PERIODIC REVIEW REPORT FOR PERIOD JANUARY 2018 THROUGH DECEMBER 2018

ROCHESTER FIRE TRAINING ACADEMY 1190 SCOTTSVILLE ROAD ROCHESTER, NEW YORK, 14624 NYSDEC SITE #828015

Prepared For: City of Rochester

Division of Environmental Quality

Rochester, New York

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I. Executive Summary

A. Summary

The Rochester Fire Training Academy (RFA) site (Site) is located on the west bank of the Genesee River at 1190 Scottsville Road in the City of Rochester, Monroe County, New York. A Site location map is included as Figure 1. The Site is divided into five areas, which include the North Disposal Area (NDA), Training Grounds Area (TGA), Police Obstacle Course/Firing Range, South Disposal Area (SDA), and the Genesee Valley Park Area (GVPA). A Site map is included as Figure 2.

Based upon the results of remedial investigation activities, the types of contamination at the Site that were identified to require remediation included:

- Polychlorinated biphenyls (PCB's);
- Heavy metals, including lead and cadmium; and
- Volatile Organic Compounds (VOC's).

Remedial actions performed at the Site in accordance with the March 1993 Record of Decision include:

- Excavation and treatment of selected soils in the SDA and TGA, followed by on-site soil conditioning and placement in the NDA (completed);
- Excavation and off-site disposal of a smaller volume of soils (completed);
- Excavation and placement of GVPA soils in the NDA (completed);
- Restoration of the remediation areas (SDA, TGA and GVPA) (completed);
- Capping of the NDA (completed);
- Groundwater collection and treatment in the SDA (ongoing); and
- General Site management activities (ongoing).

B. Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the Site include continued operation and monitoring of the SDA groundwater collection and treatment system, and maintenance of the associated Site institutional and engineering controls in accordance with the general requirements of the Site Operation and Maintenance Manual. Monitoring data from the work completed to date shows that the remedial program is currently meeting, and has the ability to achieve, the remedial objectives for the Site.

C. Compliance

No areas were identified as being currently out of compliance with the Site management and monitoring program requirements, as described in the current Operation and Maintenance Manual dated December 2017. As such, no steps are currently deemed necessary to correct areas of non-compliance.

D. Recommendations

PRR recommendations and proposed scheduling are detailed in Section VI.C. A summary of these recommendations is provided below.

- 1. Since residual contamination remains on the Site, applicable site management requirements, as specified in the current Operations and Maintenance Manual, should be continued.
- 2. Surface sealing of minor joints and/or cracks is needed on an ongoing basis to maintain the integrity of the TGA cap. An existing open area of excavation at the TGA (see IC/EC Certification attachment, Appendix E) is currently protected from rainfall and infiltration, and the plastic sheeting cover needs to be maintained until construction is completed and a permanent impermeable surface cover is restored to the TGA. For the TGA, Monroe County is responsible for "maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site".

II. Site Overview

The RFA is an active police and fire training academy which has been operated by the City of Rochester since 1954. During the time period from 1954 through 1980, flammable liquids from local industries and other sources were accepted by the RFA as sources of fuel for training purposes. In 1980, the New York State Department of Environmental Conservation (NYSDEC) began investigating the RFA's disposal practices, and subsequently directed the removal of more than 200 drums and numerous chemical reagent bottles from the NDA, SDA, and TGA. While no hazardous waste disposal occurred in the GVPA, some surficial contamination of park grounds did occur adjacent to the site along the Genesee River.

The City of Rochester signed an Order on Consent with the NYSDEC on May 5, 1989 to investigate the extent of contamination and remediate the site. To address the nature of the contamination and determine the most appropriate alternatives to remediate the site, the City retained Malcolm Pirnie, Inc. to conduct a Remedial Investigation/Feasibility Study (RIFS). The RIFS results indicated that area soils were contaminated with polychlorinated biphenyls (PCBs), lead, cadmium, and volatile organic compounds (VOCs). The primary focus was on the TGA, GVPA, and SDA portions of the property. Groundwater contamination at the RFA site, caused by the storage and disposal of solvents, was determined to be essentially confined to the SDA. SDA soils were shown to be contaminated with VOCs as well as PCBs and metals. Soils in the TGA and the GVPA were shown to be contaminated primarily with PCBs and metals.

Based on the results of the RIFS, a NYSDEC Record of Decision was published in March 1993 that specified remedial actions and objectives for the groundwater and soils to meet applicable standards, criteria, and guidelines (SCGs), and to protect human health and the environment. The selected remedy specified that heavily contaminated soils were to be treated and/or removed from the Site, with residual Site contamination to be addressed through natural attenuation supplemented by institutional and engineering controls, including capping/covering select areas for isolation and to minimize infiltration, and groundwater treatment for contaminant removal and hydraulic containment.

