ecology and environment engineering, p.c.



International Specialists in the Environment

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January 8, 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 December 2012 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

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

In review of the on-site treatment system operations, monitoring and maintenance for December 2012, 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 <u>Attachment A</u> for 12/3/12, 12/10/12, 12/17/12, 12/24/12, and 12/31/12. Based on the inspection results performed by IEG, the remedial treatment system had a 100.00% operational up-time (<u>Table 1</u>) and the treatment of contaminated groundwater totaling of 391,683 gallons (<u>Table 2</u>) for December 2012.
- The remedial treatment system maintained a 100% operational uptime. Pumps PW-6 and PW-7 were replaced with new pumps on 11/15/12. The pump for PW-8 was installed December 10, 2012. PW-6 was shutdown, but replaced with old pump on December 10, 2012, to continue operations.
- Initial sampling occurred on December 20, 2012 with the analytical results received on December 27, 2012. The results of the sampling indicated no compliance issues with the effluent discharge requirements for Tetrachloroethene (PCE) or any other contaminants on the SPDES Equivalency Permit. The PCE effluent results for December 2012 were "non-detect" (<1.0 ug/L).

Mr. William Welling, Project Manager January 8, 2013 Page 2 of 3

- The analytical results revealed the influent concentration to be 953.7 μg/L or 953.7 ppb, and 4.9 μg/L or 4.9 ppb of treated effluent. PCE effluent concentrations were "non-detect" (< 1 μg/L or < 1 ppb) which is under the 10 μg/L or 10 ppb limit. The summary of influent and effluent contaminant concentrations for the December 2012 sampling event is presented in <u>Table 4</u>.
- The cleanup efficiency for the contaminants of concern at the site during the reporting / operating period 12/3/12 to 12/31/12 was 100.0%. The air stripper unit on the Mr. C's property is currently in compliance and SAI continues to provide analytical data to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. The summary of Effluent Discharge Criteria & Analytical Compliance Results for December 2012 is presented in Table 3.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 3.1 lbs. of targeted contaminants from the groundwater below the site in the month of December 2012. The calculations and data for the month are presented in <u>Table 5</u>.

Mr. C's Site - Updated 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 – DelTora LLC – Point of Contact - Mr. Paul Bendrowski – 231-313-1954 (Traverse City, MI). Property Lease – Intrepid Automotive Partners – Dave Kern – 716-481-5703 (East Aurora, NY).

Agway Site Remedial Information

- The Agway facility treatment unit was turned off in December 2011.
- Contact again was made on December 13, 2012, from (Liz Megan, Architect, 716-901-3029) regarding the redevelopment of the former Agway for a single story building without a basement. Information forthcoming on conceptual design for the Agway site. Contact information was passed onto NYSDEC PM regarding the discussion.

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

- Performed annual SSDS inspections at the 1st Presbyterian Church on December 3, 2012. No current operational issues noted. All systems are fully operational.
- Draft SOP sampling procedure submitted to NYSDEC PM, Region 9 NYSDEC and NYSDOH contact for review and comment.

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Mr. William Welling, Project Manager January 8, 2013 Page 3 of 3

Baseline Sampling - Bioaugmentation Work

- Baseline sampling for the bioaugmentation "pilot" study was performed on November 2, 2012 at four monitoring well location around the Mr. C's site.
- Analytical results due at the end of November and evaluated for incorporation in the procurement document for subcontractor installation.
- Procurement to be performed in January 2013. Bioaugmentation field work injections to be performed in April 2013.
- Monthly monitoring and analyses to be performed for twelve months to evaluate the effectiveness of the "pilot" installation on the groundwater from the local area monitoring wells.

Mr. C's and Agway Energy Usage Information

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

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 December 2012 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,

Ecology and Environment Engineering, P. C.

Michael J. Steffan.

Michael G. Steffan

Project Manager

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

D. Iyer, IEG – w/attachments CTF- 002700.DC13.02.01.01

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

Month	Reporting Hours	Operational Up- time
(Up-time from inception to 1/4/12)	79,183.50	96.27%
January 4, 2012 - February 2, 2012	696	100.00%
February 2, 2012 - March 5, 2012	768	100.00%
March 5, 2012 - April 4, 2012	720	100.00%
April 4, 2012 - April 30, 2012	624	100.00%
April 30, 2012 - June 6, 2012	888	100.00%
June 6, 2012 - July 2, 2012	624	100.00%
July 2, 2012 - July 30, 2012	672	100.00%
July 30, 2012 - September 4, 2012	864	100.00%
September 4, 2012 - October 1, 2012	648	100.00%
October 1, 2012 - November 7, 2012	888	100.00%
November 7, 2012 - December 3, 2012	624	100.00%
December 3, 2012 - December 31, 2012	672	100.00%
Total Hauss from System Startum 12/02!	97 971 50	

Total Hours from System Startup '2/02' 87,871.50

Average Operational Up-time from startup =

Average Operational Up-time for 2012 =

96.63%

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 2011	9/5/02 - 12/4/12	118,436,077
January 2012 ³	1/5/12 - 2/2/12	451,020
February 2012 ³	2/2/12 - 3/5/12	422,955
March 2012 ³	3/5/12 - 4/4/12	357,397
April 2012 ³	4/4/12 - 4/30/12	208,864
May 2012	4/30/12 - 6/6/12	348,980
June 2012	6/6/12 - 7/2/12	236,975
July 2012	7/2/12 - 7/30/12	240,837
August 2012	7/30/12 - 9/4/12	268,929
September 2012	9/4/12 - 10/1/12	211,231
October 2012	10/1/12 - 11/7/12	346,225
November 2012	11/7/12 - 12/3/12	325,770
December 2012	12/3/12-12/31/12	391,683
	Gallons Treated in 2012	3,810,866
Total Gallo	ns Treated To Date:	122,246,943

NOTES:

- System operated by Tyree Organization Ltd. From 9/02 9/03.
 System operated by O&M Enterprises from 10/03 7/07.
 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	December 27, 2012 - Effluent Analytical Values Compliance
Flow	N/A	gpd	13,989
pН	6.0 - 9.0	standard units	8.7
1,1 Dichloroethene	10	μg/L	1.0 U
I,1 Dichloroethane	10	μg/L	1.0 U
cis-1,2-dichloroethene	10	μg/L	1.0 U
Trichloroethene	10	μg/L	1.0 U
Tetrachloroethene	10	μg/L	1.0 U
Vinyl Chloride	10	μg/L	1.0 U
Benzene	5	μg/L	1.0 U
Ethylbenzene	5	μg/L	1.0 U
Methylene Chloride	10	μg/L	1.0 U
1,1,1 Trichloroethane	10	μg/L	1.0 U
Toluene	5	μg/L	1.0 U
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	1.0 U
o-Xylene ²	5	μg/L	NA NA
m, p-Xylene ²	10	μg/L	NA
Total Xylenes	NA	ug/L	1.0 U
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	440
Cyanide, Free	10	րջ/L	NA ⁹

NOTES:

- 1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.

 2. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.

 3. Shaded cells indicate that analytical value exceeds the "Daily Maximum."

 4. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.

 5. "NA" indicates that analyses were not performed and data is unavailable.

 6. Average flows based on effluent readings taken December 3, 2012 through December 31, 2012. Total gallons: 391,683 divided by 28 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.

