



ecology and environment engineering and geology, p.c.

Environmental Specialists

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October 17, 2021

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
August 2021 Operations, Maintenance, and Monitoring Report

Dear Mr. Long:

Ecology and Environment Engineering and Geology, P.C. (E&E) is pleased to provide the August 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 August 2021 reporting period, the treatment system was in operation from August 4, 2021 through August 30, 2021. The monthly OM&M sampling was performed on August 5, 2021, and the results were received from Eurofins on August 13, 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 August 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 August 4, 2021 through August 30, 2021, had an approximate operational up-time of 100%, and 68,120 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 August 5, 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 August 5, 2021 samples revealed the total volatile organic contaminant concentrations of the influent to 4,056.0 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 July 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.

Mr. Payson Long, Project Manager

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- The Mr. C's treatment system, based on the total flows from the uptime operations and the August 5, 2021 sampling results, removed 2.31 lbs. of targeted contaminants from the groundwater between August 4, 2021 and August 30, 2021. The cleanup effectiveness for August 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.

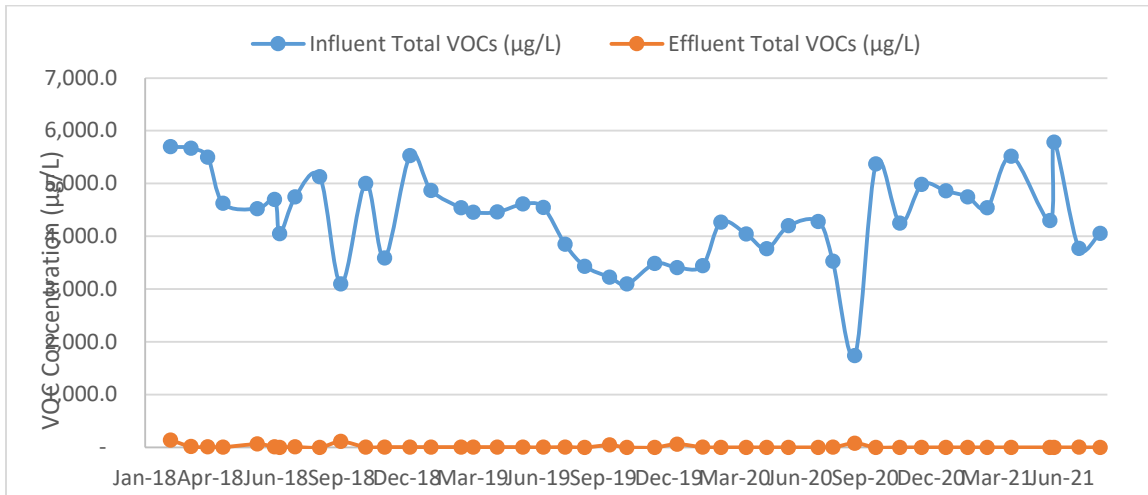


Figure 1: Monthly Influent and Effluent VOC concentrations - 2018 - 2021.

