyl tert-butyl ether; cis-1,2,-dichloroethene; trichloroethene; and tetrachloroethene were detected at above criteria concentrations in the influent sample but not detected in the effluent sample.

- The analytical results of the sample revealed the total volatile organic contaminant concentrations of the influent to be 233 µg/L or 233 ppb. Treated effluent has non-detectible contaminant concentrations. The summary of influent and effluent contaminant concentrations for the September 2013 sampling is presented in Table 4.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 0.41 lbs. of targeted contaminants from the groundwater below the site in the month of September 2013. The calculations and data for the month are presented in Table 5.
- Other System Work performed –
 - Ball Valve inspections were done on 9/13/13, 9/16/13, and 9/29/13.
 - Bag filters were changed on 9/5/13, 9/13/13, and 9/26/13.
 - PW-4 was cleaned on 9/9/13 and inspected on 9/13/13
 - In addition to weekly OM&M work, SVE planning was also performed in September.

Mr. C's Site – Property Information

- Contact information regarding the property owner and party leasing the Mr. C's building was provided to the NYSDEC. The information provided is as follows: Property owner (586 Main Street) – DelTora LLC – Owner - Mr. Paul Bendrowski – 231-313-1954 (Traverse City, MI) – Local Point of Contact – Bob Kowal - . Property Lease – Intrepid Automotive Partners – Dave Kern – 716-481-5703 (East Aurora, NY).

Agway Site Remedial Information

- NYSDEC is performing the scheduling of the removal of the shed and ancillary equipment in the next few months.

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

- Site inspection of the church facility on February 20, 2013, revealed that the south SSDS unit was shut off. System was switched back on by field staff. EEEPC to review changing of the switch for this fan to provide uninterrupted operations.
- Property owners at 27 Whaley Ave. have not returned our calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.

Bioaugmentation Direct Push Injection Work

- Procurement for obtaining a direct push subcontractor was performed in March 2013. The successful bidder was Nature's Way Environmental, Alden, NY.
- Part 1 of the bio-augmentation direct push injection work was performed by Nature's Way from May 20, through 31, 2013. Part 1 of the program was the injection of the Regensis HRC primer and 3-D Microemulsion. Oversight of the first for program performance and quality assurance of the scope of work was provided by EEEPC.
- The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013.
- Pumping Wells PW-5 and PW-7 still remain temporarily turned off due to close proximity to the injection locations of the "pilot" bio-augmentation program.
- Monthly monitoring and analyses to be performed for eight months to evaluate the effectiveness of the "pilot" installation on the groundwater from the local area monitoring wells. Interim status reports to be performed and issued by EEEPC.
- The second phase of the bio-injections (BDI Plus) was completed July 15-19, 2013. It is estimated to take a week to complete.
- The 2nd progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on August 8-9, 2013.
- Status report on the performance of the "pilot" bio-augmentation program was issued to NYSDEC on August 29, 2013. Report evaluated the baseline sampling plus the two rounds of monthly monitoring.
- The monthly status sampling was performed on September 9 & 10, 2013. Next task progress reporting to occur in October 2013.

Mr. C's and Agway Energy Usage Information

- A copy of the site utility costs from the Mr. C's remedial operations for January through December 2013 are provided as Attachment C.

Soil Vapor Intrusion Investigation Program

- Soil vapor intrusion investigation, surveys, and sampling were performed at three out four properties surrounding the Mr. C's site on March 6, 7, and 20, 2013. The three properties included the Mr. C's Indoor Air (586 Main Street), The Brownschidle building (578-580 Main Street), and the Doeing Building (572-576 Main Street). The Pitt property (19 Whaley Avenue) would not allow access.
- Analytical results have been received for all three locations and a final validated report was delivered to NYSDEC and NYSDOH on May 7, 2013.
- Letters issued from NYSDOH (May 28, 2013) to the property owners regarding the need to install mitigation systems on the property. Further discussions regarding the installation of the mitigation system will be performed with the NYSDEC PM.
- Field measurements of the basements at 578 Main Street and 572 Main Street for the installation of the SSDS units were performed by EEEPC engineering personnel in July and August. Drawings under internal review for submission to NYSDEC and the installation of SSDS units by the NYSDEC's proposed callout contractor.

Mr. William Welling, Project Manager
October 9, 2013
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Site Management Plan

- Issued the draft Site Management Plan (SMP) on December 28, 2012 for review and comment. The SMP was revised to be consistent with the new NYSDEC template format.