Specifically, the remedial design for the site required that soils in the SDA containing total VOCs, PCBs, or cadmium equal to or above 10 mg/kg and/or containing lead concentrations equal to or greater than 250 mg/kg be excavated. The excavated soils were conditioned using a thermal desorber to reduce VOC levels to less than the Action Limit of 10 mg/kg. Following desorption, soils requiring solidification and stabilization were stockpiled in the TGA for additional treatment consisting of mixing the soil with cement and water to form a slurry. The slurry was then placed in the NDA and later capped with a soil/synthetic cover barrier layer. Excavated soils containing PCB concentrations greater than or equal to 50 mg/kg were disposed of off-site.

The groundwater treatment remedial component consists of a groundwater intercept trench and treatment plant installed at the SDA to provide for contaminant removal and a degree of hydraulic containment. Contaminated groundwater is collected via a 191-ft long collection trench, and pumped via a submersible pump station to the Groundwater Treatment System (GWTS) building located on the southwestern portion of the SDA. The GWTS processes groundwater through dual particulate filters and an air stripper to remove VOC's prior to discharge to the Monroe County sanitary sewer system. Operation of the GWTS was initiated in March 1998, and the GWTS discharge is permitted and regulated under a sanitary sewer industrial use permit granted by the Monroe County Department of Pure Waters (MCPW permit #705).

III. Monitoring Plan Compliance and Remedy Evaluation

A. Monitoring Plan Components

Monitoring and laboratory analyses were completed in accordance with the Operations and Maintenance Manual (O&MM) monitoring plan and Sewer Discharge Permit requirements. A summary of the routine monitoring and analyses is provided in the table below. Other site monitoring and inspections are as detailed in Section V.A.

Item	Frequency	Lab Analyses				
Groundwater Monitoring	Semi-Annual	VOCs + MTBE				
Well Sampling		(EPA 601/602)				
GWTS Influent Sampling	Quarterly	VOCs (EPA 624),				
	Pesticides (EPA 608)					
GWTS Effluent Sampling	Monthly	Purgeable Halocarbons,				
		Purgeable Aromatics,				
		pH, flow rate				
	Quarterly	Metals, Pesticides,				
		Diethyl Phthalate				

B. Analytical Monitoring Data

Groundwater sampling from monitoring wells was performed semi-annually throughout the review period in accordance with the schedule and procedures specified in the O&MM (including Appendices E.1 through E.4) and/or in accordance with EPA low-flow monitoring procedures. GWTS sampling was performed in general accordance with Site (O&MM) and current Sewer Use Permit requirements. Samples intended for laboratory analyses were collected and stored in the appropriate polyethylene or glass bottles, preserved in the field, and transferred within allowable hold times to an ELAP-certified laboratory for analysis.

In addition to the routine sampling parameters, and in accordance with NYSDEC's request, a one-time analysis for 1,4-dioxane and perfluoroalkyl substances (PFAS) was conducted upon the groundwater influent to the treatment system and at seven additional monitoring wells. Results from these analyses had not been finalized at time of this report preparation, and will be submitted to NYSDEC separately.

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Summary tables of the most recent monitoring results, including the current reporting period (January through December 2018), are provided in Appendix A, and graphical trend lines and historical well data for select contaminants of concern (1998 through 2018) are included in Appendix B to this report. The upgradient wells MW-6, MW-9, and MW-10 are monitored to establish background groundwater quality. The remaining wells are monitored to establish the downgradient water quality. Refer to Figure 3 for the monitoring well locations.

A full copy of the analytical laboratory reports for analyses completed during the current PRR reporting period are included in Appendix C. A brief evaluation of the data and trends for the three monitored remedial areas is provided below (see Section III.D. for analysis of GWTS analytical data).

NDA: Upgradient well (MW-10I) continues to consistently show MTBE in the 0 to 10 μg/l range. Downgradient well MW-11I has recently exhibited elevated concentrations of vinyl chloride (reported in the range of 245 to 476 μg/l over the past six years, above the historical range of 82 to 273 μg/l observed at this location from 2005 through 2012). MW-11I will continue to be monitored to identify any long-term trends. With the exception of 1,2-dichloroethane (detected in 2008 and 2016 samples, but non-detectable since), no other VOC's have been reported above detectable levels more than once since initiation of monitoring.

TGA: Upgradient well (MW-6I) continues to show vinyl chloride in a fairly consistent range of 0 to 10 μg/l over the past 10-plus years, with a single high level of 14 μg/l reported for 11/30/12. Vinyl chloride at downgradient well MW-8I was consistently reported to be less than 400 μg/l (and usually below 200 μg/l) prior to 2007, after which a singular high result of 850 μg/l was reported. Vinyl chloride concentrations since that time remain slightly elevated compared to prior years, generally in the 150 to 400 μg/l range. No other VOC's have been reported above detectable levels more than once at MW-8I since initiation of monitoring. Benzene at downgradient well MW-15S was detected multiple times at concentrations of up to 291 μg/l in earlier monitoring events (prior to 2006), but benzene concentrations at this location have stabilized, with reported levels consistently below 2 μg/l since that time (non-detectable for the last 7 years).