Table 4

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

December 2012 VOC Analytical Summary

	Ba	sed on the 1	12/27/12 Effi	uent Sampl	ing Results
Compound	Influ Concenti		Efflu Concent		Cleanup Efficiency**
•		(ug/L)		/L)	(%)
Acetone	ND (<50)	U	4.9	J	NA
Benzene	ND (<10)	U	ND (<1.0)	U	NA
2-Butanone	ND (<50)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	25		ND (<1.0)	U	100.00%
Chloroform	ND (<10)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<10)	U	ND (<1.0)	U	100.00%
Methyl tert-butyl ether (MTBE)	6.7	J	ND (<1.0)	U	100.00%
Tetrachloroethene	860.0		ND (<1.0)	U	100.00%
Toluene	ND (<10)	U	ND (<1.0)	U	NA
Trichloroethene	62.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<10)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<10)	U	ND (<1.0)	U	NA
1,1,1-Trichloroethene	ND (<10)	U	ND (<1.0)	U	NA
Cyclohexane	ND (<10)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<10)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<10)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<10)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<10)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<10)	U	ND (<1.0)	U	NA
December 2012 TOTALs (in ug/L)	= 953.7		4.90		99.49%

Notes:

- 1. "NA" = Not applicable
- 2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
- 3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
- 4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
- 5. "D" indicates the compound concentration was obtained form 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	Effluent VOCs	VOCs Removed				
		(µg/L)	(μg/L)	(lbs.)				
Total pounds	Total pounds of VOCs removed from inception to December 2011 =							
January 2012	1/4/12 - 2/2/12	2829.0	2.90	10.77				
February 2012	2/2/12 - 3/5/12	809.7	3.77	3.03				
March 2012	3/5/12 - 4/4/12	653.0	3.30	1.94				
April 2012	4/4/12 - 4/30/12	602.0	2.10	1.05				
May 2012	4/30/12 - 6/6/12	431.5	1.52	1.25				
June 2012	6/6/12 - 7/2/12	690.1	1.80	1.36				
July 2012	7/2/12 - 7/30/12	615.6	0.56	3.10				
August 2012	7/30/12 - 9/4/12	266.8	0.00	0.60				
September 2012	9/4/12 - 10/1/12	153.5	0.00	0.27				
October 2012	10/1/12 - 11/7/12	661.0	0.00	1.91				
November 2012	11/7/12 - 12/3/12	886.1	0.00	2.41				
December 2012	12/3/12 - 12/31/12	953.7	4.90	3.10				
	1,556.45							

HISTORICAL NOTES:

- 1. Calculations are based on monthly water samples and assumes samples are representative of the entire reporting

- 2. Calculations assume that non-detect values = 0 ug/L.
 3. Total VOCs summations include estimated "J" values.
 4. Calculations are based on effluent totalizer readings.
 5. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

Total pounds of VOCs removed in 2012 = 30.79

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

CONVERSIONS:

1 pound = 453.5924 grams

1 gallon = 3.785 liters

Based on the Analytical Results from Each Month:

Pounds of VOCs removed calculated by the following formula:

(VOCs Influent - VOCs Effluent) (ug/L) · (1g/10 dug) · (1 lb/453.5924 g) · (Monthly process water) (gal) · (3.785 L/gallon)

Attachment A IEG Weekly Inspection Reports December 2012

Including:

12/3/12

12/10/12

12/17/12

12/24/12

12/31/12

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	3-Dec-12		ACTIVITIES:	Site Inspect	ion		
INSPECT	TION PERSONNEL:	R. Allen		OTHER PERS	ONNEL:		
WEATHE	R CONDITIONS: C	loudy, cool				OUTSIDE TEMPER	RATURE (° F): 44
	LL PUMPS OPERATIN		YES:	_ NO:	<u>√</u> !	f "NO", provide expir	nation below
			IOC WATER I EV	CL DEADINGS	ON CONTROL PANE		
		1	_			off: √	6 tt
RW-1	ON:	OFF: \(\frac{1}{\psi} \)	5_ft	PW-5	ON:		
PW-2	ON:	0FF: <u>√</u> _	5 ft	PW-6	ON:		
PW-3	on: 1	OFF:	7ft	PW-7	ON:	OFF: <u>√</u>	ft
PW-4	ON:	OFF:	7 ft	PW-8	on:	OFF:	19 ft
	EQUAL	IZATION TANK:	3 ft	Last	Alarm D/T/Condition:	11/20/12 Air Stripper L	ow Level
	NOTES:						
INFLL	JENT FLOW RATE:	15	gpm	INFLUENT TO	TALIZER READING:	5,563,80	4.0 gallons
SE	QUESTERING AGEN	T DRUM LEVEL:	30 Inches	(x 1.	7=) AMOUNT OF A	GENT REMAINING:	51 gallons
s	EQUESTERING AGE	NT FEED RATE:	5.0 ml/min		METERING	PUMP PRESSURE:	2.0 psl
AND SECURITY STATE S	BAG FILTER PRES	SURES:	Top	Bottom 0 psi	RIGHT:	Top 6	Bottom 0 psl
INFL	JENT FEED PUMP IN	 USE: #1	#:	2	INFLUENT PUMP PR	ESSURE:	12 psi
ΔIR	STRIPPER BLOWER	 IN USE: #1		 2 √	AIR STRIPPER PR	ESSURE:	18.0 In. H₂O
	IPPER DIFFERENTIA		•		DISCHARGE PR		3.8 In. H ₂ O
EFFLUI	ENT PUMP IN USE:	#1	 #2 √	EFFLU	JENT FEED PUMP PR	ESSURE:	3.0 psl
EFFLU	IENT FLOW RATE:	114 gpm	EFFLUENT	– TOTALIZER R	EADING: 69	,623,624	99510 gallons
ARE B	UILDING HEATERS IN	USE? YES:	NO	:		INSIDE TEMPE	RATURE (° F): 67
ıs su	IMP PUMP IN USE:	YES: <u>√</u>	NO:	ARE ANY	LEAKS PRESENT?	YES:	NO:√
1	R LEVEL IN SUMP:				AN & ORGANIZED?	YES: √	NO:

NYSDEC Site #90150157

SITE INSPECTION FORM

SAMPLES COLLECTED?	YES:√	NO:					
		Sample ID	Time of Sampling	рН	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFL	.UENT:	INF	1:30 PM	7.44	5.92	15.6	1888
AIR STRIPPER EFFL	.UENT:	EFF	1:30 PM	8.60	7.03	16.7	2300
IS THERE EVIDENC	E OF TAMPE	ERING/VANDALIS	SM OF WELLS: ?	YES:	NO:	√	
			ES INSPECTED?	YES: √	NO:		
			ES INSPECTED?	YES: √	-		
IS WATER PRESENT I				YES:		1	
			ox ID and description of a	any corrective meas			
W-4 has collapsed inner ring.							
ther Actions:							
ther Actions:							
other Actions:							
			AGWAY		PRESSURE:		psi
	ACUUM:	in.	AGWAY	AIR F			psi
SYSTEM VA	ACUUM:	in. psi	AGWAY H ₂ O	AIR F	n		
SYSTEM VA	acuum: scfm scfm	in. psi psi	AGWAY H₂O SP-5	AIR F	1		psi
SYSTEM VA SP-1: SP-2:	acuum: scfm scfm	in. psi psi	AGWAY H ₂ O SP-5 SP-6	AIR F	1 1		psi psi
SYSTEM VA SP-1: SP-2: SP-3: SP-4:	scfm_scfm_scfm_scfm_scfm_scfm_scfm_scfm_	ln. psi psi psi	AGWAY H ₂ O SP-5 SP-6 SP-7 SP-8	AIR F scfn scfn scfn	1 1 1 1 1		psi psi psi psi
SYSTEM VA SP-1: SP-2: SP-3: SP-4:	scfm_scfm_scfm_scfm_scfm_scfm_scfm_scfm_	in. psi psi psi psi	AGWAY H ₂ O SP-5 SP-6 SP-7	AIR F scfn scfn scfn	1 1 1 1 1		psi psi psi psi
SP-1: SP-2: SP-3: SP-4: INCLUDE	scfm_scfm_scfm_scfm_scfm_scfm_scfm_scfm_	ln. psi psi psi	AGWAY H ₂ O SP-5 SP-6 SP-7 SP-8	AIR F scfn scfn scfn	1 1 1 1 1		psi psi psi psi
SYSTEM VA SP-1: SP-2: SP-3: SP-4:	scfm_scfm_scfm_scfm_scfm_scfm_scfm_scfm_	in. psi psi psi psi	AGWAY H ₂ O SP-5 SP-6 SP-7 SP-8	AIR F scfn scfn scfn	1 1 1 1 1		psi psi psi psi