If you have questions regarding the September 2013 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,
Ecology and Environment Engineering, P. C.



Michael G. Steffan
Project Manager

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

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

Month	Reporting Hours	Operational Up-time
(Up-time from inception to 12/31/12)	87,871.50	96.63%
January 7, 2013 - February 4, 2013	576	85.71%
February 4, 2013 - March 4, 2013	594	88.39%
March 4, 2013 - April 3, 2013	720	100.00%
April 3, 2013 - May 6, 2013	792	100.00%
May 6, 2013 - June 3, 2013	672	100.00%
June 3, 2013 - July 1, 2013	672	100.00%
July 1, 2013 - August 14, 2013	648	61.36%
August 14, 2013 - September 5, 2013	528	100.00%
September 5, 2013 - September 30, 2013	600	100.00%
Total Hours from System Startup '2/02'	93,673.50	
Average Operational Up-time from startup =		96.25%
Average Operational Up-time for 2013 =		90.88%

NOTES:

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

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

Month	Actual Period	Gallons (Treated Effluent)
Total - Inception to December 2012	9/5/02 - 12/4/12	118,436,077
January 2013 ³	1/7/13 - 2/4/13	261,527
February 2013 ³	2/4/13 - 3/4/13	242,509
March 2013 ³	3/4/13 - 4/3/13	321,888
April 2013 ³	4/3/13 - 5/6/13	398,999
May 2013	5/6/13 - 6/3/13	304,452
June 2013	6/3/13 - 7/1/13	238,715
July 2013	7/1/13 - 8/14/13	255,356
August 2013	8/14/13 - 9/5/13	188,701
September 2013	9/5/13 - 9/30/13	211,448
October 2013		0
November 2013		0
December 2013		0
Total Gallons Treated in 2013		2,423,595
Total Gallons Treated To Date:		120,859,672

NOTES:

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

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

Parameter/Analyte	Daily Maximum ¹	Units	September 26, 2013 - Effluent Analytical Values Compliance
Flow	N/A	gpd	8,458
Ph	6.0 - 9.0	standard units	8.10
1,1 Dichloroethene	10	µg/L	ND(<1.0)
1,1 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	ug/L	ND(<1.0)
o-Xylene ²	5	µg/L	NA
m, p-Xylene ²	10	µg/L	NA
Total Xylenes	NA	ug/L	ND(<1.0)
Iron, total	600	µg/L	NA ⁹
Aluminum	4,000	µg/L	NA ⁹
Copper	48	µg/L	NA ⁹
Lead	11	µg/L	NA ⁹
Manganese	2,000	µg/L	NA ⁹
Silver	100	µg/L	NA ⁹
Vanadium	28	µg/L	NA ⁹
Zinc	230	µg/L	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹
Hardness	N/A	mg/L	400
Cyanide, Free	10	µg/L	NA ⁹

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
2. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
3. Shaded cells indicate that analytical value exceeds the "Daily Maximum."
4. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
5. "NA" indicates that analyses were not performed and data is unavailable.
6. Average flows based on effluent readings September 5th, 2013 through September 30, 2013. Total gallons: 211,448 divided by 25 operating days.
7. "J" indicates an estimated value below the detection limit.
8. "B" indicates analyte found in the associated blank.
9. Removed from the required analysis list by NYSDEC Region 9 in February 2005.

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

Table 4
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
September 2013 VOC Analytical Summary

Compound	Based on the 9/19/13 Effluent Sampling Results				
	Influent Concentration*		Effluent Concentration*		Cleanup Efficiency**
	(ug/L)		(ug/L)		(%)
Acetone	ND (<5.0)	U	ND (<5.0)	U	NA
Benzene	ND (<1.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<5.0)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	25		ND (<1.0)	U	100.00%
Chloroform	ND (<1.0)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<1.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	1.6		ND (<1.0)	U	100.00%
Tetrachloroethene (PCE)	200.0		ND (<1.0)	U	100.00%
Toluene	ND (<1.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	6.4		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<1.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<1.0)	U	ND (<1.0)	U	NA
Cyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<1.0)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<1.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<1.0)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<1.0)	U	ND (<1.0)	U	NA
<ul style="list-style-type: none"> The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013. 					100.00%
		233.0	0.00		

Notes:

- "NA" = Not applicable
- "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
- "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
- Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
- "D" indicates the compound concentration was obtained from a secondary dilution analysis.