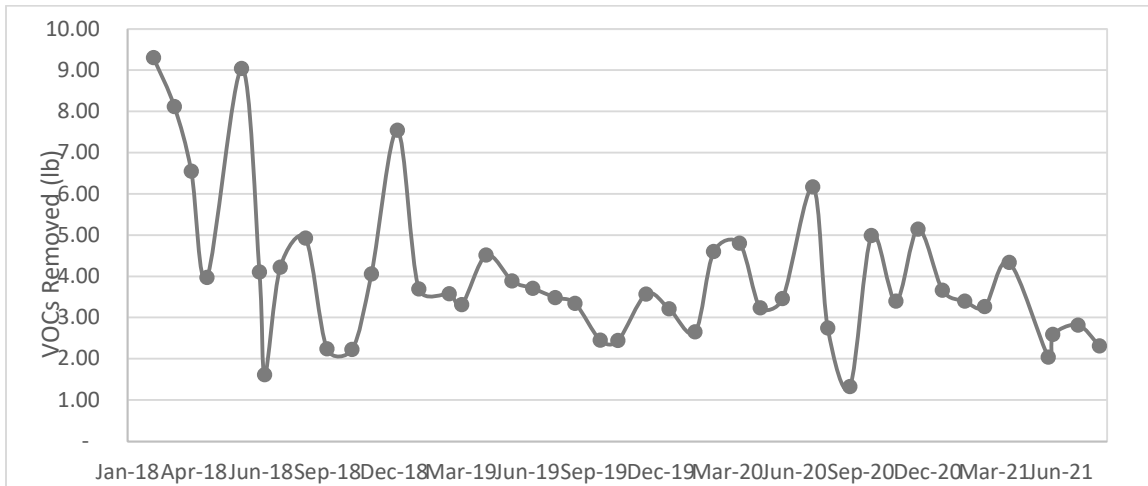


Figure 2: Mass of VOCs removed each month - 2018 - 2021.

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

Mr. Payson Long, Project Manager

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Very Truly Yours,

Ecology and Environment Engineering and Geology, P. C.

A handwritten signature in black ink that reads "Rebecca Knappert". The signature is written in a cursive style with a large initial 'R' and 'K'.

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)		156,098	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
<i>Total in 2021</i>		5,448	95.38%	624,826	NA	NA	24.41
<i>Total from startup</i>		161,546	91.89%	136,218,355	NA	NA	1,861.62

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:

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

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	August 5, 2021 Effluent Analytical Values
Flow (Average) ²	N/A	gpd	2,523
pH	6.0 - 9.0	standard units	8.1
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	508
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:
August 4, 2021 through August 30, 2021 = 2,523 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
NR

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

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

Compound	Based on the August 5, 2021 Effluent Analytical Results				
	Influent Concentration		Effluent Concentration		Treatment Efficiency*
	(ug/L)		(ug/L)		(%)
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		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)	9.6	J	ND(<1.0)	U	100.00%
Methyl acetate	ND(<100)	U	ND(<2.5)	U	NA
Tetrachloroethene (PCE)	2,100		ND(<1.0)	U	100.00%
Toluene	ND(<40)	U	ND(<1.0)	U	NA
Trichloroethene (TCE)	490		ND(<1.0)	U	100.00%
Carbon Disulfide	ND(<40)	U	ND(<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	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	56		ND(<1.0)	U	100.00%
Total Xylenes	ND(<80)	U	ND(<2.0)	U	NA
TOTAL:	4,056		0.0		100.00%

Notes:

1. The efficiency cleanup values are calculated based on the August 5, 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 Equivalency 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: J188043
Sampled by IEG: August 5, 2021
Report Received: August 13, 2021

ANALYTICAL REPORT

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

Laboratory Job ID: 480-188043-1
Client Project/Site: OM&M Treatment System
Sampling Event: OM&M Treatment System

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

Attn: Ashlee Smith



Authorized for release by:
8/13/2021 12:40:13 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

LINKS

Review your project
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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

Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Job ID: 480-188043-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-188043-1

Comments

No additional comments.

Receipt

The samples were received on 8/5/2021 3:30 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 4.6° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-188043-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-592317 recovered outside control limits for the following analytes: Chlorodibromomethane, Bromoform and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: DISCHARGE (480-188043-1), EFFLUENT (480-188043-2) and INFLUENT (480-188043-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-592317 recovered above the upper control limit for Carbon tetrachloride, Chlorodibromomethane, and 1,2-Dibromo-3-Chloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: DISCHARGE (480-188043-1), EFFLUENT (480-188043-2) and INFLUENT (480-188043-3).

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: EFFLUENT (480-188043-2) and INFLUENT (480-188043-3).

