ecology and environment engineering and geology, p.c.
Environmental Specialists

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

January 7, 2022

Mr. Payson Long, 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 # D009807, Site # 915157
November 2021 Operations, Maintenance, and Monitoring Report

Dear Mr. Long:

Ecology and Environment Engineering and Geology, P.C. (E&E) is pleased to provide the November 2021 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York.

During the November 2021 reporting period, the treatment system was in operation from November 3, 2021 through November 29, 2021. The monthly OM&M sampling was performed on November 8, 2021, and the results were received from Eurofins on November 23, 2021 (See Attachment A). The effluent results for this effluent sample met the requirements of the SPDES Equivalency permit. A summary of field activities prepared by E&E's subcontractor, IYER Environmental Group, PLLC. (IEG), is provided in Attachment B.

In review of the on-site treatment system operations, monitoring and maintenance from IEG for November 2021, E&E offers the following comments and highlights:

Operational Summary:

- Based on inspection reports prepared by IEG, the remedial treatment system for the period of November 3, 2021 through November 29, 2021, had an approximate operational up-time of 88.9%, and 64,500 gallons of contaminated groundwater were treated during the reporting period. The treated effluent volumes and operational up-time can be seen in Table 1.
- The compliance samples from November 8, 2021 collected from the effluent sampling port met all requirements of the SPDES Equivalency permit. The effluent results are provided in Table 2.
- The analytical summary results of the November 8, 2021 samples revealed the total volatile organic contaminant concentrations of the influent to 3,975.0 µg/L and the concentration of total volatile organic contaminants in the effluent was 0.0 µg/L. The summary of influent and effluent contaminant concentrations for the November 2021 sampling are presented in Table 3. Figure 1 shows the influent and effluent VOC concentrations during each sampling event in 2018, 2019, 2020, and 2021.

- The Mr. C's treatment system, based on the total flows from the uptime operations and the November 8, 2021 sampling results, removed 2.14 lbs. of targeted contaminants from the groundwater between November 3, 2021 through November 29, 2021. The cleanup effectiveness for November 2021 was approximately 100%. The calculations and data for the month are presented in Table 3. The mass of VOCs removed each month throughout 2018, 2019, 2020, and 2021 is shown in Figure 2.

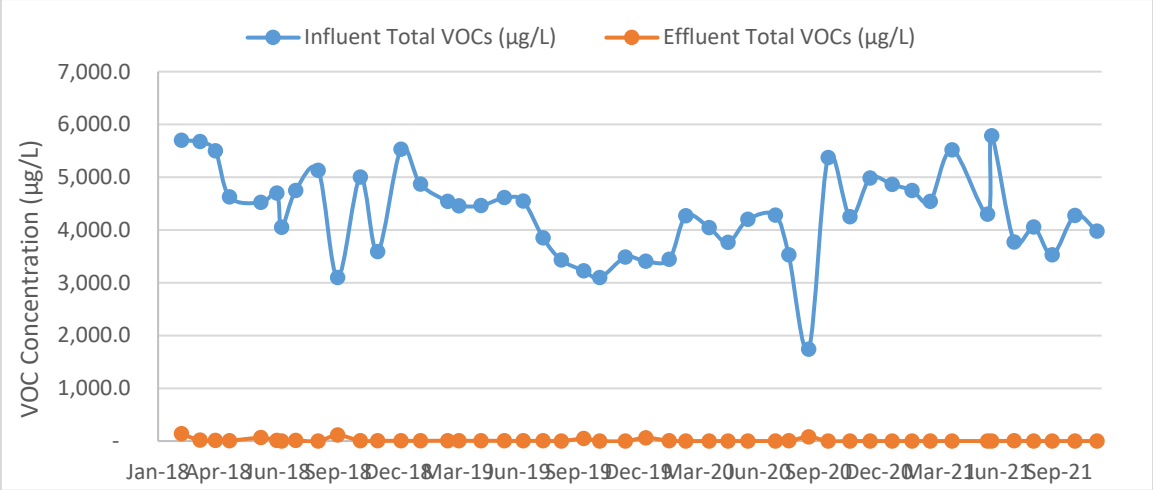

Figure 1: Monthly Influent and Effluent VOC concentrations - 2018 - 2021.

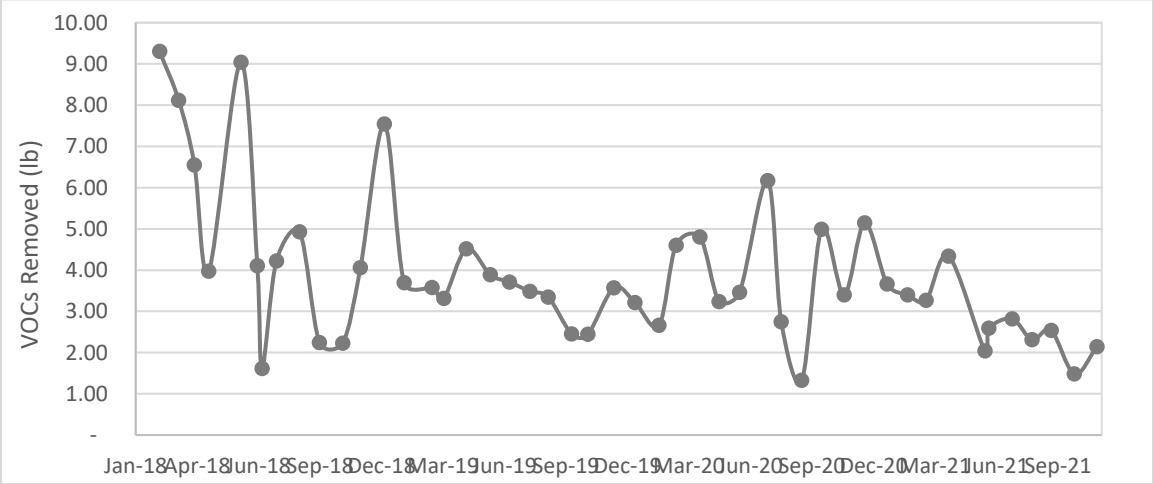

Figure 2: Mass of VOCs removed each month - 2018 - 2021.

If you have questions regarding the November 2021 OM&M report summary, please do not hesitate to contact me via e-mail at rebecca.knappert@wsp.com.