* (<50) - Detection Limit

** Contaminants of Concern only

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

Month	Actual Period	Influent VOCs (µg/L)	Effluent VOCs (µg/L)	VOCs Removed (lbs.)
Total pounds of VOCs removed from inception to December 2012 =				1556.45
January 2013	01/7/13 - 2/4/13	1094.9	0.91	2.39
February 2013	2/4/13 - 3/4/13	1112.2	12.44	2.23
March 2013	3/4/13 - 4/3/13	1306.0	23.65	3.44
April 2013	4/3/13 - 5/6/13	1744.0	5.80	5.79
May 2013	5/6/13 - 6/3/13	1097.0	10.00	2.76
June 2013	6/3/13 - 7/1/13	103.1	6.87	0.19
July 2013	7/1/13 - 8/14/13	144.6	1.50	0.30
August 2013	8/14/13 - 9/5/13	117.6	2.12	0.18
September 2013	9/5/13 - 9/30/13	233.0	0.00	0.41
October 2013				0.00
November 2013				0.00
December 2013				0.00
Total pounds of VOCs removed from inception =				1,574.15
Total pounds of VOCs removed in 2013 =				17.70

HISTORICAL NOTES:

1. Calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
2. Calculations assume that non-detect values = 0 µg/L.
3. Total VOCs summations include estimated "J" values.
4. Calculations are based on effluent totalizer readings.
5. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
6. Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
7. Treatment system operated by O&M Enterprises from 10/03 to 7/07.
8. Treatment system operated by IEG from 7/07 to present.

CONVERSIONS:

1 pound = 453.5924 grams
1 gallon = 3.785 liters

Based on the Analytical Results from Each Month:

Pounds of VOCs removed calculated by the following formula:

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

Attachment A
IEG Weekly Inspection Reports
September 2013

Including:

9/9/13

9/16/13

9/30/13

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

DATE: 9-Sep-13 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (° F): 54

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

PW-4 and PW-6 are OFF due to maintenance problems.

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

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>3</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft	PW-8	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>6</u> ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 9/5/13 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: _____ gpm INFLUENT TOTALIZER READING _____ gallons

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

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

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>12</u>	<u>0</u> psi	RIGHT:	<u>21</u>	<u>0</u> psi

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

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 9.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.46 in. H₂O DISCHARGE PRESSURE: 0.5 in. H₂O

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

EFFLUENT FLOW RATE: 120 gpm EFFLUENT TOTALIZER READING: 72,260,518 | 775090 gallons

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

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

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

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

9-Sep-13

SAMPLES COLLECTED? YES: _____ NO:

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

IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ? YES: _____ NO:

WERE MANHOLES INSPECTED? YES: NO: _____

WERE ELECTRICAL BOXES INSPECTED? YES: NO: _____

IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: _____ NO:

If yes, provide manhole/electric box ID and description of any corrective measures below:

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

Remarks: _____

Other Actions: Changed bag filters

AGWAY

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

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

Remarks: System is OFF until further instructions.

Other Actions: _____

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

DATE: 16-Sep-13 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: E & E, Inc

WEATHER CONDITIONS: Cloudy, drizzle, warm OUTSIDE TEMPERATURE (° F): 55

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

PW-4 and PW-6 are OFF due to maintenance problems.

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

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>5</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>15</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 9/13/13 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 0 gpm INFLUENT TOTALIZER READING 764.0 gallons

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

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

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

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

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

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.43 in. H₂O DISCHARGE PRESSURE: 0.4 in. H₂O

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

EFFLUENT FLOW RATE: _____ gpm EFFLUENT TOTALIZER READING: 72,316,773 | 832750 gallons

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

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

WATER LEVEL IN SUMP: 5.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

16-Sep-13

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	11:00 AM	7.69	11.00	17.5	2552
AIR STRIPPER EFFLUENT:	EFF	11:00 AM	8.51	7.50	18.0	2437

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:
 Puddles are covering many MWs and UEs from ongoing rain.

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

Remarks: Slow leak from ball valve near Equalizer Tank.

Other Actions: Disassembled, cleaned and rotated leaking ball valve. Reinstalled valve - continues to leak. Ordered new valve.
 PW-4 - repair and start.

AGWAY

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

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

Remarks: System is OFF until further instructions.

Other Actions:

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

DATE: 30-Sep-13 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

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

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

PW-6 is OFF due to maintenance problems.