SDA: Upgradient (MW-9D) and downgradient (MW-7S and MW-7I) wells each experienced increases in one or more of the monitored chlorinated VOC's (TCE, DCE and vinyl chloride) over the period of 2010 to 2013, which directly corresponded to the period of the GWTS shutdown. The elevated VOC concentrations have since predominantly returned to historical, typical ranges following restart of the GWTS in April 2013.

Overall, based upon the analytical results for the current monitoring period, monitoring well concentrations of VOC's in the NDA and TGA were generally observed to remain within their historical stable and consistent ranges, which demonstrates the effectiveness of the cover systems in minimizing contaminant migration. The lone exception to this is an elevated concentration of vinyl chloride observed since 2014 at well MW-11I, located downgradient from the NDA. While vinyl chloride concentrations at MW-11I remain generally consistent and stable over this period, continued monitoring is recommended.

Wells in the SDA were noticeably impacted by the GWTS shutdown period (2010 to 2013); however, the observed and relatively quick restoration of the majority of VOC levels in the SDA wells to pre-shutdown concentration ranges demonstrates the effectiveness of the groundwater intercept trench in providing hydraulic containment, minimizing any migration of the SDA contaminants.

C. GWTS Flow Data

The GWTS is currently specified to be operated continuously (weekends included) to remove contaminants and maintain a depressed groundwater table in the vicinity of the groundwater collection trench. A summary of the annual GWTS flow data (total gallons processed and discharged) over the most recent five year period is as follows:

Period of Operation

Total Flow (gal) Operating Days Avg. Daily Flow (gal)

1 chod of operation									
2014	2014 2015		2017	2018					
1,313,659	1,163,289	1,068,103	1,455,093	1,212,908					
320	349	353	360	332					
4,105	4,105 3,333		4,042	3,653					

D. Contaminant Removal

Based upon measured flowrates and analytical monitoring of the groundwater treatment system influent concentrations, the mass of contaminants (VOC's) removed from the Site by the GWTS for the most recent five-year period is as follows:

Period of Operation

Total Flow
(gal)
Avg. VOC's
(µg/l)
Net VOC
Removal (lb)

	renod of Operation									
	2014	2015	2016	2017	2018					
	1,313,659	1,163,289	1,068,103	1,455,093	1,212,908					
•	12,512	10,562	13,599	9,756	12,219					
)	137	102	122	112	124					

In terms of treatment system effectiveness, effluent data demonstrates that the wastewater treatment system process has proven effective and has generally maintained compliance with the applicable effluent discharge limits since it's time of start-up. The lone exception to this is a single discharge permit exceedance occurring in July of 2009 which was attributed to a faulty flow sensor controlling the operation of the air stripper blower.

E. Air Emissions

Volatile organic compounds (VOCs) liberated from the groundwater are emitted to the outdoor atmosphere in the air discharged from the GWTS air stripper, which has been identified as an air emission point source. The air stripper is exempt from formal permitting requirements; however, monitoring is performed to confirm compliance with NYSDEC-approved air loadings listed in the O&MM. VOC emissions are estimated by mass balance using monitored flow rates, and influent and effluent VOC concentrations. Results are summarized in the chart in Appendix B, which shows that emissions continue to be well within approved levels.

F. Evaluation of Remedy Performance, Effectiveness and Protectiveness

Based upon the results of performance monitoring conducted over the course of time covered by this PRR, the effectiveness of the GWTS and associated Site remedial activities is summarized as follows:

- The GWTS extraction well/trench system is effective at capturing and removing VOC's from the SDA (4,393 pounds removed since startup in 1998).
- The GWTS process is effective and meeting program objectives in treating the extracted groundwater sufficiently to comply with effluent sewer use limits.
- Groundwater depression created by operation of the GWTS appears to be effective and meeting program objectives in providing basic hydraulic containment within the SDA, as evidenced by static water level data and groundwater monitoring results for the wells in this area.
- The Site cap and cover systems appear to be generally effective and meeting program objectives in minimizing the potential for contaminant migration, as evidenced by groundwater monitoring results for the downgradient wells in these areas.

• The long-term efficiency of the remedy (natural attenuation supplemented by VOC removal by the GWTS) in achieving ultimate Site cleanup goals remains undetermined, as long-term trends in groundwater contaminant concentrations remain difficult to discern; however, this is common for natural attenuation, which is a relatively long-term process. The site conditions (including prevalence of vinyl chloride over other chlorinated organic forms) appear to remain amenable to and/or indicative of natural attenuation, and the general stability of the monitoring data demonstrates that the Site activities appear to remain protective of the environment while natural attenuation occurs.