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	10-Dec-12	ACTIVITIES:	Site inspection		
INSPECT	TION PERSONNEL: R. Allen		OTHER PERSONNEL:		
WEATHE	ER CONDITIONS: Cloudy, rain, cool			OUTSIDE TEMPERA	TURE (° F): 46
	LL PUMPS OPERATING IN AUTO: PW-8 is OFF due to maintenance problem	YES:	NO:√	if "NO", provide explana	ation below
•					
	PROVI	IDE WATER LEV	EL READINGS ON CONTR	ROL PANEL	
RW-1	on: off:	5ft	PW-5 ON:	OFF: <u>√</u> _	5 ft
PW-2	on: off: √	7ft	PW-6 ON:_	√ OFF:	14 ft
PW-3	ON: OFF:	7ft	PW-7 ON:_	OFF: <u>√</u> _	ft
PW-4	ON: OFF:	8_ft	PW-8 ON:_		19ft
	EQUALIZATION TANK:	<u>3</u> ft	Last Alarm D/T/C	Condition: 11/20/12 Air Stripper Low	v Level
	NOTES: Turned OFF PW-6 du	e to lack of cycli	ng.		
INFL	UENT FLOW RATE: 14	gpm	INFLUENT TOTALIZER F	READING: 5,704,178.	<u>,0 </u>
SE	EQUESTERING AGENT DRUM LEVEL:	22 Inches	(x 1.7=) AMO	OUNT OF AGENT REMAINING:	37.5 gallons
:	SEQUESTERING AGENT FEED RATE:	8.0 mt/mln		METERING PUMP PRESSURE: _	3.0 psi
	,	Top	Bottom	Top	Bottom
	BAG FILTER PRESSURES:	LEFT: 0	0 psl R	RIGHT: 22 - 6	0 psi
INFL	UENT FEED PUMP IN USE: #1	<u>√</u> #:	2INFLUENT	PUMP PRESSURE:	psi
AIR	STRIPPER BLOWER IN USE: #1		2 AIR STR	RIPPER PRESSURE: 18	3.0in. H₂O
AIR STE					.7 in. H₂O
EFFLU	ENT PUMP IN USE: #1		EFFLUENT FEED		3.0 psl
	ENT PUMP IN USE: #1	#2 <u>√</u>		PUMP PRESSURE:	
EFFL	ENT PUMP IN USE: #1	#2 √ EFFLUENT	EFFLUENT FEED T TOTALIZER READING:	PUMP PRESSURE:	3.0 psi 186190 gallons
EFFLO ARE B	ENT PUMP IN USE: #1	#2 EFFLUENT	EFFLUENT FEED T TOTALIZER READING:	69,708,450	3.0 psi 186190 gallons

NYSDEC Site #90150157

SITE INSPECTION FORM

			اد. ما						
SAMPLES COLLECTED?	YES:	. NO:	<u> </u>						
		Sample ID	Time of Sampling		pН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER I	NFLUENT:		·						
AIR STRIPPER E	FFLUENT:							<u> </u>	
			<u> </u>				٦	_ _ _ _ _ _ _ _ _	
IS THERE EVID	ENCE OF TAMPERI			YES:	1	-	٧	,	
	,		LES INSPECTED?	YES:	1	-		•	
	•		KES INSPECTED?	YES:	1	•		i	
IS WATER PRESE	NT IN ANY MANHOL			YES:	hio mas			•	
PW-4 has collapsed inner ri	-		ox ID and description of		140 IIIA 4 :	enica neiviti			
C 11-4 Hgs Collabsed Hiller III	1191								
					- — —				
INCL	UDE REMARKS & D	ESCRIBE AN	Y OTHER SYSTEM MAI	NTENANC	E PERF	ORMED ON	MR. C's S	ITE	
Remarks:									
								<u></u>	,
Other Actions: Changed	i bag filters.								
PW-8 - r	eplaced well pump	with stronger	unit. Test OK.						
PW-6 -	replace well pump	with old wo	rking unit. Test - doe	s not cycl	e down	. Leave pu	mp in we	Il turned OFF.	
			AGWAY		<u> </u>				
					AID I	PRESSURE:		ps	g į
	I VACUUM:		SP-5		scfr			psi	
SP-1:	_	-							
SP-2:		_	SP-6		scfr			_psi	
SP-3:	scfm	psi	SP-7		scfr			_psi	
SP-4:	scfm	_ psi	SP-8		8cfi 	n 		_psl 	
INCL	UDE REMARKS & D	ESCRIBE AN	IY OTHER SYSTEM MA	NTENANC	E PERI	ORMED ON	AGWAY:	SITE	
Remarks: System	is OFF until further	instructions.				*******			
						 			
Other Actions:									

10-Dec-12

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	17-Dec-	12	ACTIVITIES:	Site Inspection	on			
INSPEC	TION PERSONNEL:	R. Allen		OTHER PERSO	NNEL:			
WEATH	R CONDITIONS:	Cloudy, cool			<u> </u>	OUTSIDE TEMPER	ATURE (° F):	45
ARE WE		TING IN AUTO:		NO:	<u>√</u>	f "NO", provide expla	nation below	
	1 11-7 IS OFF UNE (o maniconanto problem						
	***************************************	PROVI	DE WATER LEV	EL READINGS (N CONTROL PANE	L		;
RW-1	ON:	off: √	8 ft	PW-5	ON:	OFF:√	7	ft
PW-2	ON:	off: <u>√</u> _	<u>6</u> ft	PW-6	on: \(\frac{1}{2} \)	OFF:	20	ft
PW-3	ON:	0FF: <u>√</u>	3ft	PW-7	ON:	0FF: <u>√</u>	4	ft
PW-4	ON:	OFF: √ _	7ft	PW-8	on:	OFF:	7	ft
	EQL	IALIZATION TANK:	_ 5 ft	Last	Narm D/T/Condition:	12/14/12 Air Stripper L	ow Air	
	NOTES:							
 -						E 02E 00	 40	-
INFL	UENT FLOW RATE	5	gpm	INFLUENT TO	I ALIZEK READING:	<u>5,825,98</u>		 8au∆119
Si	EQUESTERING AG	ENT DRUM LEVEL:	14 inches	(x 1.7	=) AMOUNT OF A	AGENT REMAINING:	24	gailons
	SEQUESTERING A	GENT FEED RATE:	6.0 ml/min		METERING	PUMP PRESSURE:	2.0	psl
			Тор	Bottom		Тор	Bottom	
L	BAG FILTER PR	ESSURES:	LEFT: <u>0</u>	0 psi	RIGHT:	6	<u> </u>	psi
INFL	UENT FEED PUMP	IN USE: #1	<u>√</u> #	2	NFLUENT PUMP PR	RESSURE:	12	psi
AIR	STRIPPER BLOW	 ER IN USE: #1	#		AIR STRIPPER PE	RESSURE:	16.0	In. H₂O
		TIAL PRESSURE:						in. H₂O
					ENT SEED DINO DE	essure	3.0	
	ENT PUMP IN USE				EADING: 69	RESSURE: 3.781.006		gallons
EFFL	UENT FLOW RATE	: 114 gpm	<i>ETFLUEN</i>					
ARE E	UILDING HEATER	S IN USE? YES:	<u>√</u> no):		INSIDE TEMPE	RATURE (° F):	66
is s	UMP PUMP IN USE	: YES: √	NO:	ARE ANY				,
WATI	R LEVEL IN SUMP	: <u>6.0</u> In.	TREATMENT	BUILDING CLE	AN & ORGANIZED?	YES:	NO:	