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

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>8</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 9/26/13 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 4 gpm INFLUENT TOTALIZER READING 196,610.0 gallons

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

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

BAG FILTER PRESSURES:	LEFT:	Top	Bottom	RIGHT:	Top	Bottom
		<u>0</u>	<u>0</u> psi		<u>7</u>	<u>0</u> psi

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

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

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.41 in. H₂O DISCHARGE PRESSURE: 0.4 in. H₂O

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

EFFLUENT FLOW RATE: 112 gpm EFFLUENT TOTALIZER READING: 72,438,902 957810 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (° F): 76

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

WATER LEVEL IN SUMP: 1.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

30-Sep-13

SAMPLES COLLECTED? YES: _____ NO: ✓

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
--	-----------	------------------	----	-----------	-------	-----------

AIR STRIPPER INFLUENT: _____

AIR STRIPPER EFFLUENT: _____

IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ? YES: _____ NO: ✓

WERE MANHOLES INSPECTED? YES: ✓ NO: _____

WERE ELECTRICAL BOXES INSPECTED? YES: ✓ NO: _____

IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: _____ NO: ✓

If yes, provide manhole/electric box ID and description of any corrective measures below:

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

Remarks: Ball Valve near Equalizer Tank drips.

Other Actions:

AGWAY

SYSTEM VACUUM: _____ In. H₂O

AIR PRESSURE: _____ psi

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

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

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

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

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

Remarks: System is OFF until further instructions.

Other Actions:

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 9/2013

DATE	ACTIVITY
4-Sep	End of month summaries.
5-Sep	OM&M Weekly Inspection. Change bag filters.
9-Sep	OM&M Weekly Inspection.
13-Sep	Ball Valve inspection and clean. Change bag filters.
16-Sep	OM&M Weekly Inspection. Inspect Ball Valve and attempt repair. Get supplies.
18-Sep	PW-4 - mobilize repair equipment. Start system and inspect for leaks. Plan SVE system.
19-Sep	Meet with E & E, Inc to discuss SVE system. Sampling.
23-Sep	OM&M Weekly Inspection. Dug ruts around edge of Library Parking Lot to trap debris. Swept parking lot.
25-Sep	Piezometer Readings and office work.
26-Sep	Change Bag Filters
29-Sep	Inspect Ball Valve drip bucket.
30-Sep	OM&M Weekly Inspection. SVE system office work.

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 9/2013

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
PW-8 cycles erratically	Transducer appears defective. Inspect/clean transducer and aneroid bellows.	Apr-13
PW-2 not pumping	Inspect and clean pump and transducer. Replace defective well pump.	Apr-13
PW-4 Well Repair and Level	Asphalt around PW-4 well has sunk, due to collapse of corroded inner ring. Replace inner ring and bring parking lot up to level with asphalt patch.	Aug-13
PW-4 UE Level	Asphalt around Underground Enclosure has sunk, leaving it vulnerable to damage. Bring parking lot up to level with asphalt patch.	in progress
Rebuild JAC Pump as needed	Jesco America Corp recommends rebuilding the Redux pump when needed. Purchased rebuild kit.	in progress
Brace Effluent Pipe	David Szymanski (NYSDEC) inspected Treatment Room and said that the effluent pipe should be braced in (3) places to the north wall.	in progress
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	in progress
Trim Broken Piezometers	Many of the piezometers are broken. Measuring water levels is not precise when a pipe is broken. Identify and trim all broken piezometers.	in progress
Cool Treatment Room	Temperature in Treatment Room is well above 90 degrees during the summer months. Need to increase outside air inflow to the room.	in progress
Replace Air Stripper Exhaust	Present Air Stripper exhaust is very heavy and leaks moisture. Replace with lighter system.	in progress
Demobilize Agway Shed	Remove all equipment from shed and deliver to owner/recycle/dispose as needed; dismantle electrical installations; disassemble/remove shed structure/base.	on hold
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replace pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels broken/does not seal well. Repair/replace pitless adapter	in progress
Blower #2 makes loud noise	Fan seems to have slipped off of the motor shaft. Disassemble, inspect and repair.	in progress
PW-6 pumping into itself	Water enters well when well pump is running. Suspect faulty check valve. Test and repair as needed.	in progress
Dispose Open Top Sludge Drum	Plastic 55 gal drum with open top is almost full of sludge. Dispose of drum to free up space in the cramped Treatment Room.	in progress
Dispose used Bag Filters	There are (2) Metal 55 gal drums filled with used bag filters. Dispose of both drums and get new drum to store used bag filters.	in progress
Filter Housings are corroded	Flanges that seal filter baskets inside Rosedale Filter Housings are corroded. Sediment flows around filters instead of being trapped. Replace seals in existing housings (short term). Replace housings (long term).	in progress
Teardown Air Stripper and clean	Sediment bypass from corroded filter housings has plugged lower tray of Air Stripper. Tear down and clean.	Jul-13
Move Effluent Pipe	Effluent pipe blocks the access ports of Tray #2. Air Stripper cleaning through these access ports is compromised. Lower effluent pipe 8" to clear the ports.	Jul-13
Replace Air Stripper Latches	Around (6) latches on the Air Stripper trays are loose or broken. Reattach keepers with JB Weld. Replace broken latches and springs with new parts.	in progress
Repair new Air Stripper holes	After last teardown clean of Air Stripper, more corroded areas started to leak upon reassembly. Repatch old leaking patches as well as new corroded areas.	Aug-13
Repair Air Stripper exhaust pipe	Air Stripper exhaust pipe corroded through inside at the elbow near the ceiling and outside through the vertical pipe. Replace all corroded parts and seal. Add plastic tubes on support wires to prevent wear of flexible pipe.	Aug-13
Repair Leaking Ball Valve	Ball Valve in influent pipe near the Equalizer Tank drips. Inspect, clean and replace if necessary.	in progress
Install Sub Slab Vapor Extraction System	High levels of VOCs were found under the floor of the Treatment Room. Install a system to remove these vapors and discharge them into the air above the roof.	in progress