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

Rebecca Knappert
Project Manager

cc: M. Kuczka, Region 9, NYSDEC – Buffalo w/ attachments

Table 1
Mr. C's Dry Cleaners Site Remediation
Site #915157
System Operation and Management

Month	Sample Date	Up-time (Reporting Period)		Treated Effluent (gallons)	VOC Removal		
		Reporting Hours	Operational Up-time		Influent VOCs (µg/L)	Effluent VOCs (µg/L)	VOCs Removed (lbs.)
(Treatment System Up-time from 9/5/02 to 01/04/21)		**143,246**	**91.77%**	**135,593,529**	**NA**	**NA**	**1,837.21**
January 05, 2021 to February 01, 2021	January 5, 2021	672	100.00%	90,369	4,860.0	0.00	3.66
February 02, 2021 to March 01, 2021	February 4, 2021	672	100.00%	85,728	4,747.0	0.00	3.40
March 02, 2021 to March 29, 2021	March 3, 2021	672	100.00%	86,158	4,542.0	0.00	3.27
March 30, 2021 to May 03, 2021	April 5, 2021	840	100.00%	94,313	5,514.0	0.00	4.34
May 04, 2021 to June 01, 2021	May 4, 2021	432	62.07%	56,953	4,296.0	0.00	2.04
June 02, 2021 to June 28, 2021	June 3, 2021	648	100.00%	53,615	5,780.0	0.00	2.59
June 29, 2021 to August 03, 2021	July 7, 2021	864	100.00%	89,570	3,767.3	3.20	2.82
August 04, 2021 to August 30, 2021	August 5, 2021	648	100.00%	68,120	4,056.0	0.00	2.31
August 31, 2021 to October 04, 2021	September 2, 2021	840	100.00%	86,350	3,527.0	0.00	2.54
October 05, 2021 to November 02, 2021	October 6, 2021	360	51.72%	41,590	4,274.0	0.00	1.48
November 03, 2021 to November 29, 2021	November 8, 2021	576	88.89%	64,500	3,975.0	0.00	2.14
Total in 2021		**7,224**	**91.49%**	**817,266**	**NA**	**NA**	**30.58**
Total from startup		**150,470**	**91.75%**	**136,410,795**	**NA**	**NA**	**1,867.79**

NOTES:

1. Up-time based as percentage of total reporting hours.
2. Treatment system operated by Iyer Environmental Group from 07/07/2016 to 2/24/2020 and 6/17/2020 to present. GES operated the system from 2/24/20 to 6/17/20.
3. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
4. VOC removal calculations assume that non-detect values = 0 ug/L.
5. Total VOCs summations include estimated "J" values.
6. VOC removal calculations are based on effluent totalizer readings.
7. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
8. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters
9. Formula for the VOC removal calculation:

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

µg/L = micrograms per liter
lbs = pounds

Table 2
Mr. C's Dry Cleaners Site Remediation
Site #915157
Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum[1]	Units	November 8, 2021 Effluent Analytical Values
Flow (Average)[2]	N/A	gpd	2,688
pH	6.0 - 9.0	standard units	8.2
1,1 Dichloroethene	10	µg/L	ND(<1.0)
cis-1,2-dichloroethene (cis-1,2-DCE)	10	µg/L	ND(<1.0)
Trichloroethene (TCE)	10	µg/L	ND(<1.0)
Tetrachloroethene (PCE)	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[3]	5	µg/L	ND(<2.0)
m, p-Xylene[3]	10	µg/L	ND(<2.0)
Total Xylenes	NA	ug/L	ND(<2.0)
Iron, total[4]	600	µg/L	NA[4]
Aluminum[4]	4,000	µg/L	NA[4]
Copper[4]	48	µg/L	NA[4]
Lead[4]	11	µg/L	NA[4]
Manganese[4]	2,000	µg/L	NA[4]
Silver[4]	100	µg/L	NA[4]
Vanadium[4]	28	µg/L	NA[4]
Zinc[4]	230	µg/L	NA[4]
Total Dissolved Solids[4]	850	mg/L	NA[4]
Total Suspended Solids[4]	20	mg/L	NA[4]
Hardness	N/A	mg/L	520
Cyanide, Free[4]	10	µg/L	NA[4]

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
2. Average flows based on effluent readings and system up-time:

   November 3, 2021 through November 29, 2021 = 2,688 gallons per day
3. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
4. Removed from the required analysis list by NYSDEC Region 9 in February 2005.
5. Dark shaded cells indicate that analytical value exceeds the "Daily Maximum."
6. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
7. "NA" indicates that analyses were not performed and data is unavailable.
8. "J" indicates an estimated value below the detection limit.
9. "B" indicates analyte found in the associated blank.
10. "NS" indicates that the parameter analysis was not sampled.

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

Table 3
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #915157
November 2021 VOC Analytical Summary

Compound	Based on the November 8, 2021 Effluent Analytical Results				
	Influent Concentration (ug/L)		Effluent Concentration (ug/L)		Treatment Efficiency* (%)
Acetone	ND(<400)	U	ND(<10)	U	NA
Benzene	ND(<40)	U	ND(<1.0)	U	NA
2-Butanone	ND(<400)	U	ND(<10)	U	NA
1,1-Dichloroethene	ND (<40)	U	ND(<1.0)	U	NA
cis-1, 2-Dichloroethene	1,400	F1	ND(<1.0)	U	100.00%
Chloroform	ND(<40)	U	ND(<1.0)	U	NA
Chloromethane	ND(<40)	U	ND(<1.0)	U	NA
Methylene chloride	ND(<40)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	8.5	J	ND(<1.0)	U	100.00%
Methyl acetate	ND(<100)	U	ND(<2.5)	U	NA
Tetrachloroethene (PCE)	2,100	F1	ND(<1.0)	U	100.00%
Toluene	ND(<40)	U	ND(<1.0)	U	NA
Trichloroethene (TCE)	380		ND(<1.0)	U	100.00%
Carbon Disulfide	ND(<40)	U	ND(<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND(<40)	U	ND(<1.0)	U	NA
2-Hexanone	ND(<200)	U	ND(<5.0)	U	NA
4-Methyl-2-pentanone	ND(<200)	U	ND(<5.0)	U	NA
Cyclohexane	ND(<40)	U	ND(<1.0)	U	NA
trans-1,2-dichloroethene	ND(<40)	U	ND(<1.0)	U	NA
Chlorobenzene	ND(<40)	U	ND(<1.0)	U	NA
Methylcyclohexane	ND(<40)	U	ND(<1.0)	U	NA
Ethylbenzene	ND(<40)	U	ND(<1.0)	U	NA
Vinyl Chloride	86		ND(<1.0)	U	100.00%
Total Xylenes	ND(<80)	U	ND(<2.0)	U	NA
TOTAL:	**3,975**		**0.0**		**100.00%**