NYSDEC Site #90150157

SITE INSPECTION FORM

MPLES COLLECTED?							<u>_17-D</u>
	YES: 1	√ NO:					
		Sample ID	Time of Sampling	рН	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER IN	IFLUENT:	INF	2:30 PM	7,55	5.82	12.3	2011
AIR STRIPPER EI	FLUENT:	EFF	2:30 PM	8.73	5.76	13.2	2355
IS THERE EVIDE	NCE OF TAMP	PERING/VANDALIS			•		
	٠	WERE MANHOLE		YES: <u>√</u>		·	
		ELECTRICAL BOXE		YES: <u>√</u>			
IS WATER PRESEN				YES:			
			x ID and description of a		ures below:		
has collapsed inner rin	9						
			AGWAY				
SYSTEM	VACUUM:	fn.		AIR P	RESSURE:		ps
SYSTEM					,		psi psi
	scfm	psi	H ₂ O	scfm	,		
SP-1:	scfm_	psi psi	H ₂ O 8P-5	scfm			psi
SP-1: SP-2:	scfm_	psi psi	H ₂ O SP-5 SP-6	scfm			psi psi
SP-1: SP-2: SP-3: SP-4:	scfmscfmscfmscfm	psi psi psi psi	H ₂ O SP-5 SP-6 SP-7 SP-8	sofm sofm sofm sofm			psi psi psi psi
SP-1: SP-2: SP-3: SP-4:	sofm sofm sofm sofm	psi psi psi psi	H ₂ O SP-5 SP-6 SP-7	sofm sofm sofm sofm			psi psi psi psi
SP-1: SP-2: SP-3: SP-4:	sofm sofm sofm sofm	psi psi psi psi	H ₂ O SP-5 SP-6 SP-7 SP-8	sofm sofm sofm sofm			psi psi psi psi

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	24-Dec-	12	ACTIVITIES:	Site Inspec	tion		
INSPECT	ION PERSONNEL	: R. Allen		_OTHER PERS	SONNEL:		
WEATHE	R CONDITIONS:	Cloudy, cold			<u> </u>	OUTSIDE TEMPER	ATURE (° F):
		ATING IN AUTO:		_ NO:	<u>√</u>	if "NO", provide expla	nation below
_							
		PRO	OVIDE WATER LEV	EL READINGS	ON CONTROL PANE	iL .	
RW-1	ON:	_ OFF:		PW-5	ON:	OFF:√	7ft
PW-2	ON:	off: <u>√</u>	ft	PW-6	on:√	OFF:	ft
PW-3	ON:	off: <u>√</u>	ft	PW-7	ON:	off: √	<u>5</u> ft
PW-4	ON:	OFF: ✓	<u>8</u> ft	PW-8	ON:	OFF: √	7ft
	EQU	JALIZATION TANK:	ft	Las	t Alarm D/T/Condition:	12/14/12 Air Stripper L	ow Air
	NOTES:						
INFLU	ENT FLOW RATE	:	3gpm 	INFLUENT TO	OTALIZER READING:	5,960,04	4.0 gallons
SE	QUESTERING AG	ENT DRUM LEVEL:	9 Inches	(x 1	.7=) AMOUNT OF	AGENT REMAINING:	15 gallons
s	EQUESTERING A	GENT FEED RATE:	8.0 ml/min		METERING	9 PUMP PRESSURE:	3.0 psi
				Bottom		1	Bottom
	BAG FILTER PR	ESSURES:	LEFT: 0	ps	I RIGHT:	18 - 6	0psl
INFL	IENT FEED PUMP	IN USE; #1	<u>√</u> #	2	INFLUENT PUMP PI	RESSURE:	12 psi
ΔIR	STRIPPER BLOW	ER IN USE: #1	#	12 V	AIR STRIPPER PI	RESSURE:	16.0 In. H₂O
						RESSURE:	
		: #1	#2 V		IJENT FEFO PLIMP PL	RESSURE:	3.0 psi
	ENT PUMP IN USE IENT FLOW RATE				READING: 6		340300 gallons
ARE B	JILDING HEATER	S IN USE? YES:):		INSIDE TEMPEI	RATURE (° F): 57
is su	IMP PUMP IN USE	: YES: √	NO:	ARE AN	Y LEAKS PRESENT?	YES:	NO:√
WATE	R LEVEL IN SUMF	: 6,5 in.	TREATMENT	BUILDING CL	EAN & ORGANIZED?	YES:	NO:

NYSDEC Site #90150157

SITE INSPECTION FORM

AMPLES COLLECTED?		NO:		рН	Turbidity	Temp.	Sp, Cond.
		Sample ID	Time of Sampling	рп	luibluity	Tempa	op, cond.
AIR STRIPPER IN	NFLUENT:						
AIR STRIPPER EI	FFLUENT:						
	NCE OF TAMPERI		I DE WELLS: 2	YES:	NO:	√	
15 THERE EVIDE			S INSPECTED?	YES: √	_	,	•
			S INSPECTED?	YES: $\sqrt{}$	'		=
IS WATER PRESEN				YES:		1	•
IS WATER PRESEN			ID and description of				•
/-4 has collapsed inner rin	- '						
-4 Has Collapsed littlet Hit	a						
			or.				
her Actions: Installed s	seasonal vent cove	er over man door	or.				
her Actions: Installed s	seasonal vent cove	er over man door	or. doors.				
her Actions: Installed s Shoveled Changed	seasonal vent cove	er over man door eatment Room	or. doors. AGWAY		All and a second a		
ther Actions: Installed s Shoveled Changed	seasonal vent cover snow in front of Trail bag filters.	er over man door reatment Room	or. doors. AGWAY	AIR	PRESSURE:		p:
Shoveled Changed	seasonal vent cover snow in front of Trill bag filters.	er over man door eatment Room in. h	AGWAY	AIR sc	<i>PRESSURE:</i> fm		p:
her Actions: Installed s Shoveled Changed SYSTEM SP-1:	seasonal vent cover snow in front of Tribag filters. VACUUM: scfm scfm	er over man door reatment Room In. h	AGWAY	AIR sc	<i>PRESSURE:</i> fm		psi psi
Shoveled Changed System SP-1: SP-2:	seasonal vent cover snow in front of Trick is bag filters. VACUUM: scfm scfm	er over man door reatment Room In. h	AGWAY SP-5 SP-6	AIR sc	<i>PRESSURE:</i> fm fm		psi psi
Shoveled Changed System SP-1: SP-2: SP-3: SP-4:	seasonal vent cover snow in front of Trul bag filters. VACUUM: scfm scfm scfm scfm	in. h	AGWAY AGWAY SP-5 SP-6 SP-7 SP-8	### AIR \$C \$C \$C \$C \$C \$C \$C \$	PRESSURE: fm fm fm		psi psi psi psi
Shoveled Changed System SP-1: SP-2: SP-3: SP-4:	seasonal vent cover snow in front of Tribag filters. VACUUM: scfm scfm scfm scfm	in. h	AGWAY AGWAY SP-5 SP-6 SP-7	### AIR \$C \$C \$C \$C \$C \$C \$C \$	PRESSURE: fm fm fm		psi psi psi psi
Shoveled Changed System SP-1: SP-2: SP-3: SP-4:	seasonal vent cover snow in front of Trul bag filters. VACUUM: scfm scfm scfm scfm	in. h	AGWAY AGWAY SP-5 SP-6 SP-7 SP-8	### AIR \$C \$C \$C \$C \$C \$C \$C \$	PRESSURE: fm fm fm		psi psi psi psi
Shoveled Changed System SP-1: SP-2: SP-3: SP-4:	seasonal vent cover snow in front of Tribag filters. VACUUM: scfm scfm scfm scfm	in. h	AGWAY AGWAY SP-5 SP-6 SP-7 SP-8	### AIR \$C \$C \$C \$C \$C \$C \$C \$	PRESSURE: fm fm fm		psi psi psi psi