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: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: DISCHARGE

Lab Sample ID: 480-188043-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.20	J	1.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: EFFLUENT

Lab Sample ID: 480-188043-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	508		4.0	1.1	mg/L	1		SM 2340C	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.2	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: INFLUENT

Lab Sample ID: 480-188043-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400		40	32	ug/L	40		8260C	Total/NA
Methyl tert-butyl ether	9.6	J	40	6.4	ug/L	40		8260C	Total/NA
Tetrachloroethene	2100		40	14	ug/L	40		8260C	Total/NA
Trichloroethene	490		40	18	ug/L	40		8260C	Total/NA
Vinyl chloride	56		40	36	ug/L	40		8260C	Total/NA
Hardness as calcium carbonate	516		4.0	1.1	mg/L	1		SM 2340C	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.0	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: DISCHARGE

Lab Sample ID: 480-188043-1

Date Collected: 08/05/21 00:00

Matrix: WW

Date Received: 08/05/21 15:30

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			08/10/21 14:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			08/10/21 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			08/10/21 14:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/10/21 14:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/10/21 14:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/10/21 14:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			08/10/21 14:32	1
1,2-Dibromo-3-Chloropropane	1.0	U**	1.0	0.39	ug/L			08/10/21 14:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			08/10/21 14:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			08/10/21 14:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/10/21 14:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			08/10/21 14:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			08/10/21 14:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			08/10/21 14:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			08/10/21 14:32	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			08/10/21 14:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			08/10/21 14:32	1
Acetone	10	U	10	3.0	ug/L			08/10/21 14:32	1
Benzene	1.0	U	1.0	0.41	ug/L			08/10/21 14:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			08/10/21 14:32	1
Bromoform	1.0	U**	1.0	0.26	ug/L			08/10/21 14:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			08/10/21 14:32	1
Carbon disulfide	0.20	J	1.0	0.19	ug/L			08/10/21 14:32	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			08/10/21 14:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			08/10/21 14:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/10/21 14:32	1
Chloroform	1.0	U	1.0	0.34	ug/L			08/10/21 14:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			08/10/21 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			08/10/21 14:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			08/10/21 14:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			08/10/21 14:32	1
Dibromochloromethane	1.0	U**	1.0	0.32	ug/L			08/10/21 14:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			08/10/21 14:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			08/10/21 14:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			08/10/21 14:32	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			08/10/21 14:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			08/10/21 14:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			08/10/21 14:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			08/10/21 14:32	1
Styrene	1.0	U	1.0	0.73	ug/L			08/10/21 14:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/10/21 14:32	1
Toluene	1.0	U	1.0	0.51	ug/L			08/10/21 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			08/10/21 14:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			08/10/21 14:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			08/10/21 14:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			08/10/21 14:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			08/10/21 14:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			08/10/21 14:32	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: DISCHARGE

Lab Sample ID: 480-188043-1

Date Collected: 08/05/21 00:00

Matrix: WW

Date Received: 08/05/21 15:30

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		08/10/21 14:32	1
4-Bromofluorobenzene (Surr)	97		73 - 120		08/10/21 14:32	1
Dibromofluoromethane (Surr)	102		75 - 123		08/10/21 14:32	1
Toluene-d8 (Surr)	99		80 - 120		08/10/21 14:32	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-188043-2

Date Collected: 08/05/21 00:00

Matrix: WW

Date Received: 08/05/21 15:30

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			08/10/21 14:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			08/10/21 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			08/10/21 14:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			08/10/21 14:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			08/10/21 14:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			08/10/21 14:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			08/10/21 14:55	1
1,2-Dibromo-3-Chloropropane	1.0	U **	1.0	0.39	ug/L			08/10/21 14:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			08/10/21 14:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			08/10/21 14:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/10/21 14:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			08/10/21 14:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			08/10/21 14:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			08/10/21 14:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			08/10/21 14:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			08/10/21 14:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			08/10/21 14:55	1
Acetone	10	U	10	3.0	ug/L			08/10/21 14:55	1
Benzene	1.0	U	1.0	0.41	ug/L			08/10/21 14:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			08/10/21 14:55	1
Bromoform	1.0	U **	1.0	0.26	ug/L			08/10/21 14:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			08/10/21 14:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			08/10/21 14:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			08/10/21 14:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			08/10/21 14:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			08/10/21 14:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			08/10/21 14:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			08/10/21 14:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			08/10/21 14:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			08/10/21 14:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			08/10/21 14:55	1
Dibromochloromethane	1.0	U **	1.0	0.32	ug/L			08/10/21 14:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			08/10/21 14:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			08/10/21 14:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			08/10/21 14:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			08/10/21 14:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			08/10/21 14:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			08/10/21 14:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			08/10/21 14:55	1
Styrene	1.0	U	1.0	0.73	ug/L			08/10/21 14:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			08/10/21 14:55	1
Toluene	1.0	U	1.0	0.51	ug/L			08/10/21 14:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			08/10/21 14:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			08/10/21 14:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			08/10/21 14:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			08/10/21 14:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			08/10/21 14:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			08/10/21 14:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-188043-2