G. Monitoring Deficiencies

Site media monitoring (groundwater and GWTS) was observed to generally comply with the current O&MM monitoring plan and Sewer Discharge Permit requirements. No significant monitoring deficiencies were noted for the 2018 monitoring period.

H. Conclusions and Recommendations for Changes

There are no recommendations for changes or improvements to the current monitoring program.

IV. IC/EC Compliance Report

A. IC/EC Requirements/Compliance

1. A description of source documentation, applicable control, control objective, and how performance of the control is evaluated is provided below:

Operations and Maintenance Manual (O&MM): The objective of the O&MM is to manage Site contamination that remains above regulatory criteria in a manner that is protective of human health and the environment. The O&MM covers management, operations and monitoring of various Institutional and Engineering Controls. The performance of these controls is evaluated through monitoring and periodic certification.

Controls on the Site covered under the O&MM include:

- GWTS Operations (SDA), which are intended to provide for limited removal of VOC's and to provide a degree of hydraulic containment to limit/prevent contaminant migration. The effectiveness of the GWTS is evaluated based on review of static water levels and analytical monitoring data for nearby groundwater monitoring wells and GWTS influent and effluent monitoring data;
- Cover Systems (NDA and TGA), which are intended to limit and/or prevent stormwater infiltration into contaminated soils, preventing migration of contaminants while the soils undergo the natural attenuation process. The effectiveness of the cover system is evaluated based on review of analytical monitoring data from nearby groundwater monitoring wells;
- Site Stormwater Collection System, which is intended to direct stormwater away from the Site and limit and/or prevent stormwater infiltration into area soils, preventing migration of contaminants while the soils undergo the natural attenuation process. The effectiveness of the stormwater collection system is evaluated based on review of analytical monitoring data from nearby groundwater monitoring wells;
- Facility Access System, which is intended to facilitate access to the Site by authorized personnel while limiting unauthorized access to the remedial areas to minimize the potential for vandalism, outside interference with ongoing remedial processes, and potential thirdparty exposure to contaminants. The effectiveness of the access system is evaluated based on review of the condition of these access facilities, and the apparent occurrence (or non-occurrence) of unauthorized access incidents.

Record of Decision: The Record of Decision includes requirement for a deed restriction and requirement for notification and approval from NYSDEC prior to any physical alteration or construction constituting a substantial change to the use of the Site. This is intended to assist in management of soil and historic fill material during future activities that would penetrate, encounter or disturb remaining contamination; to prevent human exposure to contaminants; and to protect the environment from migration of contaminants. The effectiveness of the deed restriction is evaluated by adherence to the DEC notification and approval requirements prior to any change in Site use, and in meeting the objectives of the deed restriction as defined above.

2. Status

Each control is in place, is being adhered to by the City of Rochester, and appears to remain generally effective as of the date of this report.

Several cracks previously observed in the TGA asphalt and concrete cover system have been adequately repaired to minimize infiltration into this area. Surface sealing of minor cracks is needed on an ongoing basis to maintain the integrity of the TGA cap. An existing open area of excavation at the TGA (see IC/EC Certification attachment, Appendix E) is currently protected from rainfall and infiltration, and the plastic sheeting cover needs to be maintained until construction is completed and a permanent impermeable surface cover is restored to the TGA. For the TGA, Monroe County is responsible for "maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site".

3. Corrective Measures

None Required

4. Conclusions and Recommendations for Changes

The controls are being effectively implemented as of the date of this report. While no significant changes are deemed necessary, minor recommendations for maintenance and/or improvements to the existing IC/EC's are as described above and in Section VI of this report.

B. Certification

Certification Statement and forms are included as Appendix E to this report.

V. Operation & Maintenance Manual (O&MM) Compliance Report

A. Components of O&MM

Documentation of Site monitoring and inspections completed in accordance with the O&MM requirements are as indicated in the table below. Copies of these logs and inspection forms are included in Appendix D. Media sampling and analytical monitoring activities are as detailed in Section III.A.

Item	Frequency			
GWTS Operations Log	Daily			
(Flow, maintenance data)	(when site attended)			
Cover System Inspection	Annual			
Stormwater Collection	Annual			
System Inspection				

B. O&MM Activities

O&MM activities completed during the current reporting period include general maintenance for the GWTS, general maintenance of the cover system (vegetation and soil cover maintenance), and general maintenance of the Site fencing. Additional details on Site activities and dates of completion are included in the Site logs and inspection forms included in Appendix D.

C. Evaluation of Remedial Systems

The O&MM activities completed over the reporting period were appropriate to maintain operational and treatment efficiencies, and to enable the remedial systems to function as intended and as designed in order to meet the remedial objectives.

D. O&MM Deficiencies

O&MM activities were completed in substantial accordance with the O&MM, and no significant deficiencies were noted.