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 31-Dec-12	ACTIVITIES:	Site Inspection		
INSPECTION PERSONNEL: R. Allen		OTHER PERSONNEL: _		
WEATHER CONDITIONS: Cloudy, cold			OUTSIDE TEMPER	RATURE (° F):
ARE WELL PUMPS OPERATING IN AUTO: PW-6 is OFF due to maintenance proble		. № √	if "NO", provide expla	anation below
PROV	IDE WATER LEV	EL READINGS ON CONT	ROL PANEL	
RW-1 ON: OFF: √	8 ft		OFF: <u>√</u>	ft
	7ft	PW-6 ON:_	√ OFF:	ft
PW-3 ON: OFF: 1	7ft	PW-7 ON:		<u>5</u> ft
PW-4 ON: OFF: √	5ft	PW-8 ON:_	√ off:	ft
EQUALIZATION TANK:	3 _ft	Last Alarm D/T/s	Condition: 12/28/12 Air Stripper L	ow Level
NOTES:				
INFLUENT FLOW RATE: 40	gpm	INFLUENT TOTALIZER I	READING: 6,092,91	9.0 gallons
SEQUESTERING AGENT DRUM LEVEL:	2 Inches	(x 1.7=) AM	OUNT OF AGENT REMAINING:	3.5 gallons
SEQUESTERING AGENT FEED RATE:	8.0 ml/min	1	METERING PUMP PRESSURE:	4.0psi
BAG FILTER PRESSURES:	Top	Bottom O psi	Top RIGHT: 8	Bottom O psi
INFLUENT FEED PUMP IN USE: #1_	√ #	2INFLUENT	T PUMP PRESSURE:	11psl
AIR STRIPPER BLOWER IN USE: #1		2 √ AIR STI	RIPPER PRESSURE:	17.0 in. H ₂ 0
AIR STRIPPER DIFFERENTIAL PRESSURE:	0.002		HARGE PRESSURE:	4.0 In. H₂O
EFFLUENT PUMP IN USE: #1	#2 V	EFFLUENT FEEL	O PUMP PRESSURE:	3.0 psi
EFFLUENT FLOW RATE: 116 gpm	EFFLUEN	T TOTALIZER READING:	69,936,943	419150 gallons
ARE BUILDING HEATERS IN USE? YES:	√_ NO):	INSIDE TEMPE	FRATURE (° F):57
IS SUMP PUMP IN USE: YES: √	NO:	ARE ANY LEAKS P	RESENT? YES:	NO: √
WATER LEVEL IN SUMP: 7.0 In.	TREATMENT	BUILDING CLEAN & ORG	BANIZED? YES: √	NO:

NYSDEC Site #90150157

SITE INSPECTION FORM

SAMPLES COLLECTED?	YES:	NO:	Time of Sampling	pl	i Turbidity	Temp.	Sp. Cond.
AIR STRIPPER IN	FI UENT:	·					
AIR STRIPPER EF							
						w = .	
IS THERE EVIDER	NCE OF TAMPE	RING/VANDALISI	f of Wells: ?	YES:	NO:		
	V	VERE MANHOLE	S INSPECTED?	YES:	พо:		-
	WERE ELI	ECTRICAL BOXE	S INSPECTED?	YES:	NO:		-
IS WATER PRESENT				YES:	·		-
			ID and description of	any corrective	neasures below:		
PW-4 has collapsed inner ring	. Snow and ice	are covering most	MWs and UEs.				
Other Actions: Emptied re			emergency Redux ju and wash down wit				
			AGWAY				
SYSTEM	VAÇUUM:	in. H			IR PRESSURE:		psi
SP-1:			SP-5		scfm		_psi
SP-2:			SP-6		scfm		_psi
SP-3:	·				scfm		_psi
SP-4:	_		\$P-8		scfm		_psi
	OFF until furthe		OTHER SYSTEM MA	INTENANCE F	ERFORMED ON	AGWAY	SIIE
Other Actions:							

31-Dec-12

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 7-Jan-13	ACTIVITIES:	Site inspection		
INSPECTION PERSONNEL:	R. Allen	OTHER PERSONNEL:		
WEATHER CONDITIONS: Cloudy,	cold		OUTSIDE TEMPERATURE (° F):	<u>26</u>
ARE WELL PUMPS OPERATING IN AI		No:	If "NO", provide explanation below	
	PROVIDE WATER LEV	/EL READINGS ON CONTROL PA	NEL	
RW-1 ON: √ OFF:	6 ft	PW-5 ON:	off: √5	ft
PW-2 ON: √ OFF:		PW-6 ON: √		_ft
PW-3 ON: OFF:	√4 _ft	PW-7 ON:	OFF: √ 6	_ft
PW-4 ON: OFF:		PW-8 ON:	OFF: √ 5	_ft
EQUALIZATION	<i>n TANK</i> : 3 ft	Last Alarm D/T/Gonditio	on: 1/3/13 Air Stripper Low Level	
INFLUENT FLOW RATE:	10 gpm	INFLUENT TOTALIZER READIN	ig: 6,225,098.0	gallons
SEQUESTERING AGENT DRUM	LEVEL: 2 Inches	(x 1.7=) AMOUNT C	OF AGENT REMAINING: 3.5	_gallons
SEQUESTERING AGENT FEE	D RATE: 5.0 ml/min	METER	ING PUMP PRESSURE: 4.0	_psl
BAG FILTER PRESSURES:	Top	Boitom 0 psi RIGHT:	Top Bottom 40 - 9 0	 _psi
INFLUENT FEED PUMP IN USE:			PRESSURE: 11	psi
AIR STRIPPER BLOWER IN USE:		i2 √ AIR STRIPPER	PRESSURE: 16.0	in, H₂O
AIR STRIPPER BLOWER IN USE:			PRESSURE: 4.1	in. H₂O
EFFLUENT PUMP IN USE: #*	1#2 <u>√</u>	EFFLUENT FEED PUMP	PRESSURE: 3.0	psi
EFFLUENT FLOW RATE: 115	_gpm <i>EFFLUEN</i>	T TOTALIZER READING:	70,015,307 49924	0 gallons
ARE BUILDING HEATERS IN USE?	YES: √ NO):	INSIDE TEMPERATURE (° F)	57
IS SUMP PUMP IN USE: YES	:_√No:	ARE ANY LEAKS PRESEN	777 YES: NC	o: <u>√</u>
WATER LEVEL IN SUMP: 6.0	_in. TREATMENT	BUILDING CLEAN & ORGANIZE	D? YES: V):