Date Collected: 08/05/21 00:00

Matrix: WW

Date Received: 08/05/21 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		08/10/21 14:55	1
4-Bromofluorobenzene (Surr)	90		73 - 120		08/10/21 14:55	1
Dibromofluoromethane (Surr)	101		75 - 123		08/10/21 14:55	1
Toluene-d8 (Surr)	98		80 - 120		08/10/21 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	508		4.0	1.1	mg/L			08/12/21 12:17	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1	HF	0.1	0.1	SU			08/06/21 13:28	1
Temperature	20.2	HF	0.001	0.001	Degrees C			08/06/21 13:28	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: INFLUENT

Lab Sample ID: 480-188043-3

Date Collected: 08/05/21 00:00

Matrix: WW

Date Received: 08/05/21 15:30

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			08/10/21 15:18	40
1,1,2,2-Tetrachloroethane	40	U	40	8.4	ug/L			08/10/21 15:18	40
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	40	12	ug/L			08/10/21 15:18	40
1,1,2-Trichloroethane	40	U	40	9.2	ug/L			08/10/21 15:18	40
1,1-Dichloroethane	40	U	40	15	ug/L			08/10/21 15:18	40
1,1-Dichloroethene	40	U	40	12	ug/L			08/10/21 15:18	40
1,2,4-Trichlorobenzene	40	U	40	16	ug/L			08/10/21 15:18	40
1,2-Dibromo-3-Chloropropane	40	U **	40	16	ug/L			08/10/21 15:18	40
1,2-Dibromoethane	40	U	40	29	ug/L			08/10/21 15:18	40
1,2-Dichlorobenzene	40	U	40	32	ug/L			08/10/21 15:18	40
1,2-Dichloroethane	40	U	40	8.4	ug/L			08/10/21 15:18	40
1,2-Dichloropropane	40	U	40	29	ug/L			08/10/21 15:18	40
1,3-Dichlorobenzene	40	U	40	31	ug/L			08/10/21 15:18	40
1,4-Dichlorobenzene	40	U	40	34	ug/L			08/10/21 15:18	40
2-Butanone (MEK)	400	U	400	53	ug/L			08/10/21 15:18	40
2-Hexanone	200	U	200	50	ug/L			08/10/21 15:18	40
4-Methyl-2-pentanone (MIBK)	200	U	200	84	ug/L			08/10/21 15:18	40
Acetone	400	U	400	120	ug/L			08/10/21 15:18	40
Benzene	40	U	40	16	ug/L			08/10/21 15:18	40
Bromodichloromethane	40	U	40	16	ug/L			08/10/21 15:18	40
Bromoform	40	U **	40	10	ug/L			08/10/21 15:18	40
Bromomethane	40	U	40	28	ug/L			08/10/21 15:18	40
Carbon disulfide	40	U	40	7.6	ug/L			08/10/21 15:18	40
Carbon tetrachloride	40	U	40	11	ug/L			08/10/21 15:18	40
Chlorobenzene	40	U	40	30	ug/L			08/10/21 15:18	40
Chloroethane	40	U	40	13	ug/L			08/10/21 15:18	40
Chloroform	40	U	40	14	ug/L			08/10/21 15:18	40
Chloromethane	40	U	40	14	ug/L			08/10/21 15:18	40
cis-1,2-Dichloroethene	1400		40	32	ug/L			08/10/21 15:18	40
cis-1,3-Dichloropropene	40	U	40	14	ug/L			08/10/21 15:18	40
Cyclohexane	40	U	40	7.2	ug/L			08/10/21 15:18	40
Dibromochloromethane	40	U **	40	13	ug/L			08/10/21 15:18	40
Dichlorodifluoromethane	40	U	40	27	ug/L			08/10/21 15:18	40
Ethylbenzene	40	U	40	30	ug/L			08/10/21 15:18	40
Isopropylbenzene	40	U	40	32	ug/L			08/10/21 15:18	40
Methyl acetate	100	U	100	52	ug/L			08/10/21 15:18	40
Methyl tert-butyl ether	9.6 J		40	6.4	ug/L			08/10/21 15:18	40
Methylcyclohexane	40	U	40	6.4	ug/L			08/10/21 15:18	40
Methylene Chloride	40	U	40	18	ug/L			08/10/21 15:18	40
Styrene	40	U	40	29	ug/L			08/10/21 15:18	40
Tetrachloroethene	2100		40	14	ug/L			08/10/21 15:18	40
Toluene	40	U	40	20	ug/L			08/10/21 15:18	40
trans-1,2-Dichloroethene	40	U	40	36	ug/L			08/10/21 15:18	40
trans-1,3-Dichloropropene	40	U	40	15	ug/L			08/10/21 15:18	40
Trichloroethene	490		40	18	ug/L			08/10/21 15:18	40
Trichlorofluoromethane	40	U	40	35	ug/L			08/10/21 15:18	40
Vinyl chloride	56		40	36	ug/L			08/10/21 15:18	40
Xylenes, Total	80	U	80	26	ug/L			08/10/21 15:18	40