Notes:

1. The efficiency cleanup values are calculated based on the November 8, 2021 results
2. "NA" = Not applicable
3. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
4. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
5. "F1"=MS and/or MSD recovery exceeds control limits. "F2" = MS/MSD relative percent difference exceeds control limits.
6. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
7. "S" indicates an estimated value and suspected lab contamination.
8. "Bold" - exceeds the SPDES Equilavency Permit Requirements.

* Contaminants of Concern only

Attachment A
Excerpts from the Groundwater Treatment System Analytical Report from Eurofins TestAmerica

Analytical Data Package Work Order ID: J190538
Sampled by IEG: November 8, 2021
Report Received: November 23, 2021

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-192042-1
Client Project/Site: Mr. C's Dry Cleaner
Sampling Event: OM&M Treatment System

For:
Ecology and Environment, Inc.
368 Pleasant View Drive
Lancaster, New York 14086

Attn: Becky Knappert

Authorized for release by:
11/23/2021 7:13:06 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-192042-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-192042-1

Comments
No additional comments.

Receipt
The samples were received on 11/9/2021 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.3º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-192042-1), (480-192042-C-1 MS) and (480-192042-C-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: INFLUENT (480-192042-1) and EFFLUENT (480-192042-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: INFLUENT — Lab Sample ID: 480-192042-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400	F1	40	32	ug/L	40		8260C	Total/NA
Methyl tert-butyl ether	8.5	J	40	6.4	ug/L	40		8260C	Total/NA
Tetrachloroethene	2100	F1	40	14	ug/L	40		8260C	Total/NA
Trichloroethene	380		40	18	ug/L	40		8260C	Total/NA
Vinyl chloride	86		40	36	ug/L	40		8260C	Total/NA
Hardness as calcium carbonate	450		10.0	2.6	mg/L	1		SM 2340C	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: EFFLUENT — Lab Sample ID: 480-192042-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	520		10.0	2.6	mg/L	1		SM 2340C	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: DISCHARGE — Lab Sample ID: 480-192042-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: INFLUENT
Date Collected: 11/08/21 00:00
Date Received: 11/09/21 14:20

Lab Sample ID: 480-192042-1
Matrix: WW

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	40	U	40	33	ug/L			11/16/21 04:56	40
1,1,2,2-Tetrachloroethane	40	U	40	8.4	ug/L			11/16/21 04:56	40
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	40	12	ug/L			11/16/21 04:56	40
1,1,2-Trichloroethane	40	U	40	9.2	ug/L			11/16/21 04:56	40
1,1-Dichloroethane	40	U	40	15	ug/L			11/16/21 04:56	40
1,1-Dichloroethene	40	U	40	12	ug/L			11/16/21 04:56	40
1,2,4-Trichlorobenzene	40	U	40	16	ug/L			11/16/21 04:56	40
1,2-Dibromo-3-Chloropropane	40	U	40	16	ug/L			11/16/21 04:56	40
1,2-Dibromoethane	40	U	40	29	ug/L			11/16/21 04:56	40
1,2-Dichlorobenzene	40	U	40	32	ug/L			11/16/21 04:56	40
1,2-Dichloroethane	40	U	40	8.4	ug/L			11/16/21 04:56	40
1,2-Dichloropropane	40	U	40	29	ug/L			11/16/21 04:56	40
1,3-Dichlorobenzene	40	U	40	31	ug/L			11/16/21 04:56	40
1,4-Dichlorobenzene	40	U	40	34	ug/L			11/16/21 04:56	40
2-Butanone (MEK)	400	U	400	53	ug/L			11/16/21 04:56	40
2-Hexanone	200	U	200	50	ug/L			11/16/21 04:56	40
4-Methyl-2-pentanone (MIBK)	200	U	200	84	ug/L			11/16/21 04:56	40
Acetone	400	U	400	120	ug/L			11/16/21 04:56	40
Benzene	40	U	40	16	ug/L			11/16/21 04:56	40
Bromodichloromethane	40	U	40	16	ug/L			11/16/21 04:56	40
Bromoform	40	U	40	10	ug/L			11/16/21 04:56	40
Bromomethane	40	U	40	28	ug/L			11/16/21 04:56	40
Carbon disulfide	40	U	40	7.6	ug/L			11/16/21 04:56	40
Carbon tetrachloride	40	U	40	11	ug/L			11/16/21 04:56	40
Chlorobenzene	40	U	40	30	ug/L			11/16/21 04:56	40
Chloroethane	40	U	40	13	ug/L			11/16/21 04:56	40
Chloroform	40	U	40	14	ug/L			11/16/21 04:56	40
Chloromethane	40	U	40	14	ug/L			11/16/21 04:56	40
cis-1,2-Dichloroethene	**1400**	**F1**	40	32	ug/L			11/16/21 04:56	40
cis-1,3-Dichloropropene	40	U	40	14	ug/L			11/16/21 04:56	40
Cyclohexane	40	U	40	7.2	ug/L			11/16/21 04:56	40
Dibromochloromethane	40	U	40	13	ug/L			11/16/21 04:56	40
Dichlorodifluoromethane	40	U	40	27	ug/L			11/16/21 04:56	40
Ethylbenzene	40	U	40	30	ug/L			11/16/21 04:56	40
Isopropylbenzene	40	U	40	32	ug/L			11/16/21 04:56	40
Methyl acetate	100	U	100	52	ug/L			11/16/21 04:56	40
Methyl tert-butyl ether	**8.5**	**J**	40	6.4	ug/L			11/16/21 04:56	40
Methylcyclohexane	40	U	40	6.4	ug/L			11/16/21 04:56	40
Methylene Chloride	40	U	40	18	ug/L			11/16/21 04:56	40
Styrene	40	U	40	29	ug/L			11/16/21 04:56	40
Tetrachloroethene	**2100**	**F1**	40	14	ug/L			11/16/21 04:56	40
Toluene	40	U	40	20	ug/L			11/16/21 04:56	40
trans-1,2-Dichloroethene	40	U	40	36	ug/L			11/16/21 04:56	40
trans-1,3-Dichloropropene	40	U	40	15	ug/L			11/16/21 04:56	40
Trichloroethene	**380**		40	18	ug/L			11/16/21 04:56	40
Trichlorofluoromethane	40	U	40	35	ug/L			11/16/21 04:56	40
Vinyl chloride	**86**		40	36	ug/L			11/16/21 04:56	40
Xylenes, Total	80	U	80	26	ug/L			11/16/21 04:56	40