Mr. C's CLEANERS OM&M
SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2013

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

as of Sep 2013

CLEAN OUT & INSPECT ELECTRICAL BOX	ELECTRICAL BOX REPAIR
Nov-11	Sep-09
Nov-11	
Sep 09, Nov 11	Sep-09
Jan-12	
Aug 09, Sep 09	Jul 09, Sep 09
Apr-13	Apr-13

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2013

85 C

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

of Sep 2013

NEEDS U.E. REPAIR
YES - bolts
YES - bolts
NO
YES - Asphalt patch
NO
DONE
NO
NO

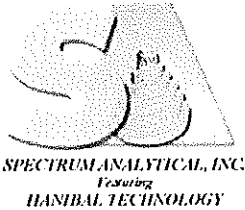
Attachment B
Analytical Report from
Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: M1774

Sampled: September 19, 2013

Received: October 2, 2013

Report Date:
26-Sep-13 12:33



- Final Report
- Re-Issued Report
- Revised Report

Laboratory Report

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

Work Order: M1774
Project: Mr. C's Dry Cleaning
Project #: 4500000623/EN-003229-0001-03TTO

Attn: Michael Steffan

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
M1774-01	INFLUENT	Aqueous	19-Sep-13 11:30	20-Sep-13 10:50
M1774-02	EFFLUENT	Aqueous	19-Sep-13 11:30	20-Sep-13 10:50

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

All applicable NELAC or USEPA CLP requirements have been met.

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

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

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	B87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

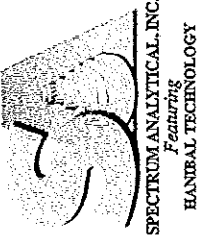


Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Sample Transmittal Documentation



CHAIN OF CUSTODY RECORD

Page 1 of 1

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

8405 Benjamin Road, Ste A
 N Kingstown, RI 02852
 (401) 732-3400

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

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

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

Invoice To: E&E, Inc

Project No.: _____
 Site Name: Mr CE @ M&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=Deionized Water 10=H₃PO₄ 11=_____ 12=_____

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

List preservative code below:
1 4 2

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

Lab Id.	Sample Id.	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	Temp °C
M1774												
01	INFLUENT	9/19/13	11:30 A	G	GW				1			
01	INFLUENT			G	GW				1		PH	
01	INFLUENT			G	GW	3			1		VOC	
02	EFFLUENT			G	GW				1			
02	EFFLUENT			G	GW				1			
02	EFFLUENT			G	GW	3			1			