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: OM&M Treatment System

Job ID: 480-188043-1

Client Sample ID: INFLUENT

Lab Sample ID: 480-188043-3

Date Collected: 08/05/21 00:00

Matrix: WW

Date Received: 08/05/21 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		08/10/21 15:18	40
4-Bromofluorobenzene (Surr)	90		73 - 120		08/10/21 15:18	40
Dibromofluoromethane (Surr)	102		75 - 123		08/10/21 15:18	40
Toluene-d8 (Surr)	98		80 - 120		08/10/21 15:18	40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	516		4.0	1.1	mg/L			08/12/21 12:17	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.3	HF	0.1	0.1	SU			08/06/21 13:31	1
Temperature	20.0	HF	0.001	0.001	Degrees C			08/06/21 13:31	1



eurofins

Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 30 days unless otherwise instructed.

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

Telephone #: (716) 681-8060
 Project Mgr: Ashlee Smith

Invoice To: SAME

P.O. No.: _____

Quote #: _____

Project No: _____

Site Name: Mr Cs GUM&M

Location: East Aurora

Sampler(s): R. Allen

State: NY

1=Field Filtered I=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix
	INFLUENT	8/5/21		G	GW
	INFLUENT			G	GW
	INFLUENT			G	GW 3
	EFFLUENT			G	GW
	EFFLUENT			G	GW
	EFFLUENT			G	GW 3
	DISCHARGE			G	GW 3

List Preservative Code below:

1-42

Containers

# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
			1
			1
			1
			1

Analysis

PH	Hardness	VOCS
✓	✓	✓
		✓
✓	✓	✓
		✓

QA/QC Reporting Notes:

* additional charges may apply

- MA DEP MCP CAM Report" Yes No
- CT DPH RCP Report" Yes No
- Standard No QC
- DQA*
- ASP A* ASP B*
- NI Reduced* NI Full*
- Trer II* Trer IV*
- Other: _____
- State-specific reporting standards

Check if chlorinated



480-188043 Chain of Custody

Relinquished by: Richard Adams Received by: Pat Puz Date: 8/5/21 Time: 1530 Temp °C: _____