NYSDEC Site #90150157

SITE INSPECTION FORM

MPLES COLLECTED?	YES:\	NO:							
		Sample ID	Time of Sampling	p	Н	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER I	NFLUENT:	INF	1:00 PM		7.35	7.52	11.3	2774	
AIR STRIPPER E	FFLUENT:	EFF	1:00 PM	<u> </u>	7.00	8,70	11.6	2895	
'	. — — — — — m — .		_ ,,,						
IS THERE EVIDI	ENCE OF TAMPE	ERING/VANDALIS	SM OF WELLS: ?	YES:	1	-	√		
		WERE MANHOL	ES INSPECTED?	YES:	\	NO:			
	WERE EL	ECTRICAL BOX	ES INSPECTED?	YES:	<u>√</u>	NO:			
IS WATER PRESEI	NT IN ANY MANH	IOLES OR ELEC	TRICAL BOXES?	YES:	1	NO:			
	If yes, provide m	nanhole/electric b	ox ID and description of a	any corrective	meas	ures below:			
V-4 has collapsed inner rin	ng. Snow and ice	are covering ma	ny MWs and UEs.						
	Redux pickup to	o new drum.							
	Redux pickup to	o new drum.							
	Redux pickup to	o new drum.							
her Actions: Switched			AGWAY						psl
her Actions: Switched	I VACUUM:	In.	AGWAY			RESSURE:			psl
her Actions: Switched SYSTEM SP-1:	I VACUUM: scfm	In.	AGWAY H ₂ O		AIR PI	RESSURE:			psl
SYSTEM SP-1: SP-2:	I VACUUM: scfm scfm	in. psi	AGWAY .H ₂ O .SP-5SP-6		A <i>IR Pi</i>	RESSURE:		psi	psl
SP-1: SP-2: SP-3:	Sofmsofmsofm	ln. psi psi	AGWAY H ₂ O SP-5 SP-6 SP-7		AIR PI scfm scfm scfm	RESSURE:		psi psi psi	psl
her Actions: Switched SYSTEM SP-1: SP-2:	I VACUUM: scfm scfm	in. psi	AGWAY .H ₂ O .SP-5SP-6		A/R P/ scfm scfm	RESSURE:		psi psi	psl
SYSTEM SP-1: SP-2: SP-3: SP-4:	scfm_scfm_scfm_scfm_scfm_	ln. psi psi psi psi	AGWAY H ₂ O SP-5 SP-6 SP-7		scfm scfm scfm scfm	RESSURE:		psi psi psi psi	psl
SYSTEM SP-1: SP-2: SP-3: SP-4:	scfm_scfm_scfm_scfm_scfm_	ln. psi psi psi psi	AGWAY SP-5 SP-6 SP-7 SP-8		scfm scfm scfm scfm	RESSURE:		psi psi psi psi	psl
SYSTEM SP-1: SP-2: SP-3: SP-4:	SOFMSOFMSOFMSOFMSOFMSOFMSOFMSOFMSOFMSOFMSOFM_	ln. psi psi psi psi	AGWAY SP-5 SP-6 SP-7 SP-8		scfm scfm scfm scfm	RESSURE:		psi psi psi psi	psl

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

OM&M: PIEZOMETER WATER LEVEL LOG

Date:	19-D	ec-12	Measuremer	its taken by:	<u>R. A</u>	Allen	
RW-1	15.40 ft	Comments:		PW-5	17.60 ft	Comments:	
PZ-1A	22.35 ft	Comments:		PZ-5A	10.84 ft	Comments:	
PZ-1B	11.22 ft	Comments:		PZ-5B	10.83 ft	Comments:	
PZ-1C	27.43 ft	Comments:		PZ-5C	10.44 ft	Comments:	
PZ-1D	12.51 ft	Comments:		PZ-5D	11.25 ft	Comments:	
PW-2	13.80 ft	Comments:		PW-6	1.70 ft	Comments:	
PZ-2A	10.99 ft	Comments:		PZ-6A	11.52 ft	Comments:	
PZ-2B	11.34 ft	Comments:		PZ-6B	11.40 ft	Comments:	
PZ-2C	10.78 ft	Comments:		PZ-6C	11.83 ft	Comments:	
MW-7	11.36 ft	Comments:	Substitute for 2D	PZ-6D	11.41 ft	Comments:	Shown as RW-2 on map
PW-3	19.60 ft	Comments:		PW-7	17.60 ft	Comments:	
PZ-3A	11.50 ft	Comments:		MPI-6S	11.29 ft	Comments:	
PZ-3B	11.55 ft	Comments:		PZ-7B	11.48 ft	Comments:	
PZ-3C	12.05 ft	Comments:		OW-B	11.31 ft	Comments:	
PZ-3D	11.57 ft	Comments:		PZ-7D	11.07 ft	Comments:	
PW-4	ft	Comments:	Damaged Ring	PW-8	19.70 ft	Comments:	
PZ-4A	18.82 ft	Comments:		PZ-8A	8.32 ft	Comments:	
PZ-4B	10.90 ft	Comments:		PZ-8B	8.25 ft	Comments:	
PZ-4C	ft	Comments:	Sealed Over	PZ-8C	8.14 ft	Comments:	
PZ-4D	10.51 ft	Comments:	·	PZ-8D	7.78 ft	Comments:	
<u> </u>				<u> </u>			
		PUI	MPS IN OPERATION	DURING MEA	SUREMENT	S	
RW-1	pump on?	Yes .	No	PW-5	pump on? 	Yes	√ No
PW-2	pump on?	Yes	√ No	PW-6	pump on?	Yes	√ No
PW-3	pump on?	Yes	√ No	PW-7	pump on?	Yes	√ No
PW-4	pump on?	Yes	No	PW-8	pump on? ¬	Yes	No

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 12/2012

DATE	ACTIVITY
3-Dec	OM&M Weekly Inspection and Sampling.
4-Dec	End of month summaries.
5-Dec	OM&M office work.
10-Dec	OM&M Weekly Inspection. Changed bag filters.
12-Dec	OM&M office work.
13-Dec	Replace PW-8 well pump. Test and remove PW-6. Treat wells with CLR.
14-Dec	Label IEG equipment in Treatment Room. Dilute CLR in treatment system. PW-6 - install used pump from PW-8. Pack up defective PW-6 pump for shipping. Demobilize equipment.
15-Dec	Demobilize well maintenance equipment. Record system data.
17-Dec	OM&M Weekly Inspection. Get supplies.
19-Dec	Piezometer Readings
20-Dec	Sampling
24-Dec	OM&M Weekly Inspection. Installed vent cover over man door.
27-Dec	Shovel snow in front of Treatment Room. Deliver sample kit to Treatment Room.
28-Dec	Changed bag filters
29-Dec	Respond to neighbor complaint. Shovel snow in front of Treatment Room.
31-Dec	OM&M Weekly Inspection. Emptied remains of old Redux drum into present drum and emergency Redux jug.

Attachment B Analytical Report from Mitkem Laboratories

Analytical Data Package Work Order ID: L2627

Sampled: December 20, 2012

Received: December 27, 2012

Report Date: 27-Dec-12 16:10



✓ Final Report
Re-Issued Report
Revised Report

Laboratory Report

Ecology and Environment Engineering P.C.

368 Pleasant View Drive

Lancaster, NY 14086

Work Order: L2627

Project: Mr. C's Dry Cleaning

Project #: 4500000623/EN-003229-0001-03TTO

Attn: Michael Steffan

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
1.2627-01	INFLUENT	Aqueous	20-Dec-12 15:00	21-Dec-12 13:30
L2627-02	EFFLUENT	Aqueous	20-Dec-12 15:00	21-Dec-12 13:30

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 requirments have been meet.

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 PH-0153 Connecticut Delaware N/A Florida E87664 2007037 Maine Massachusetts M-RI907 New Hampshire 2631 RI001 New Jersey 11522 New York North Carolina 581 Rhode Island LAI00301 P330-08-00023 USDA EP-W-09-039 USEPA - ISM USEPA - SOM EP-W-11-033





Authorized by:

Yihai Ding Laboratory Director Sample Transmittal Documentation

|--|--|

oproval. shes. Special Handling:

TAT- Indicate Date Needed: State . All TATs subject to laboratory approval Min. 24-hour notification needed for rushes. Samples disposed of after 30 days unless otherwise instructed.	Project No.: Site Name: Mr. CS OM & M Location: East Avrola State: NY Sampler(s): R. Allen
CHAIN OF CUSTODY RECORD	Invoice To: E & E / (nc. Project No.: Site Name: Location: E4 P.O. No.: RQN: Sampler(s):
SPECTRUM ANALYTICAL, INC BANIBAL TECHNOLOGY	Report To: E. R. E. Inc. 368 Pleasantview Dr. Lancaster, NY 14086 Telephone (716) 684 - 8060 Project Myr.: Mike Steffan

Notes:

List preservative code below:

6=Ascorbic Acid 7=CH3OH

4=HNO₃ 5=NaOH

2=HCl 3=H₂SO₄ 9=

1=Na₂S2O₃ 8= NaHSO₄

DW=Drinkir	DW=Drinking Water GW=Groundwater		WW=Wastewater		_,*_]	පි	Containers:		· 1000 1000 1000 1000 1000 1000 1000 10	¥	Analyses:		QA/QC Reporting Level	rting Level
O=Oil SW	O=Oil SW=Surface Water SO=Soil	Soil SL=Slud	SL=Sludge A=Air										□ Level I	□ Level Ⅱ
XI=	X2=	X3=.		1			lass		<u></u>	<i></i>			□ Leyel III	☐ Level IV
	G=Grab C=Composite	omposite							H.	20.			DOther CAT	4T A
Tab Id:	Sample Id:	Date:	Time:	Туре	xirtsM)V 10 #	# of Cl		there	<u> </u>		•	State specific reporting standards:	rting standards:
	1-	Dec 20, 2012 3:00 P	3:00 P	U	₹				>				Send (2)	sample
	 		3:00 P	0	3. U				>				でおって	We wever
		_	3:00 P	i .	GW 2	21				>			act and	- any lost mouth
do	OZ EFFLUENT	/	3:00 F		3 3 3		1		>	'			/ 0	
	EFF UENT		3:00 8	ひ			-		^				Please send	and our
NA CONTRACTOR OF THE PARTY OF T	EFFLIVENT	>	3:00 P	<i>U</i>	S. W.	VI				>			Cooler	sack!
		-												-
swe F														
村 田 33	TIE TO WESTERIAM & PAG, COM	PAR, CON			Reli	Relinquished by:	d by:		14 2 4	Rec	Received by:		Date:	Time:
EDD Format	PDF			次	aria,	<u> </u>	Buch	/ \	1/		1	· ·	12/12/12	13:30
)	,		•					
Condition up	Condition upon receipt	nbient p °C	~											

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 -- Rhode Island Division Page 01 of 00 Received By: Log-in Date 12/21/2012 Reviewed By Client Name: Ecology and Environment Engineering P.C. Work Order: L2627 Project Name/Event: Mr. C's Dry Cleaning 4500000623/EN-003229-0001-03TTO Soil HeadSpace Remarks: (1/2) Please see associated Preservation (pH) or Air Bubble > sample/extract transfer logbook pages or equal to 1/4" submitted with this data package. VOA HC1 NaOH | H3PO4 Lab Sample ID HN03 | H2SO4 Matrix Custody Seal(s) Present / Absent Н L2627-01 <2 Н Intact / Broken L2627-02 2. Custody Seal Nos. Traffic Reports/ Chain Present / Absent of Custody Records (TR/COCs) or Packing 4. Airbill AirBill / Sticker Present / Apsent 5. Airbill No. FedEx 7943 5225 5673 6. Sample Tags Present / Absent Sample Tag Numbers Listed/ Not Listed on Chainof-Custody Sample Condition Intact / Broken/ Leaking Present / Absent Cooler Temperature Indicator Bottle 3°C 9. Cooler Temperature Yes / No 10. Does information on TR/COCs and sample tags agree? 11. Date Received at 12/21/2012 Laboratory 12. Time Received 13:30 Sample Transfer Fraction (2) SVOA/PEST/ARO Fraction (1) TVOA/VOA Area # Area # Ву Ву On On VOA Matrix Key: IR Temp Gun ID:MT-1 CoolantCondition: ICE US = Unpreserved Soll A= Air UA = Unpreserved Aqueous H = HCI Preservative Name/Lot No: M = MeOH E = Encore F = Freeze N = NaHSO4 See Sample Condition Notification/Corrective Action Form Rad OK Yes



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Volatiles *

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

CLIENT	SAMPLE	NO.
INFLUE	NT	
1		

Lab Name:	SPECTRUM ANA	ALYTICAL, I	NC.	Contract:	
Lab Code:	MITKEM	Case No.:	L2627	Mod. Ref No.:	SDG No.: SL2627
Matrix: (So	OIL/SED/WATE	R) WATER		Lab Sample ID:	L2627-01A
Sample wt/v	vol: 5	.00 (g/mL)	ML	Lab File ID:	V8B7233.D
Level: (TRA	ACE/LOW/MED)	LOW		Date Received:	12/21/2012
% Moisture	: not dec.			Date Analyzed:	12/24/2012
GC Column:	DB-624	ID:	0.25 (mm	n) Dilution Factor:	10.0
Soil Extra	ct Volume:		(uI) Soil Aliquot Vol	ume: (uL)
Purge Volum	me: 5.0		(mI	,)	

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	Ū
75-01-4	Vinyl chloride	10	Ü
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
	1,1-Dichloroethene	10	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	10	U
	Methylene chloride	10	U
	trans-1,2-Dichloroethene	10	Ū
	Methyl tert-butyl ether	6.7	J
	1,1-Dichloroethane	10	U
	2-Butanone	50	Ü
156-59-2	cis-1,2-Dichloroethene	25	
	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
	Carbon tetrachloride	10	Ū
107-06-2	1,2-Dichloroethane	10	Ü
	Benzene	10	U
79-01-6	Trichloroethene	62	
78-87-5	1,2-Dichloropropane	10	Ū
	Bromodichloromethane	10	Ü
10061-01-5	cis-1,3-Dichloropropene	10	U
	4-Methyl-2-pentanone	50	U
108-88-3		10	Ü
10061-02-6	trans-1,3-Dichloropropene	10	U
	1,1,2-Trichloroethane	10	U
	Tetrachloroethene	860	
	2-Hexanone	50	U
	Dibromochloromethane	10	Ū
	1,2-Dibromoethane	10	U
	Chlorobenzene	10	υ
	Ethylbenzene	10	Ū
	Xylene (Total)	10	Ū

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

	CLIENT	SAMPLE	NO.
1	INFLUE	NΤ	

Lab Name: SPECTR	UM ANALY'	rical, in	С.		Contract:	
Lab Code: MITKEN	c	ase No.:	L2627		Mod. Ref No.:	SDG No.: SL2627
Matrix: (SOIL/SE	/WATER)	WATER			Lab Sample ID:	L2627-01A
Sample wt/vol:	5.00	(g/mL)	ML		Lab File ID:	V8B7233.D
Level: (TRACE/LO	/MED) L	OW			Date Received:	12/21/2012
% Moisture: not	ec.				Date Analyzed:	12/24/2012
GC Column: DB-62	4	ID:	0.25	(mm)	Dilution Factor:	10.0
Soil Extract Volu	me:			(uL)	Soil Aliquot Vol	ume:(uL)
Purge Volume: 5	٥			(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	10	Ü
	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
	1,1,2,2-Tetrachloroethane	10	U
	1,3-Dichlorobenzene	10	U
	1,4-Dichlorobenzene	10	U
	1,2-Dichlorobenzene	10	U
	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
	Cyclohexane	10	Ü
	Methyl acetate	10	U
	Methylcyclohexane	10	Ū

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

CLIENT	SAMPLE	NO.
EFFLUE	NT	

Lab Name:	SPECTRUM ANAI	LYTICAL, IN	c.		Contract:	
Lab Code:	MITKEM	Case No.:	L2627		Mod. Ref No.:	SDG No.: SL2627
Matrix: (SC	OIL/SED/WATER) WATER			Lab Sample ID:	L2627-02A
Sample wt/v	vol: 5.0	00 (g/mL)	ML		Lab File ID:	V8B7234.D
Level: (TRA	ACE/LOW/MED)	LOW		<u></u>	Date Received:	12/21/2012
% Moisture:	not dec.				Date Analyzed:	12/24/2012
GC Column:	DB-624	ID:	0.25	(mm)	Dilution Factor:	1.0
Soil Extra	ct Volume:			(uL)	Soil Aliquot Vol	ume: (uL
Purge Volum	ne: 5.0			(mL)		