E. Conclusions and Recommendations for Improvements

The O&MM was recently revised in December 2016 to reflect and document changes to the GWTS and the associated monitoring program that have occurred since the original OM&M was prepared in 1999.

No additional improvements to the O&MM are recommended at this time.

VI. Conclusions and Recommendations

A. Compliance

With exceptions as noted, the requirements of the following plans were met during the reporting period:

- IC/EC requirements.
- Monitoring Plan requirements.
- O&MM requirements.

B. Performance and Effectiveness of Remedy

An evaluation of the components of the O&MM during this reporting period indicates that, as of the end date of this monitoring period:

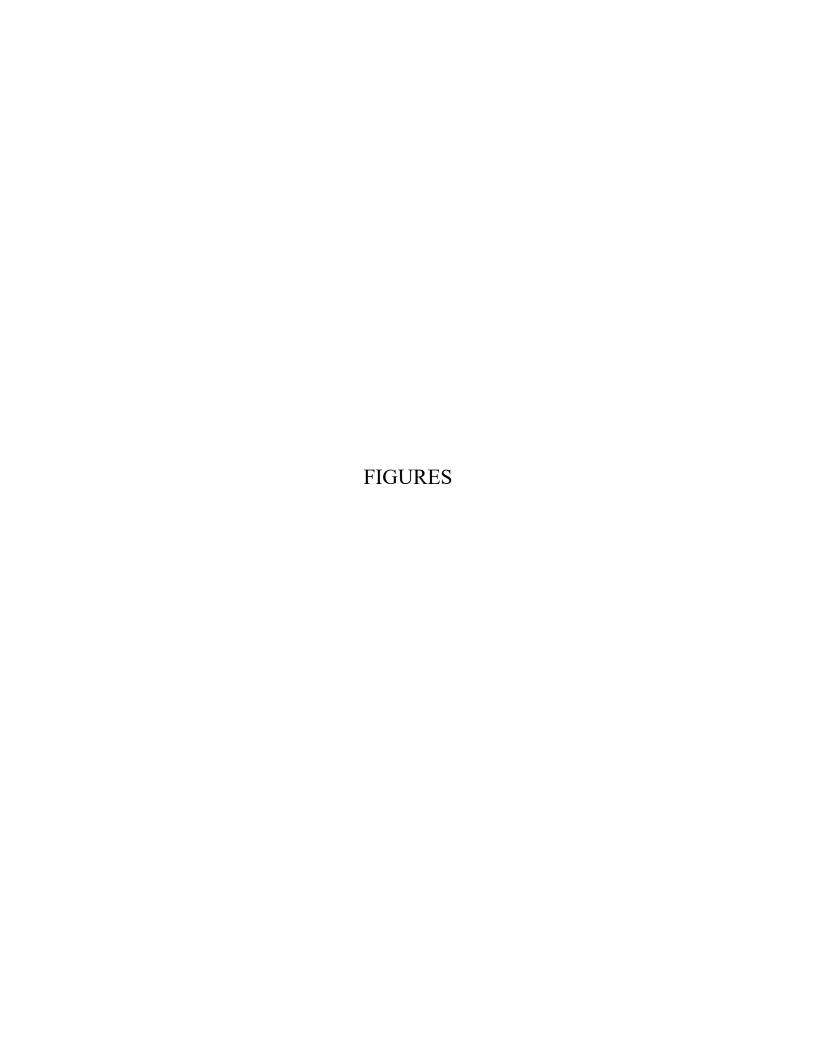
- the IC/EC controls appear to remain generally protective of human health and the environment:
- the O&MM (December 2016) monitoring plan is sufficient to monitor the performance of the remedy;
- the O&MM (December 2016) is adequate to operate and maintain the GWTS; and
- the remedial program is compliant with, and remains capable of, achieving the remedial objectives for the Site.