E-mail to: ixerenve@gmail.com EDD format: PDF

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

Signature: Richard Adams Signature: Pat Puz Signature: U.6 #1

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev. Nov 2016



Attachment B
IEG Summary of Field Activities

August 2021

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - August 2021

DATE	ACTIVITY
3-Aug-21	Time and Expense Reports. End of Month Summaries. Weekly Inspection. Put gravel over MW-14 to level.
5-Aug-21	Mixed new batch of Redux solution. PW-8 inspection and cleaning. Inspected Air Stripper Exhaust Stack. Treatment Room Sampling.
10-Aug-21	Weekly Inspection. Fire Inspection.
11-Aug-21	Checked System. Took Fire Extinguisher for inspection. Office work.
12-Aug-21	Grinded the Man-door keeper. Returned Fire Extinguisher. Removed large battery from AutoDialer. Searched for new battery.
13-Aug-21	Got Supplies.
16-Aug-21	Weekly Inspection. Office work.
19-Aug-21	Lubricated Man-door lockset. Installed AutoDialer battery. Swept Library Parking Lot.
24-Aug-21	Weekly Inspection. Changed Bag Filters. Office work.
25-Aug-21	Piezometer Readings. Grinded the bracket inside MPI-6S.
27-Aug-21	Checked System. Met with Intrepid Automotive concerning a leak in the basement of Building 574 Main St. Poured decanted filter change water into sump box.
30-Aug-21	Weekly Inspection. Poured remnants of old Redux solution drum into present drum. Office work.

Mr. C's CLEANERS OM&M

STATUS OF FIELD ACTIVITIES BY IEG - 8/2021

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Redux Line Valve Leaking	The valve on the Redux line is leaking. Replace with stainless steel valve.	Feb-21
PZ-2C is missing the Top Cover	PZ-2C was missing top cover after a snowplow cleared the 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 of the wells in Groups PW-2 and PW-3 have been covered with gravel and soil from the snowplowing of the gravel parking lot. Find and uncover 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) drums of sludge into (2) drums. Added (3) bags of cement to the sludge during consolidation process. Disposed drums.	May-21
PW-5 is Pumping Very Slowly	PW-7 in ON most of the time. Suspect sludge buildup in horizontal line. Replace pump with more powerful pump.	May-21
Effluent Meter	Clean Effluent Meter inside. Effluent Meter stopped working and was replaced. (old meter read 87,585,383 on 6/21/21)	Jun-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. Replace seals in existing housings and patch 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 fan unit of Outdoor Store is broken - it is located down alley between two buildings and is approximately 12' high.	in progress
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. Take unit apart to see if it is serviceable. Assess need to replace unit if not serviceable.	in progress
MW-14 Inner Ring pulled up	MW-14 was pushed up and out of ground by snowplow. Covered riser and hole with stones. Sealed well with concrete and brought up to grade with parking lot.	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. Hire a contractor to reinstall the top section.	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
AutoDialer Panel is Frozen	Replaced batteries. AutoDialer Panel is still frozen. Have unit inspected and fix or replace as needed.	in progress

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 8/2021

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Air Stripper Exhaust Stack is Corroded	The Air Stripper Exhaust Stack on the roof is severely corroded. Inspect and replace the unit as necessary.	in progress
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

Mr. C's CLEANERS OM&M
SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2021

as of Aug 2021

ID	CLEAN & INSPECT PUMP	REPLACED PUMP	REPAIR PUMP	PITLESS ADAPTER	INNER RING	CLEAN & INSPECT HORIZONTAL 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, Jun 21	Dec 07, Jan 12	Sep-13		Aug 13	Oct 16, Oct 18, Aug 20, Jun 21		May 10, Nov 11, Oct 15, Oct 16, Oct 17, Oct 18, Sep 19, Aug 20, Jun 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, May 21	Jul 08, Jan 12, May 21				Nov 16, Oct 18, Aug 20, May 21		Mar 11, Oct 15, Nov 16, Oct 17, Oct 18, Sep 19, Aug 20, May 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	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	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	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 07, Jul 09, Oct 10, Nov 12		Replaced Aug 15		Jul 12, Nov 12, Nov 16, Oct 18, Aug 20, Jun 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		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	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	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		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 Aug 2021

ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS NEW INNER RING	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	PITLESS ADAPTER	NEEDS HORIZONTAL LINE PURGE	NEEDS CHECK VALVE INSPECTION	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	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: 3-Aug-21 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: Caroll Heating

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (° F): 70

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: <input checked="" type="checkbox"/>	OFF: _____	<u>14</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>10</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft
PW-3	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft	PW-7	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>3</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>7</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 7/18/2021 Air Stripper Low Pressure