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: INFLUENT
Date Collected: 11/08/21 00:00
Date Received: 11/09/21 14:20

Lab Sample ID: 480-192042-1
Matrix: WW

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*11/16/21 04:56*	*40*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*11/16/21 04:56*	*40*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*11/16/21 04:56*	*40*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/16/21 04:56*	*40*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**450**		10.0	2.6	mg/L			11/23/21 14:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.1	0.1	SU			11/15/21 10:59	1
Temperature	**22.8**	**HF**	0.001	0.001	Degrees C			11/15/21 10:59	1

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: EFFLUENT
Date Collected: 11/08/21 00:00
Date Received: 11/09/21 14:20

Lab Sample ID: 480-192042-2
Matrix: WW

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/16/21 05:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/16/21 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/21 05:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/16/21 05:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/16/21 05:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/16/21 05:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/16/21 05:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/16/21 05:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/16/21 05:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/16/21 05:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/16/21 05:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/16/21 05:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/16/21 05:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/16/21 05:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/16/21 05:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/16/21 05:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/16/21 05:18	1
Acetone	10	U	10	3.0	ug/L			11/16/21 05:18	1
Benzene	1.0	U	1.0	0.41	ug/L			11/16/21 05:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/16/21 05:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/16/21 05:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/16/21 05:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/16/21 05:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/16/21 05:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/16/21 05:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/21 05:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/16/21 05:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/16/21 05:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/16/21 05:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/16/21 05:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/16/21 05:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/16/21 05:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/16/21 05:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/16/21 05:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/16/21 05:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/16/21 05:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/16/21 05:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/16/21 05:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/16/21 05:18	1
Styrene	1.0	U	1.0	0.73	ug/L			11/16/21 05:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/16/21 05:18	1
Toluene	1.0	U	1.0	0.51	ug/L			11/16/21 05:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/16/21 05:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/16/21 05:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 05:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/16/21 05:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/16/21 05:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/16/21 05:18	1

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: EFFLUENT
Date Collected: 11/08/21 00:00
Date Received: 11/09/21 14:20

Lab Sample ID: 480-192042-2
Matrix: WW

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*11/16/21 05:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*11/16/21 05:18*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/16/21 05:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/16/21 05:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**520**		10.0	2.6	mg/L			11/23/21 14:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**	0.1	0.1	SU			11/15/21 11:00	1
Temperature	**22.8**	**HF**	0.001	0.001	Degrees C			11/15/21 11:00	1

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: DISCHARGE
Date Collected: 11/08/21 00:00
Date Received: 11/09/21 14:20

Lab Sample ID: 480-192042-3
Matrix: WW

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/16/21 05:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/16/21 05:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/16/21 05:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/16/21 05:40	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/16/21 05:40	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/16/21 05:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/16/21 05:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/16/21 05:40	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/16/21 05:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/16/21 05:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/16/21 05:40	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/16/21 05:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/16/21 05:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/16/21 05:40	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/16/21 05:40	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/16/21 05:40	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/16/21 05:40	1
Acetone	10	U	10	3.0	ug/L			11/16/21 05:40	1
Benzene	1.0	U	1.0	0.41	ug/L			11/16/21 05:40	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/16/21 05:40	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/16/21 05:40	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/16/21 05:40	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/16/21 05:40	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/16/21 05:40	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/16/21 05:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/16/21 05:40	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/16/21 05:40	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/16/21 05:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/16/21 05:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/16/21 05:40	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/16/21 05:40	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/16/21 05:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/16/21 05:40	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/16/21 05:40	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/16/21 05:40	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/16/21 05:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/16/21 05:40	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/16/21 05:40	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/16/21 05:40	1
Styrene	1.0	U	1.0	0.73	ug/L			11/16/21 05:40	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/16/21 05:40	1
Toluene	1.0	U	1.0	0.51	ug/L			11/16/21 05:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/16/21 05:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/16/21 05:40	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 05:40	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/16/21 05:40	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/16/21 05:40	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/16/21 05:40	1

Client: Ecology and Environment, Inc.
Project/Site: Mr. C's Dry Cleaner

Job ID: 480-192042-1

Client Sample ID: DISCHARGE
Date Collected: 11/08/21 00:00
Date Received: 11/09/21 14:20

Lab Sample ID: 480-192042-3
Matrix: WW

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		11/16/21 05:40	1
4-Bromofluorobenzene (Surr)	98		73 - 120		11/16/21 05:40	1
Dibromofluoromethane (Surr)	102		75 - 123		11/16/21 05:40	1
Toluene-d8 (Surr)	98		80 - 120		11/16/21 05:40	1

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Ecology & Environment, Inc	Ashlee Smith RCA	Nov 8, 2021	282468
Address 368 Pleasantview Dr	**Telephone Number (Area Code)/Fax Number** (716) 684-8060 ext 2710	**Lab Number**	**Page** 1 of 1
City Lancaster / **State** NY / **Zip Code** 14086	**Site Contact** R. Allen	**Lab Contact** J. Schove	
Project Name and Location (State) MrCs OM&M (NY)	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

480-192042 Chain of Custody

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: pH	Hardness	VOCs
INFLUENT	Nov 8, 2021			✓			1						✓		
INFLUENT				✓					1					✓	
INFLUENT				✓						3					✓
EFFLUENT				✓			1						✓		
EFFLUENT				✓					1					✓	
EFFLUENT				✓						3					✓
DISCHARGE				✓						3					✓