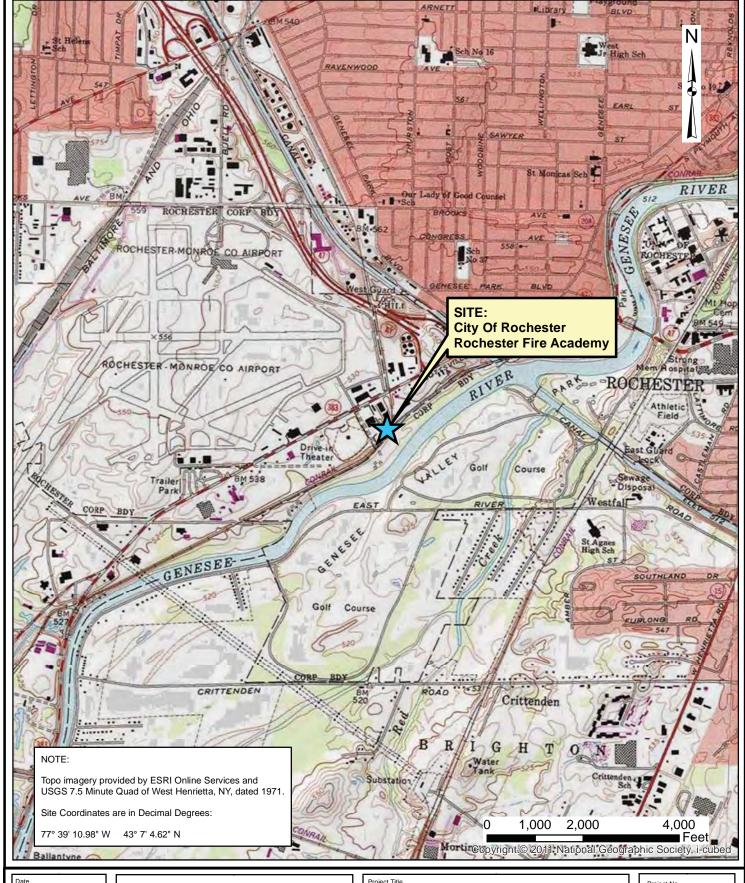
C. Recommendations

Since residual contaminants remain at the Site, it is recommended that applicable aspects of the O&MM continue to be implemented at this Site

While the Site continues to be operated in general compliance with the remedial plan requirements, and while it has been determined that the remedy is currently meeting the remedial objectives for the Site, the following recommendation is provided in accordance with O&MM requirements, and/or to improve Site and remedial operations, monitoring, and efficiencies:

• Surface sealing of minor cracks is needed on an ongoing basis to maintain the integrity of the TGA cap. An existing open area of excavation at the TGA (see IC/EC Certification attachment, Appendix E) is currently protected from rainfall and infiltration, and the plastic sheeting cover needs to be maintained until construction is completed and a permanent impermeable surface cover is restored to the TGA. For the TGA, Monroe County is responsible for "maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site".





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AS NOTED

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Project Title CITY OF ROCHESTER ROCHESTER FIRE ACADEMY ROCHESTER, NEW YORK