Relinquished by: Richard C. Allen Jr Received by: Mike Steffan

Date: 9/20/13 Time: 10:50

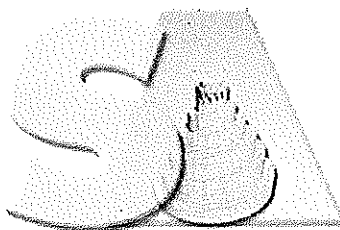
EDD Format: PDF

E-mail to: m.steffan@eme.com

Condition upon receipt: Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen Present Intact Broken

Spectrum Analytical Inc. - North Kingstown RI --- Rhode Island Division

Received By: <u>WJK</u>		Page 01 of 00	
Reviewed By: <u>VCB</u>		Log-in Date 09/20/2013	
Work Order: M1774		Client Name: Ecology and Environment Engineering P.C.	
Project Name/Event: Mr. C's Dry Cleaning / 4500000623/EN-003229-0001-03TTO			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			
		Preservation (pH)	
	Lab Sample ID	HNO3	H2SO4
		HCL	NaOH
		H3PO4	VOA Matrix
Soil HeadSpace or Air Bubble > or equal to 1/4"			
1. Custody Seal(s)	<u>Present / Absent</u>		
	<u>Intact / Broken</u>		
2. Custody Seal Nos.	N/A		
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	<u>Present / Absent</u>		
4. Airbill	<u>AirBill / Sticker</u>		
	<u>Present / Absent</u>		
5. Airbill No.	FedEx 7967 2434 8060		
6. Sample Tags	<u>Present / Absent</u>		
Sample Tag Numbers	Listed /		
	<u>Not Listed on Chain-of-Custody</u>		
7. Sample Condition	<u>Intact / Broken / Leaking</u>		
8. Cooler Temperature Indicator Bottle	<u>Present / Absent</u>		
9. Cooler Temperature	3.2 °C		
10. Does information on TR/COCs and sample tags agree?	<u>Yes / No</u>		
11. Date Received at Laboratory	09/20/2013		
12. Time Received	10:50		
Sample Transfer			
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO		
Area #	Area #		
By	By		
On	On		
IR Temp Gun ID:MT-74		VOA Matrix Key:	
Coolant Condition: ICE		US = Unpreserved Soil	A = Air
Preservative Name/Lot No:		UA = Unpreserved Aqueous	H = HCl
		M = MeOH	E = Encore
		N = NaHSO4	F = Freeze
		See Sample Condition Notification/Corrective Action Form Yes / <u>No</u>	
		Rad OK <u>Yes</u> / No	



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Volatiles ***

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Ecology and Environment Engineering P.C.

Project: Mr. C's Dry Cleaning

Laboratory Workorder / SDG #: M1774

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA

Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-73823 in batch 73823, recovery is below criteria for Benzene at 80% with criteria of (80-120).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

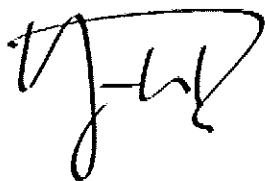
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

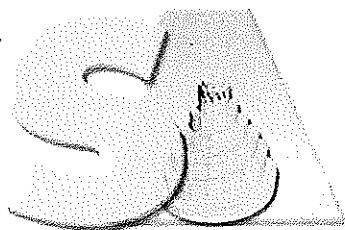
No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. W.', written over a horizontal line.

Signed: _____

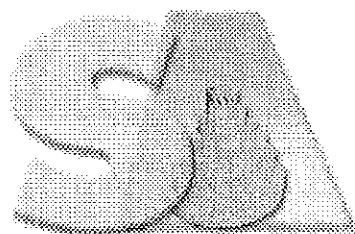
Date: 9/26/2013



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Sample Data ***

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com



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HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL** Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE** Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA** Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX** Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS** Matrix Spike.
- MSD** Matrix Spike Duplicate
- DUP** Duplicate analysis
- SD** Serial Dilution
- PS** Post-digestion or Post-distillation spike. For metals or inorganic analyses

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

EPA SAMPLE NO.