Email: iyerenv@gmail.com
RKnappert@ene.com

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Richard C Allen Jr	Nov 8, 2021		1. Received By: Cynthia Civolb	11/8/21	1420
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 8,3 #1 NOICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Attachment B
IEG Summary of Field Activities

November 2021

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - Nov 2021

DATE	ACTIVITY
1-Nov-21	Took photos of Filter Housings. Office work.
2-Nov-21	Met with NYSDEC and E&E, Inc to discuss OM&M at the site. Weekly Inspection.
5-Nov-21	Checked System. End of Month Expenses and Summaries
8-Nov-21	Treatment Room Sampling. Office work.
9-Nov-21	Weekly Inspection. Contacted and waited for CDI delivery. Met National Fuel Rep and discussed replacing gas line near Treatment System lines around Library driveway.
10-Nov-21	Checked System. Took delivery of CDI chemical shipment. Office work.
11-Nov-21	Checked System. Dropped off Air Stripper maintenance equipment from IEG Shed. Loaded up non-essential equipment and took to IEG Shed.
15-Nov-21	Errands and office maintenance.
16-Nov-21	Weekly Inspection. Shut System OFF. Installed vent cover over man-door for the season. Cleaned Air Stripper with acid. PW-5 - inspected and cleaned well pump, transducer and flex pipe.
17-Nov-21	Added bicarbonate to Air Stripper sump box. PW-4, PW-6, PW-7 and PW-8 - inspected and cleaned well pump, transducer and flex pipe.
18-Nov-21	Office Maintenance. Got Supplies.
19-Nov-21	Air Stripper cleaning with power sprayer. Turned System ON. Office maintenance. Unloaded IEG equipment into Shed.
22-Nov-21	Weekly Inspection. Organized equipment in Treatment Room.
23-Nov-21	Got Supplies. Office work.
24-Nov-21	Piezometer Readings. Office work.
27-Nov-21	Checked System. 586 Building SVE System drained. Mixed new batch of Redux solution. Measured height of Treatment Room ceiling.
29-Nov-21	Weekly Inspection. Estimated parts for filter housing installation. Lubricated Blower #1.
30-Nov-21	Picked up and dropped off ceiling fan. Office work. Turned System OFF. Changed Bag Filters.

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 11/2021

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Redux Line Valve Leaking	Valve on Redux line was leaking. Replaced with stainless steel valve.	Feb-21
PZ-2C is missing the Top Cover	PZ-2C was missing top cover after snowplow cleared parking lot. Filled inner ring with gravel / soil to reduce pedestrian tripping hazard. Replaced Top Cover and removed gravel from inside the inner ring.	Mar-21
Wells in Groups PW-2 and PW-3 are covered with material	Some wells in Groups PW-2 and PW-3 were covered with gravel and soil from snowplowing of gravel parking lot. Found and uncovered wells.	Apr-21
Drums of Sludge and Used Filters	Had 1 drum of used bag filters and 4 drums of sludge/water from well purges and EQ Tank cleanout. Consolidated 4 sludge drums into 2 drums. Added 3 bags of cement to sludge during consolidation process. Disposed drums.	May-21
PW-5 is Pumping Very Slowly	PW-7 was ON most of the time. Suspected sludge buildup in horizontal line. Replaced pump with more powerful pump.	May-21
Effluent Meter	Cleaned Effluent Meter inside. Effluent Meter stopped working and was replaced. (old meter read 87,585,383 on 6/21/21)	Jun-21
MW-14 Inner Ring pulled up	MW-14 was pushed up/out of ground by snowplow. Covered riser/hole with stones. Sealed well with concrete. Brought area up to grade with gravel.	Aug-21
SVE System Top Section Fell Off	The SVE System on the NE corner of Building 574 was damaged possibly by high winds. The top most section of the exhaust pipe fell to the ground. Hired contractor to reinstall the top section.	Sep-21
AutoDialer Panel is Frozen	Replaced batteries. AutoDialer Panel is still frozen. Had contractor reprogram unit.	Sep-21
Air Stripper Exhaust Stack is Corroded	The Air Stripper Exhaust Stack on the roof is severely corroded. Inspect and replace the unit as necessary. Had contractor replace the stack.	Sep-21
Man-door lockset is difficult during hot temperatures.	The Man-door lockset is difficult to open with a key during hot weather when the metal door expands. Grinded the keeper and lubricated the lockset.	Aug-21
Inspect Fire Extinguisher	The NYS Fire Inspector revealed that the Treatment Room Fir Extinguisher needed to be inspected. Took the unit to Hanes Supply for an inspection.	Aug-21
MPI-6S Inner Bracket is Difficult to Remove	The Inner Bracket of MPI-6S has become very difficult to remove for Piezometer Readings. Grinded the tips of the bracket to ease removal.	Aug-21
Cool Treatment Room	Treatment Room temperature can go above 90 degrees in summer. To increase outside air inflow into room, cut new locking position on frame so door can be closed with a 2" opening at bottom. Monitor and adjust if warranted.	Monitor
Filter Housings are corroded	Flanges that seal filter baskets inside Rosedale Filter Housings are corroded. Sediment flows around filters instead of being trapped. Replaced seals in existing housings and patched as needed (short term). Replace housings (long term).	Monitor
Repair Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	Monitor
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	Monitor
PW-4 UE Level	Asphalt around Underground Enclosure has sunk, and is vulnerable to damage. Bring pavement up to level with asphalt patch. Inspect and repair when warranted.	Monitor
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	Currently draining pipe weekly
Fan Shroud is broken	Shroud over SVE fan unit of Building 594 Main St is broken. It is located in the alley between two buildings and is approximately 12' high. Replaced the broken shroud with a new unit.	Oct-21