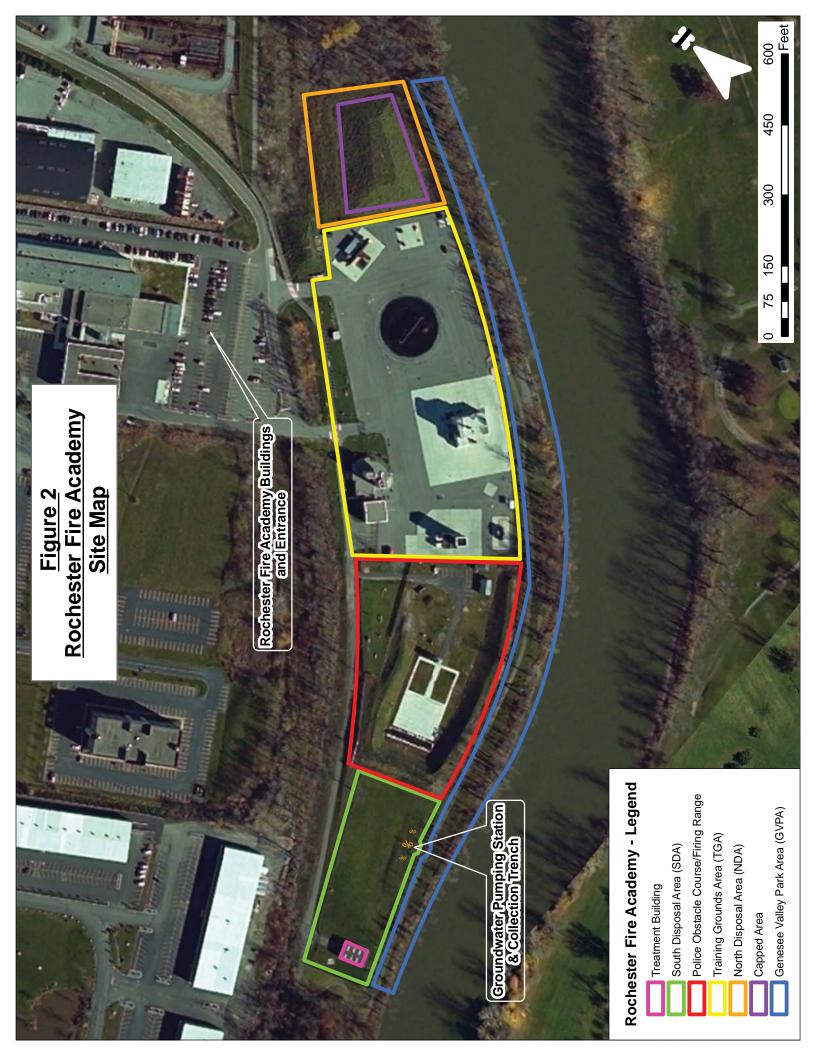
GROUNDWATER TREATMENT SYSTEM RENOVATION

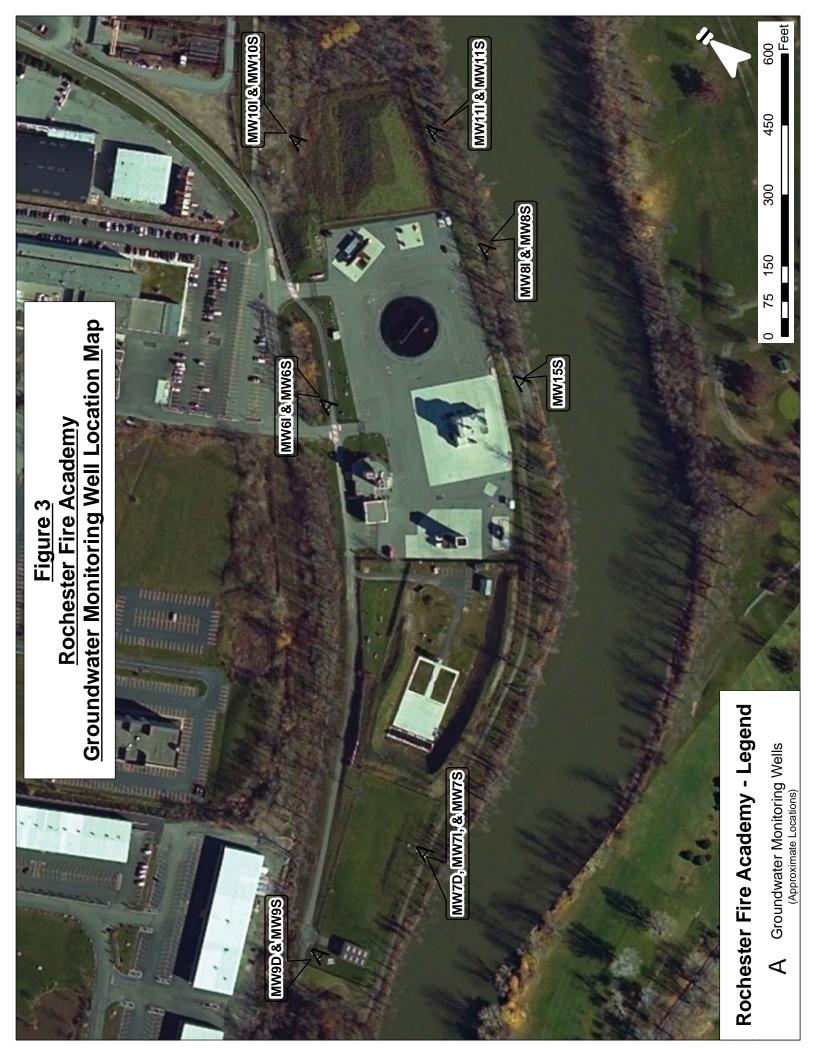
Drawing Title

Project Locus Map

4839C-13

FIGURE 1





APPENDIX A

ANALYTICAL DATA SUMMARY TABLES

(January 2018 through December 2018, With 5-Year Well Summary Data)

Rochester Fire Academy GWTS Influent Quarterly Grab Sampling Monitoring Results

Parameter	2/19/2018	5/15/2018	8/20/2018	11/20/2018
Total Volatiles (EPA 624) (ug/L)				
Vinyl Chloride	1240	1440	1520	1250
Chloroethane	297	505	307	290
1,1 - Dichloroethene	238	277	ND	200
1,1 - Dichloroethane	6840	7960	8190	6820
1,1,1 - Trichloroethane	3520	5100	453	1610
Trichloroethene	ND	ND	ND	ND
Toluene	312	305	ND	201
Acetone	ND	ND	ND	ND
Total Pesticides (EPA 608) (ug/L)				
4,4-DDD	ND	ND	ND	ND
4,4-DDE	0.193	ND	ND	0.236
delta-BHC	ND	ND	ND	ND
cis-Chlordane	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND
Endosulfan I	ND	0.143	0.240	ND
Endrin Aldehyde	ND	ND	ND	ND
Aldrin	ND	ND	0.374	ND
Heptachlor	ND	ND	0.213	ND

Rochester Fire Academy GWTS Effluent VOC Quarterly Grab Sampling Results

Parameter	2/19/2018	5/15/2018	8/20/2018	11/20/2018
Total Volatiles (EPA 624) (ug/L)				
Vinyl Chloride	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
1,1 - Dichloroethene	ND	ND	ND	ND
1,1 - Dichloroethane	4.58	7.19	3.01	9.42
1,2 - Dichloroethane	ND	ND	ND	ND
1,1,1 - Trichloroethane	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND

Rochester Fire Academy GWTS Effluent Grab Sampling Results (Metals and Phosphorus)