LCS-73823

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1774 Mod. Ref No.: _____ SDG No.: SM1774
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-73823
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0715.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 09/23/2013
 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		43	
74-87-3	Chloromethane		43	
75-01-4	Vinyl chloride		42	
74-83-9	Bromomethane		40	
75-00-3	Chloroethane		42	
75-69-4	Trichlorofluoromethane		53	
75-35-4	1,1-Dichloroethene		45	
67-64-1	Acetone		42	
75-15-0	Carbon disulfide		39	
75-09-2	Methylene chloride		37	
156-60-5	trans-1,2-Dichloroethene		39	
1634-04-4	Methyl tert-butyl ether		41	
75-34-3	1,1-Dichloroethane		45	
78-93-3	2-Butanone		36	
156-59-2	cis-1,2-Dichloroethene		42	
67-66-3	Chloroform		47	
71-55-6	1,1,1-Trichloroethane		50	
56-23-5	Carbon tetrachloride		51	
107-06-2	1,2-Dichloroethane		53	
71-43-2	Benzene		40	
79-01-6	Trichloroethene		42	
78-87-5	1,2-Dichloropropane		41	
75-27-4	Bromodichloromethane		48	
10061-01-5	cis-1,3-Dichloropropene		44	
108-10-1	4-Methyl-2-pentanone		42	
108-88-3	Toluene		41	
10061-02-6	trans-1,3-Dichloropropene		46	
79-00-5	1,1,2-Trichloroethane		42	
127-18-4	Tetrachloroethene		54	
591-78-6	2-Hexanone		60	
124-48-1	Dibromochloromethane		59	
106-93-4	1,2-Dibromoethane		53	
108-90-7	Chlorobenzene		55	
100-41-4	Ethylbenzene		54	
1330-20-7	Xylene (Total)		170	

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

EPA SAMPLE NO.

LCS-73823

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1774 Mod. Ref No.: _____ SDG No.: SM1774
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-73823
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0715.D
 Level: (TRACE/LOW/MED) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 09/23/2013
 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		53	
75-25-2	Bromoform		48	
98-82-8	Isopropylbenzene		56	
79-34-5	1,1,2,2-Tetrachloroethane		45	
541-73-1	1,3-Dichlorobenzene		57	
106-46-7	1,4-Dichlorobenzene		56	
95-50-1	1,2-Dichlorobenzene		56	
96-12-8	1,2-Dibromo-3-chloropropane		52	
120-82-1	1,2,4-Trichlorobenzene		56	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		45	
110-82-7	Cyclohexane		41	
79-20-9	Methyl acetate		45	
108-87-2	Methylcyclohexane		38	

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

EPA SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1774 Mod. Ref No.: _____ SDG No.: SM1774
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1774-01C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0719.D
 Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2013
 % Moisture: not dec. Date Analyzed: 09/23/2013
 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		1.6	
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		25	
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		6.4	
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		200	
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		1.0	U
106-93-4	1,2-Dibromoethane		1.0	U
108-90-7	Chlorobenzene		1.0	U
100-41-4	Ethylbenzene		1.0	U
1330-20-7	Xylene (Total)		1.0	U

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

EPA SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1774 Mod. Ref No.: _____ SDG No.: SM1774
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1774-01C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0719.D
 Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2013
 % Moisture: not dec. Date Analyzed: 09/23/2013
 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.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1774 Mod. Ref No.: _____ SDG No.: SM1774
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1774-02C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0718.D
 Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2013
 % Moisture: not dec. Date Analyzed: 09/23/2013
 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)

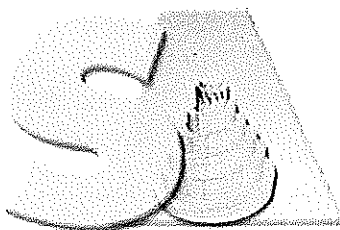
CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		1.0	U
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone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

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

EPA SAMPLE NO.
EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: M1774 Mod. Ref No.: _____ SDG No.: SM1774
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1774-02C
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0718.D
 Level: (TRACE/LOW/MED) LOW Date Received: 09/20/2013
 % Moisture: not dec. Date Analyzed: 09/23/2013
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

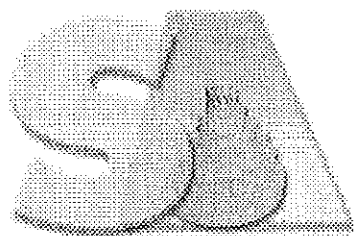
CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
100-42-5	Styrene		1.0	U
75-25-2	Bromoform		1.0	U
98-82-8	Isopropylbenzene		1.0	U
79-34-5	1,1,2,2-Tetrachloroethane		1.0	U
541-73-1	1,3-Dichlorobenzene		1.0	U
106-46-7	1,4-Dichlorobenzene		1.0	U
95-50-1	1,2-Dichlorobenzene		1.0	U
96-12-8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