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 11/2021

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Check SVE Fans	Check on status of subslab fan units	in progress
MPI-5S is Damaged	MPI-5S was damaged by snowplow. Notified Intrepid Auto and their maintenance personnel fill inner ring with gravel as a temporary fix. Replace inner ring.	in progress
MW-8 is Damaged	MW-8 was damaged by a snowplow. Let IA, Inc. know and have their maintenance personnel fill inner ring with gravel as a temporary fix. Replace inner ring.	in progress
ABB Meter stopped working	The backup Effluent Meter stopped working. Assess need to replace unit if not serviceable. Unit is not sericeable.	in progress
Influent Pipe joint is Leaking	The Influent Pipe is leaking a glue like substance at a joint where the Redux Solution feed fitting is installed. The Redux appears to have liquified the PVC cement over a period of several years. Move fitting to non-joint pipe location.	in progress
Retrieve Bailer in PW-7	The sampling bailer repeatedly snagged on something while taking well samples. The line broke and the bailer fell to the bottom. Retrieve the bailer and design a weighted bailer system that resists snagging.	in progress
Leak in Right Filter Housing	A corrosion leak started in the Right Filter Housing. Turned off and drained system. Used plumbing epoxy to seal the leak.	Oct-21

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2021

as of Nov 2021

ID	CLEAN & INSPECT PUMP	REPLACED PUMP	REPAIR PUMP	PITLESS ADAPTER	INNER RING	CLEAN & INSPECT FLEXIBLE PIPE	CHECK VALVE	CLEAN & INSPECT TRANSDUCER	REPLACE TRANSDUCER	PUMP OUT WELL	PIEZOMETERS	REPLACE ANEROID BELLOWS	CLEAN OUT & INSPECT ELECTRICAL BOX	ELECTRICAL BOX REPAIR
RW - 1	Jan 08, May 10, Jan 12, Oct 15, Oct 17	Feb 08, Jan 12	May 10, Nov 08					May 10, Jan 12, Oct 15, Oct 17			PZ-1B repaired Sep 16, Jun 19			
PW - 2	Jun 08, Aug 09, May 10, Apr 13, Sep 15, Oct 16, Oct 17	Jul 08, Apr 13 Dec 15				Sep-15		Nov 11, May 10, Apr 13 Dec 15, Oct 16, Oct 17	Sep 09, Dec 11	Aug-09			Nov-11	Sep-09
PW - 3	Jun 08, Aug 09, May 10, Sep 15, Oct 16, Oct 17	Jul 08, Dec 11, Oct 15		Repair adapter		Sep-15		Aug 09, Nov 11, Oct 15, Oct 16, Oct 17	Dec 11, Sep 15	Aug-09			Nov 11, Sep 15	
PW - 4	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15, Oct 16, Oct 17, Oct 18, Sep 19, Aug 20, Jun21, Nov 21	Dec 07, Jan 12	Sep-13		Aug 13	Oct 16, Oct 18, Aug 20, Jun 21, Nov 21		May 10, Nov 11, Oct 15, Oct 16, Oct 17, Oct 18, Sep 19, Aug 20, Jun21, Nov 21	Dec 11, Mar 08, Sep 08	Jul 09, Sep 09	PZ-4B replaced Sep 16, PZ-4D replaced Apr 17	Oct 16	Sep 09, Nov 11, Oct 16	Sep-09
PW - 5	Jan 12, May 08, Oct 15, Nov 16, Oct 17, Oct 18, Sep 19, Aug 20, May21, Nov 21	Jul 08, Jan 12, May 21				Nov 16, Oct 18, Aug 20, May 21, Nov 21		Mar 11, Oct 15, Nov 16, Oct 17, Oct 18, Sep 19, Aug 20, May 21, Nov 21	Jan 12, Sep 08				Jan 12, Sep 19	
PW - 6	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15, Apr 17, Oct 17, Oct 18, Sep 19, Aug 20, Jun 21, Nov 21	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15		Replaced Aug 15		Jul 12, Nov 12, Sep 15, Apr 17, Oct 18, Aug 20, Jun 21, Nov 21	Aug 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15, Apr 17, Oct 17, Dec 17, Oct 18, Sep 19, Aug 20, Jun 21, Nov 21	Sep 09, Sep 15, Jan 18	Aug-09	PZ-6A, PZ-6C repaired Sep 16	Aug 15	Aug 09, Sep 09, Sep 15	Jul 09, Sep 09
PW - 7	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15, Nov 11, Oct 17, Oct 18. Sep 19, Aug 20, Jun 21, Nov 21	Nov 07, Jul 09, Oct 10, Nov 12		Replaced Aug 15		Jul 12, Nov 12, Nov 16, Oct 18, Aug 20, Jun 21, Nov 21	Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15, Nov 16, Oct 17, Oct 18, Sep 19, Aug 20, Jun 21, Nov 21		Aug 09, May 10, Aug 11	PZ-7D clean out product			
PW - 8	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15, Apr 17, Oct 17, Oct 18, Sep 19, Aug 20, Aug 21, Nov 21	Jul 08, Sep 09, Aug 11, Dec 12		Replaced Aug 15		Pipe Aug 09, Jul 12, Sep 15, Apr 17, Oct 18, Aug 20, Aug 21, Nov 21	Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15, Apr 17, Oct 17, Oct 18, Sep 19, Aug 20, Jun 21, Nov 21		Aug 09, May 10, Aug 11		Aug 15	Apr 13, Aug 15	Apr-13

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2021

as of Nov 2021

ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS NEW INNER RING	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	PITLESS ADAPTER	NEEDS FLEXIBLE LINE PURGE	NEEDS CHECK VALVE INSPECTION	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	PIEZOMETERS	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANED	NEEDS U.E. REPAIR
RW-1	NO	NO	**YES**		NO		NO		NO	NO		NO	NO	YES - bolts
PW-2	NO	NO	NO		NO		NO		NO	NO	MW-14 needs to be closed	NO	NO	YES - bolts
PW-3	NO	NO	NO		NO		NO		NO	NO		NO	NO	NO
PW-4	NO	NO	NO		NO		NO		NO	NO		NO	NO	NO
PW-5	NO	NO	NO		NO		NO		NO	NO		NO	NO	NO
PW-6	NO	NO	NO		NO		NO		NO	NO	PZ-6A and PZ-6C are damaged	NO	NO	DONE
PW-7	NO	NO	NO		NO		NO		NO	NO		NO	NO	NO
PW-8	NO	NO	NO		NO		NO		NO	NO		NO	NO	NO

MR. C's DRY CLEANERS SITE

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 2-Nov-21 *ACTIVITIES:* Site Inspection