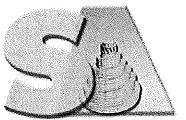
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	Ü
	Chloromethane	0.74	J
	Vinyl chloride	1.0	U
	Bromomethane	1.0	Ü
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	4.9	J
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
	trans-1,2-Dichloroethene	1.0	Ü
	Methyl tert-butyl ether	1.0	Ū
	1,1-Dichloroethane	1.0	U
	2-Butanone	5.0	U
	cis-1,2-Dichloroethene	1.0	U
	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	Ü
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	Ū
10061-02-6	trans-1,3-Dichloropropene	1.0	ū
	1,1,2-Trichloroethane	1.0	Ū
127-18-4	Tetrachloroethene	1.0	U
	2-Hexanone	5.0	U
	Dibromochloromethane	1.0	Ū
	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	Xylene (Total)	1.0	U

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

CLIENT	SAMPLE	NO.
ĒFFLUE	TV	

Lab Name: Si	PECTRUM ANA	LYTICAL, IN	С.		Contract:	
Lab Code: M	ITKEM	Case No.:	L2627		Mod. Ref No.:	SDG No.: SL2627
Matrix: (SOI	L/SED/WATER) WATER			Lab Sample ID:	L2627-02A
Sample wt/vo	1:5.	00 (g/mL)	ML		Lab File ID:	V8B7234.D
Level: (TRAC	E/LOW/MED)	LOW			Date Received:	12/21/2012
% Moisture:	not dec.				Date Analyzed:	12/24/2012
GC Column:	DB-624	ID:	0.25	(mm)	Dilution Factor:	1.0
Soil Extract	Volume:			(uL)	Soil Aliquot Vol	ume: (uL
Purge Volume	: 5.0			(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	1.0	U
	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	Ü
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U



SPECTRUM ANALYTICAL, INC.
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* Wet Chemistry *

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

12/27/2012

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: L2627-01

Project: Mr. C's Dry Cleaning

Collection Date: 12/20/12 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	450	4.0 mg/L CaCO3	112/26/2012 9:44	69903
SM 4500 H+ B pH VALUE				SM4500_H+
PH	7.4	1.0 S.U.	102/22/2012 14:30	R71628

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. Featuring Hanibal Technology -- Rhode Island Division

12/27/2012

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: L2627-02

Project: Mr. C's Dry Cleaning

Collection Date: 12/20/12 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	440	4.0 mg/L CaCO3	112/26/2012 9:48	69903
SM 4500 H+ B pH VALUE				SM4500_H+
pH	8.7	1.0 S.U.	1 02/22/2012 14:31	R71628

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Attachment C Summary of Site Utility Costs and Projections January to December 2012

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	medial Treatm	ent Utility Costs								ATTA	ATTACHMENT C
NYSDEC Work Assignment #DC13.02.01.01	ssignment #	DC13.02.01.01						Utility Budget:	et	Electric	\$15,800.00	
12 Months of System Operation and Maintenance	stem Operation	on and Mainter	nance							Telephone:	\$540.00	
December 2012 Report	Report									Gas	\$1,120.00	
Gas, Telephone, and Electric	Electric									Total:	\$17,460,00	
Utility Provider	Account #	E&E Cost Contor	Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012			
Now York State E&G	06-311-11-002616-26	002700.DC13.02.01. 01	Mr. C's Electric Costs	\$ 1,191.08	\$ 1,075.21	\$ 1,076.16	\$ 963.93	\$ 1,210.05	\$1,506,04		l	
Now York State E&G	76-311-11-015900-18		Agway Site - Electric	\$239.29		\$97,33		\$82,01				
National Fuol Gas	5819628-05	002700.DC13.02.01.01	Mr. C's Natural Gas Costs	\$205.14	\$ 193.04	\$ 155.38	\$ 258.86	\$ 70.77	\$30.08			
			Totals	\$ 1,635.51	\$ 1,268.25		\$ 1,222.79	\$ 1,362.83	\$ 1,536,12			
The state of the s				Įut	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012			Ave. /Month
			Mr. C's Electric Costs	\$ 1,412.11	\$ 1,419.49	\$ 1,351.27	\$ 1,435.03	\$ 1,622.53			ų.	\$ 1,296.63
The state of the s			Agway Electric						\$47.53			
		relikkelter krijikelter in de oo	Mr. C's Natural Gas Costs		\$ 12.58	\$ 31.33	\$ 67.63	\$ 108.45	တ			\$ 114.67
			Totals		1,4	\$ 1,422.72	\$ 1,502.66	\$ 1,772.56	\$ 268.98			\$ 1,495.09
			Electric (Both sites)		\$14,849.42	_	Notes:					
			Natural Gas		1,376.07		7	Overbilled natural gas costs - no charges	il gas costs - no	charges		
	Grand	Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	s	16	120034729		Estimated Reading	guj	\$ 333.44	in red -adjusted billing	billing
Phone				I								
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012			
Verizon	716-652-0094	002700.DC13.02.01. 01	Mr. C's Telephone Costs	\$ 35.00	\$ 35.00	\$ 35.00	\$ 35.00	\$ 35.00	\$ 35,00			
Account #												
716 652 0094 416 26 2												
				Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012			Ave./Month
				\$ 35.00	\$ 35.00	\$ 35.00	\$ 35,00					\$ 35.00
entere e den e entre esta esta esta esta esta entre lemana, entre esta entre entre entre esta esta esta esta e		collinous parate	Andrew Commence of the Commenc					THE RESERVE THE PROPERTY OF TH	n de de la fertaga de describir de demonstra		7	
		Grand Total -	Grand Total - Verizon Costs to Date	9	350.00							

		Grand Total	Grand Total All Utilities To Date	\$	16,575.49							Î
							The state of the s					
												The Delication of the Control of the

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Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	rs Site - Rer	nedial Treatme	int Utility Costs							ATTACHMENTC	ENTC
NYSDEC Work Assignment #DC13	signment #D)C13	•			Budge	Budget Remaining:	Electric:	\$950.58		
12 Months of System Operation and Maintenance	em Operatio	n and Mainten	ance					Telephone:	\$190.00		
December 2012 Report	port		Withdrick and depute the design of the property of the propert					Gas	-\$256.07		
THE PARTY OF THE P	Optimum Operating	Section Description	I to time Demandana						1		
CT . Mary rate	Sinori	Since General Trans		Capacity 43 68/	Comments:			l otal:	rc.4884	700000000000000000000000000000000000000	
February-12	768	768	100.00%	11.7%	Mild February						
March-12	720	720	100.00%		Very Mild March						Ī
April-12	624	624	100.00%		Warm and Fair April						
May-12	888	888	100.00%	1	Sunny May						
June-12	624	624	100.00%	80.8	Sunny June						
Aroust-12		864	100.00%		Very Dry						
September-12	-	648	100.00%		Dry						
October-12		888	100.00%		Normal						
November-12	624	624	100.00%	11.2%	Wetter weather new pumps for PW6 and PW7	r PW6 and PW7					
Totals to Date	8684	8684	100.00%	14:378	מוסא שיים אסיים אסיים						
* 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.	al operating groundwate	or flows from the eight install	led pumps from 9/02. Evaluated c	on total gallons disc	harged for monthly operating ti	me.					
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operal	ted as an avorage of 78	8 gpm as the total for all 8 p.	imps at the site if all pumps oper	ate 100%. With the	to 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	p RW-1, all others run o	n a batch basis.				
Monthly Average Costs	sts										
Mr. C's Electric	\$ 1,296.63										
Agway Electric	\$ 83.79										}
	\$ 114.67										
Ave. Utility Cost Total	\$ 1,530.09	times	12 Month Estimate	\$19,891.15							