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Sample Data ***

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL** Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE** Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA** Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX** Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS** Matrix Spike.
- MSD** Matrix Spike Duplicate
- DUP** Duplicate analysis
- SD** Serial Dilution
- PS** Post-digestion or Post-distillation spike. For metals or inorganic analyses

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/24/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: M1774-01

Project: Mr. C's Dry Cleaning

Collection Date: 09/19/13 11:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	400		4.0	mg/L CaCO3		109/24/2013 10:25	73847
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.4		1.0	S.U.		109/20/2013 17:38	R76703

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/24/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: M1774-02

Project: Mr. C's Dry Cleaning

Collection Date: 09/19/13 11:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	400		4.0	mg/L CaCO3		109/24/2013 10:28	73847
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.1		1.0	S.U.		109/20/2013 17:41	R76703

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: M1774

SM2340_W

Project: Mr. C's Dry Cleaning

SM 2340B -- HARDNESS by Calculation

Sample ID: MB-73847	Samp Type: MBLK	Test Code: SM2340_W	Prep Date: 09/23/13 10:00	Run ID: OPTIMA2_130924A
Client ID: MB-73847	Batch ID: 73847	Units: mg/L CaCO3	Analysis Date: 09/24/13 10:18	SeqNo: 1974960
Analyte	Result	MDL	SPK Ref Val	%REC
Hardness, Ca/Mg (As CaCO3)	ND	0.30		
			LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Attachment C
Summary of Site Utility Costs and Projections
January to December 2013

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs
NYSDEC Work Assignment #DC13.02.01.01
12 Months of System Operation and Maintenance
September 2013 Report

Utility Provider	Account #	E&E Cost Center	Description	Utility Budget:												Electric:	Telephone:	Gas	Total:
				Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012				
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 1,895.55	\$ 1,212.17	\$ 1,531.43	\$ 1,325.29	\$ 748.78	\$ 864.51										
New York State E&G	176-311-11-015900-18		Agway Site - Electric	\$46.63	\$ 27.50	\$ 185.46	\$ 216.03	\$ 84.93	\$ 990.20										
National Fuel Gas	6819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$ 1,742.18	\$ 1,239.67	\$ 1,716.89	\$ 1,541.32	\$ 833.71	\$ 754.71										
Totals				\$ 707.56	\$ 1,521.39	\$ 37.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Totals				\$ 30.87	\$ 32.95	\$ 37.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals				\$ 738.43	\$ 1,554.34	\$ 37.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Electric (Both sites)				\$ 9,406.68															
Natural Gas				\$ 752.46															
Grand Total - NYSE&G/National Fuel Gas Costs To Date				\$ 10,159.14															

Phone Utility Provider	Phone #	E&E Cost Center	Location Description	Estimated Reading												Ave. /Month			
				Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012				
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 34.31	\$ 93.35	\$ 35.67	\$ 36.15	\$ 35.12	\$ 35.12										
Totals				\$ 36.57															
Grand Total - Verizon Costs to Date				\$ 273.17															
Grand Total All Utilities To Date				\$ 10,432.31															

				Notes:															
				Overbilled natural gas costs - no charges															
				Estimated Reading															
				\$ 333.44												in red -adjusted billing			

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

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

September 2013 Report

	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:	Budget Remaining:	
January-13	672	576	85.71%	13.8%	Mid January	Electric:	\$6,393.32
February-13	672	584	88.39%	8.7%	Mid February	Telephone:	\$266.83
March-13	720	720	100.00%	5.6%	Cold March	Gas	\$367.54
April-13	792	792	100.00%	10.7%	Mid April	Total:	\$7,027.69
May-13	672	672	100.00%	9.6%	Normal May		
June-13	672	672	100.00%	7.5%	Wet June		
July-13	1056	648	61.36%	8.4%	Stripper leaddownflow bag filter installed		
August-13	528	528	100.00%	7.6%	Normal August		
September-13	600	600	100.00%	7.5%	Dry September		
October-13			#DIV/0!				
November-13			#DIV/0!				
December-13			#DIV/0!				
Totals to Date	6384	5802	90.88%				

* 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 76 gpm, as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.

Monthly Average Costs

Mr. C's Electric	\$	1,175.84					
Agway Electric	\$	-					
Mr. C's Gas	\$	83.61					
Mr. C's Telephone	\$	68.28					
Avg. Utility Cost Total	\$	1,327.73	times	12 Month Estimate			\$17,260.54

ATTACHMENT C