INSPECTION PERSONNEL: R. Allen *OTHER PERSONNEL:* NYSDEC and E&E, Inc

WEATHER CONDITIONS: Partly cloudy, warm *OUTSIDE TEMPERATURE (°F):* 61

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

RW-1, PW-2 and PW-3 are manually set to OFF position; PW-4 through PW-8 are on AUTO

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: √	OFF:	14	ft	PW-5	ON:	OFF: √	4	ft
PW-2	ON:	OFF: √	11	ft	PW-6	ON:	OFF: √	4	ft
PW-3	ON: √	OFF:	12	ft	PW-7	ON:	OFF: √	6	ft
PW-4	ON:	OFF: √	5	ft	PW-8	ON: √	OFF:	8	ft

EQUALIZATION TANK: 3 ft **Last Alarm D/T/Condition:** 9/3/2021 Air Stripper Low Pressure

NOTES:

INFLUENT FLOW RATE: 0 gpm **INFLUENT TOTALIZER READING:** 21965620 gallons

SEQUESTERING AGENT DRUM LEVEL: 27 inches *(x 1.7=)* *AMOUNT OF AGENT REMAINING:* 50 gallons

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

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

INFLUENT FEED PUMP IN USE: #1 √ #2 *INFLUENT PUMP PRESSURE:* 7 psi

AIR STRIPPER BLOWER IN USE: #1 √ #2 *AIR STRIPPER PRESSURE:* 1.05 (29.1) in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: broken in. H_2O *DISCHARGE PRESSURE:* 2.1 in. H_2O

AIR FLOW : 1350 fpm X 1.4 = 1890 CFM *AIR SPARGER* *LEFT* 6.9 *RIGHT* 2.8 CFM

AIR TEMP: 85.2 °F

EFFLUENT PUMP IN USE: #1 #2 √ *EFFLUENT FEED PUMP PRESSURE:* 5.5 psi

EFFLUENT FLOW RATE: 60 gpm *EFFLUENT TOTALIZER READING:* 292840 (TOTAL = 41590 for 10/04-11/01) gallons

REPLACED WATER METER on 6/25/21: PREVIOUS METER ENDED AT 87,585,383

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

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

WATER LEVEL IN SUMP: 2.0 in. *TREATMENT BUILDING CLEAN & ORGANIZED?* **YES:** √ **NO:**

-

MR. C's DRY CLEANERS SITE

NYSDEC Site #90150157

SITE INSPECTION FORM

2-Nov-21

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:

RW-1 inner ring is corroded. MPI-5S and MW-8 inner rings are damaged.

SUBSLAB SYSTEMS

TREATMENT ROOM

MANOMETER: 1.2 **in. WC** (Fan Inlet)

CONDENSATE ------ **gallon**

DRAINED No

	west	east
FLOW (fpm):		
FLOW (cfm):		
VACUUM GAUGE (in WC)		

NOTES: cfm = 0.05 x fpm (3" PVC)

OTHER LOCATIONS

586 Building SVE CONDENSATE drained: **NO**____ VOLUME: ------ gallon

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

Remarks: There is a slow leak of liquifying PVC cement in the Influent Pipe near the Redux line fitting.

AutoDialer - Code 12

Other Actions:

MR. C's DRY CLEANERS SITE

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 16-Nov-21 *ACTIVITIES:* Site Inspection

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

WEATHER CONDITIONS: Cloudy, cool *OUTSIDE TEMPERATURE (°F):* 41

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

RW-1, PW-2 and PW-3 are manually set to OFF position; PW-4 through PW-8 are on AUTO

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON:		OFF:	√	14	ft	PW-5	ON:		OFF:	√	7	ft
PW-2	ON:		OFF:	√	11	ft	PW-6	ON:		OFF:	√	6	ft
PW-3	ON:		OFF:	√	12	ft	PW-7	ON:		OFF:	√	6	ft
PW-4	ON:		OFF:	√	3	ft	PW-8	ON:		OFF:	√	7	ft

EQUALIZATION TANK: 3 ft **Last Alarm D/T/Condition:** 9/3/2021 Air Stripper Low Pressure

NOTES:

INFLUENT FLOW RATE: 9 gpm **INFLUENT TOTALIZER READING:** 22036088 gallons

SEQUESTERING AGENT DRUM LEVEL: 12 inches *(x 1.7=)* *AMOUNT OF AGENT REMAINING:* 21 gallons

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

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

INFLUENT FEED PUMP IN USE: #1 √ #2 *INFLUENT PUMP PRESSURE:* 7 psi

AIR STRIPPER BLOWER IN USE: #1 √ #2 *AIR STRIPPER PRESSURE:* 1.15 (32) in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: broken in. H_2O *DISCHARGE PRESSURE:* 2.0 in. H_2O

AIR FLOW : 1250 fpm X 1.4 = 1750 CFM *AIR SPARGER* *LEFT* 6.8 *RIGHT* 2.7 CFM

AIR TEMP: 87.2 °F

EFFLUENT PUMP IN USE: #1 #2 √ *EFFLUENT FEED PUMP PRESSURE:* 5 psi

EFFLUENT FLOW RATE: 62 gpm *EFFLUENT TOTALIZER READING:* 329,590 gallons

ARE BUILDING HEATERS IN USE? **YES:** √ **NO:** *INSIDE TEMPERATURE (°F):* 66.3

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

WATER LEVEL IN SUMP: 2.0 in. *TREATMENT BUILDING CLEAN & ORGANIZED?* **YES:** √ **NO:**

-

MR. C's DRY CLEANERS SITE

NYSDEC Site #90150157

SITE INSPECTION FORM

16-Nov-21

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:

RW-1 inner ring is corroded. MPI-5S and MW-8 inner rings are damaged.

SUBSLAB SYSTEMS

TREATMENT ROOM

MANOMETER:	**1.2** **in. WC**		west	east	***NOTES:*** cfm = 0.05 x fpm (3" PVC)
(Fan Inlet)		**FLOW (fpm):**			
CONDENSATE	**------** **gallon**	**FLOW (cfm):**			
DRAINED	**No**	**VACUUM GAUGE (in WC)**			

OTHER LOCATIONS

586 Building SVE CONDENSATE drained: **YES** √ **NO** ____ VOLUME: **0.5** gallon

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

Remarks: There is a slow leak of liquifying PVC cement in the Influent Pipe near the Redux line fitting.