NOTES: _____

INFLUENT FLOW RATE: 0 gpm INFLUENT TOTALIZER READING: 21585280 gallons

SEQUESTERING AGENT DRUM LEVEL: 4 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 7 gallons

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

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>0</u>	<u>0</u> psi	RIGHT:	<u>8</u>	<u>0</u> psi

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

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 1.5 (41.5) in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: broken in. H₂O DISCHARGE PRESSURE: 2.1 in. H₂O

AIR FLOW: 1400 fpm X 1.4 = 1960 CFM SPARGER LEFT 6.9 RIGHT 2.8 CFM

AIR TEMP: 100.3 °F

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

EFFLUENT FLOW RATE: 60 gpm EFFLUENT TOTALIZER READING: 96780 (TOTAL = 89570 for 6/28-8/3) 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): 80

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

3-Aug-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. MW-14 was knocked out by snowplow.

SUBSLAB SYSTEMS

TREATMENT ROOM

MANOMETER: <u>1.4</u> in. WC	west	east	NOTES: <u>cfm = 0.05 x fpm (3" PVC)</u>
(Fan Inlet)	FLOW (fpm): _____	_____	_____
CONDENSATE <u>-----</u> gallon	FLOW (cfm): _____	_____	_____
DRAINED <u>No</u> VACUUM GAUGE (in WC)	_____	_____	_____

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.

Other Actions: AutoDialer functions are frozen.

Graded over sealed MW-14 with parking lot material from around PZ-3D.

Mixed new batch of Redux solution; 1 Redux : 2 Water.

PW-8 - inspected and cleaned transducer, well pump and flex pipe.

Inspected Air Stripper exhaust stack on roof.

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

DATE: 16-Aug-21 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (° F): 76

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: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>10</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft
PW-3	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft	PW-7	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>3</u> ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 7/18/2021 Air Stripper Low Pressure

NOTES: _____

INFLUENT FLOW RATE: 0 gpm INFLUENT TOTALIZER READING: 21654298 gallons

SEQUESTERING AGENT DRUM LEVEL: 17 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 30 gallons
 SEQUESTERING AGENT FEED RATE: ----- ml/min METERING PUMP PRESSURE: ----- psi

BAG FILTER PRESSURES:	LEFT:	Top	Bottom	RIGHT:	Top	Bottom
		<u>0</u>	<u>0</u> psi		<u>8</u>	<u>0</u> 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. H₂O
 AIR STRIPPER DIFFERENTIAL PRESSURE: broken in. H₂O DISCHARGE PRESSURE: 2.1 in. H₂O
 AIR FLOW: 1500 fpm X 1.4 = 2100 CFM AIR SPARGER LEFT 6.8 RIGHT 2.8 CFM
 AIR TEMP: 103.4 °F

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 5 psi
 EFFLUENT FLOW RATE: 58 gpm EFFLUENT TOTALIZER READING: 128,070 broken gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (° F): 82

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-Aug-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: <u>1.3</u> in. WC	west	east	NOTES: <u>cfm = 0.05 x fpm (3" PVC)</u>
(Fan Inlet)	FLOW (fpm): _____	_____	_____
CONDENSATE _____ gallon	FLOW (cfm): _____	_____	_____
DRAINED <u>No</u> VACUUM GAUGE (in WC)	_____	_____	_____

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.

Other Actions: AutoDialer not working after new battery was installed. LED Panel remained frozen.

Lubricated man-door lockset.

Swept spruce cones and needles from Library Parking Lot.

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

DATE: 30-Aug-21 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: Caroll Heating

WEATHER CONDITIONS: Partly cloudy, hot OUTSIDE TEMPERATURE (° F): 84

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: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>10</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft
PW-3	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft	PW-7	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>3</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 7/18/2021 Air Stripper Low Pressure

NOTES: _____

INFLUENT FLOW RATE: 3 gpm INFLUENT TOTALIZER READING: 21723114 gallons

SEQUESTERING AGENT DRUM LEVEL: 3 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 5 gallons
 SEQUESTERING AGENT FEED RATE: ----- ml/min METERING PUMP PRESSURE: ----- psi

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

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

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 1.05 (29.1) in. H₂O
 AIR STRIPPER DIFFERENTIAL PRESSURE: broken in. H₂O DISCHARGE PRESSURE: 2.9 in. H₂O
 AIR FLOW: 1400 fpm X 1.4 = 1960 CFM SPARGER LEFT 6.9 RIGHT 3.0 CFM
 AIR TEMP: 113.8 °F

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 5 psi
 EFFLUENT FLOW RATE: 62 gpm EFFLUENT TOTALIZER READING: 164,900 broken gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (° F): 94

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

30-Aug-21

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	9:30 am	6.5	6.8	17.8	1820
AIR STRIPPER EFFLUENT:	EFF	9:30 am	7.6	6.6	17.9	1860

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: <u>1.3</u> in. WC	west	east	NOTES: <u>cfm = 0.05 x fpm (3" PVC)</u>
(Fan Inlet)	FLOW (fpm):		
CONDENSATE ----- gallon	FLOW (cfm):		
DRAINED No VACUUM GAUGE (in WC)			

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.

Other Actions: AutoDialer LED Panel remains frozen. Panel stays lit when unplugged with the new batteries installed.

Poured remnants of old Redux solution drum into present drum.

Replaced Air Stripper Exhaust Stack.

Reset and programmed the AutoDialer.

Greased Air Stripper Blower Motor #1.

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

Date: 25-Aug-21

Measurements taken by: R. Allen

RW-1	<u>11.50</u> ft	Comments: _____
PZ-1A	<u>11.42</u> ft	Comments: _____
PZ-1B	<u>11.15</u> ft	Comments: _____
PZ-1C	<u>12.30</u> ft	Comments: _____
PZ-1D	<u>12.45</u> ft	Comments: _____
PW-2	<u>11.00</u> ft	Comments: _____
PZ-2A	<u>10.96</u> ft	Comments: _____
PZ-2B	<u>11.29</u> ft	Comments: _____
PZ-2C	<u>10.78</u> ft	Comments: _____
MW-7	<u>11.30</u> ft	Comments: <u>Substitute for 2D</u>
PW-3	<u>11.50</u> ft	Comments: _____
PZ-3A	<u>11.47</u> ft	Comments: _____
PZ-3B	<u>11.53</u> ft	Comments: _____
PZ-3C	<u>11.96</u> ft	Comments: _____
PZ-3D	<u>11.51</u> ft	Comments: _____
PW-4	<u>20.10</u> ft	Comments: _____
PZ-4A	<u>11.73</u> ft	Comments: _____
PZ-4B	<u>11.34</u> ft	Comments: _____
PZ-4C	<u>-----</u> ft	Comments: <u>sealed over</u>
PZ-4D	<u>10.54</u> ft	Comments: _____

PW-5	<u>16.00</u> ft	Comments: _____
PZ-5A	<u>10.81</u> ft	Comments: _____
PZ-5B	<u>10.86</u> ft	Comments: _____
PZ-5C	<u>10.46</u> ft	Comments: _____
PZ-5D	<u>11.27</u> ft	Comments: _____
PW-6	<u>19.80</u> ft	Comments: _____
PZ-6A	<u>11.79</u> ft	Comments: _____
PZ-6B	<u>11.65</u> ft	Comments: _____
PZ-6C	<u>11.88</u> ft	Comments: _____
PZ-6D	<u>11.69</u> ft	Comments: <u>Shown as RW-2 on map</u>
PW-7	<u>18.10</u> ft	Comments: _____
MPI-6S	<u>11.37</u> ft	Comments: _____
PZ-7B	<u>11.48</u> ft	Comments: _____
OW-B	<u>11.40</u> ft	Comments: _____
PZ-7D	<u>11.14</u> ft	Comments: _____
PW-8	<u>20.20</u> ft	Comments: _____
PZ-8A	<u>8.37</u> ft	Comments: _____
PZ-8B	<u>8.28</u> ft	Comments: _____
PZ-8C	<u>7.95</u> ft	Comments: _____
PZ-8D	<u>8.17</u> ft	Comments: _____

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