AutoDialer - Code 12

Other Actions: Shut System OFF Nov 16.

Installed vent cover over man-door.

Inspected and cleaned Pump Wells: PW-4, PW-5, PW-6, PW-7 and PW-8.

Cleaned Air Stripper with acid and power sprayer. Adjusted the pH in Air Stripper sump box with Bicarbonate

before discharge.

MR. C's DRY CLEANERS SITE

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 29-Nov-21 *ACTIVITIES:* Site Inspection

INSPECTION PERSONNEL: R. Allen *OTHER PERSONNEL:* Caroll Heating

WEATHER CONDITIONS: Cloudy, cool *OUTSIDE TEMPERATURE (°F):* 34

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

RW-1, PW-2 and PW-3 are manually set to OFF position; PW-4 through PW-8 are on AUTO

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON:		OFF:	√	14 ft	PW-5	ON:		OFF: √ 7 ft
PW-2	ON:		OFF:	√	11 ft	PW-6	ON:		OFF: √ 7 ft
PW-3	ON:		OFF:	√	11 ft	PW-7	ON:		OFF: √ 7 ft
PW-4	ON:		OFF:	√	7 ft	PW-8	ON:		OFF: √ 7 ft

EQUALIZATION TANK: 3 ft **Last Alarm D/T/Condition:** 9/3/2021 Air Stripper Low Pressure

NOTES:

INFLUENT FLOW RATE: 0 gpm **INFLUENT TOTALIZER READING:** 22087675 gallons

SEQUESTERING AGENT DRUM LEVEL: 31 inches *(x 1.7=)* *AMOUNT OF AGENT REMAINING:* 53 gallons

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

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

INFLUENT FEED PUMP IN USE: #1 √ #2 *INFLUENT PUMP PRESSURE:* 7 psi

AIR STRIPPER BLOWER IN USE: #1 √ #2 *AIR STRIPPER PRESSURE:* 1.1 (30.5) psi

AIR STRIPPER DIFFERENTIAL PRESSURE: broken in. H_2O *DISCHARGE PRESSURE:* 2.2 in. H_2O

AIR FLOW : 1300 fpm X 1.4 = 1820 CFM *AIR SPARGER* *LEFT* 7.0 *RIGHT* 3.0 CFM

AIR TEMP: 83.6 °F

EFFLUENT PUMP IN USE: #1 #2 √ *EFFLUENT FEED PUMP PRESSURE:* 5 psi

EFFLUENT FLOW RATE: 61 gpm *EFFLUENT TOTALIZER READING:* 357,340 gallons

ARE BUILDING HEATERS IN USE? **YES:** √ **NO:** *INSIDE TEMPERATURE (°F):* 62

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

WATER LEVEL IN SUMP: 4.0 in. *TREATMENT BUILDING CLEAN & ORGANIZED?* **YES:** √ **NO:**

-

MR. C's DRY CLEANERS SITE

NYSDEC Site #90150157

SITE INSPECTION FORM

29-Nov-21

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:

RW-1 inner ring is corroded. MPI-5S and MW-8 inner rings are damaged.

SUBSLAB SYSTEMS

TREATMENT ROOM

MANOMETER: 1.2 **in. WC** (Fan Inlet)

CONDENSATE ------ **gallon**

DRAINED No

	west	east
FLOW (fpm):		
FLOW (cfm):		
VACUUM GAUGE (in WC)		

NOTES: cfm = 0.05 x fpm (3" PVC)

OTHER LOCATIONS

586 Building SVE CONDENSATE drained: **YES** √ VOLUME: **0.5** gallon

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

Remarks: There is a slow leak of liquifying PVC cement in the Influent Pipe near the Redux line fitting.

AutoDialer - Code 12

Other Actions: Estimate parts for new Bag Filter installation.

Lubricated Blower #1.

Changed Bag Filters.

Installed Treatment Room ceiling fan with electrical switch.

Secured loose BK wire and thermostat wire above overhead door.

MR. C's DRY CLEANERS SITE
NYSDEC Site #9-15-157
OM&M: PIEZOMETER WATER LEVEL LOG

Date: 24-Nov-21 **Measurements taken by:** R. Allen

RW-1	11.10 ft	Comments:		PW-5	20.70 ft	Comments:	
PZ-1A	10.86 ft	Comments:		PZ-5A	10.31 ft	Comments:	String
PZ-1B	10.61 ft	Comments:		PZ-5B	10.33 ft	Comments:	
PZ-1C	11.78 ft	Comments:		PZ-5C	9.94 ft	Comments:	
PZ-1D	11.92 ft	Comments:		PZ-5D	10.75 ft	Comments:	
PW-2	10.50 ft	Comments:		PW-6	21.20 ft	Comments:	
PZ-2A	10.43 ft	Comments:		PZ-6A	11.29 ft	Comments:	
PZ-2B	10.78 ft	Comments:		PZ-6B	11.15 ft	Comments:	
PZ-2C	10.25 ft	Comments:		PZ-6C	11.22 ft	Comments:	
MW-7	10.79 ft	Comments:	Substitute for 2D	PZ-6D	11.19 ft	Comments:	Shown as RW-2 on map
PW-3	11.00 ft	Comments:		PW-7	17.80 ft	Comments:	
PZ-3A	10.90 ft	Comments:		MPI-6S	10.43 ft	Comments:	
PZ-3B	11.03 ft	Comments:		PZ-7B	11.00 ft	Comments:	
PZ-3C	11.50 ft	Comments:		OW-B	10.91 ft	Comments:	
PZ-3D	11.01 ft	Comments:		PZ-7D	10.68 ft	Comments:	String
PW-4	15.90 ft	Comments:		PW-8	19.70 ft	Comments:	
PZ-4A	11.18 ft	Comments:		PZ-8A	7.84 ft	Comments:	
PZ-4B	10.54 ft	Comments:		PZ-8B	7.80 ft	Comments:	
PZ-4C	------ ft	Comments:	sealed over	PZ-8C	7.47 ft	Comments:	
PZ-4D	10.06 ft	Comments:		PZ-8D	7.71 ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS

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