Parameter	2/19/2018	5/15/2018	8/20/2018	11/20/2018
Total Metals (mg/L)				
Arsenic	0.00590	ND	ND	0.00523
Cadmium	ND	ND	ND	ND
Chromium	ND	ND	ND	ND
Copper	ND	ND	ND	ND
Lead	ND	ND	ND	ND
Nickel	ND	ND	ND	ND
Selenium	ND	ND	ND	ND
Zinc	ND	ND	ND	ND

Rochester Fire Academy GWTS Effluent Grab Sampling Results (pH, EPA 608 Pesticides + select organics)

Parameter (ug/l)	2/19/2018	5/15/2018	8/20/2018	11/20/2018
pH(SU)	8.28	8.24	8.32	8.21
4,4-DDE	0.121	ND	ND	ND
Aldrin	ND	ND	0.338	ND
Endosulfan I	ND	0.128	0.193	ND
Heptaclor	ND	0.212	0.202	ND
Diethyl phthalate	ND	14.3	10.9	16.1
Acetone	ND	11.4	ND	ND
2-Butanone	13.8	17.7	10.5	13.4
4-methyl-2-pentanone	ND	ND	ND	ND

Notes

- 1 All concentrations except pH are reported in parts per billion (ppb).
- 2 Bis(2-ethylhexyl) phthalate and 4-Methylphenol (p cresol) are no longer required to be analyzed under the sewer discharge permit

Rochester Fire Academy GWTS Air Stripper Emission Estimates

Total Volatiles (601/602) Parameter	O&MM Allowable (lb/hr)	2/19/2018	5/15/2018	8/20/2018	11/20/2018
Vinyl Chloride	0.004	0.0016	0.0021	0.0013	0.0012
Chloroethane	0.002	0.0004	0.0007	0.0003	0.0003
1,1 - Dichloroethene	0.002	0.0003	0.0004	0.0000	0.0002
1,1 - Dichloroethane	0.02	0.0088	0.0114	0.0069	0.0064
1,1,1 - Trichloroethane	0.158	0.0000	0.0000	0.0000	0.0000
Trichloroethene	0.019	0.0004	0.0004	0.0000	0.0002
Toluene	0.018	0.0000	0.0000	0.0000	0.0000
Acetone	0.032	0.0000	0.0000	0.0011	0.0000

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-6I 5/19/2014	MW-6I 11/13/2014	MW-6I 5/27/2015	MW-6I 11/3/2015	MW-6I 5/13/2016	MW-6I 11/18/2016	MW-6I 5/26/2017	MW-61 11/16/2017	MW-6I 5/24/2018	MW-6I 12/20/2018
Vinyl Chloride	2	4.5	4.24	4.5	3.2	4.47	4.57	8.60	8.04	6.75	4.57
Chloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Trichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
MTBE	10	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Benzene	1	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.0)	ND(0.7)	ND(1.0)	ND	ND	ND	ND
Ethylbenzene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Toluene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Chloroform	7	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-7S 5/19/2014	MW-7S 11/13/2014	MW-7S 5/27/2015	MW-7S 11/3/2015	MW-7S 5/13/2016	MW-7S 11/18/2016	MW-7S 5/26/2017	MW-7S 11/16/2017	MW-7S 5/24/2018	MW-7S 12/20/2018
Vinyl Chloride	2	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	2.28	ND
Chloroethane	5	ND(10.0)	ND(10.0)	19.9	ND(5.0)	ND(5.0)	32.4	ND	ND	ND	5.8
1,1 - Dichloroethene	5	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	86.6	229	129	238	156	421	54.6	280	42.7	206
1,2 - Dichloroethane	0.6	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	2.65	ND
1,1,1 - Trichloroethane	5	170	146	139	161	29.6	351	132	555	133	279
Trichloroethene	5	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	5.47	11.5	11.5	13.2	6.92
MTBE	10	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Benzene	1	ND(3.5)	ND(3.5)	ND(1.75)	ND(2.50)	ND(1.75)	ND(2.50)	ND	ND	ND	ND
Ethylbenzene	5	ND(10.0)	4.73	ND(5.0)	ND(5.0)	6.85	77	ND	ND	ND	ND
Toluene	5	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	5.26	ND	ND	ND	ND
Methylene Chloride	5	ND(25.0)	ND(25.0)	ND(12.5)	ND(12.5)	ND(12.5)	ND(12.5)	ND	ND	ND	ND
Chloroform	7	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(10.0)	ND(10.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Table 1 Value 2 (CO1 (CO2) (11)	Groundwater Standard	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	or Guidance Value*	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	2	96.8	238	182	180	57.7	93.7	114	112	160	96.2
Chloroethane	5	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND(20.0)	35.8	39.5	37.3	14.4	21	17.7	24.1	36.7	15.2
1,1 - Dichloroethane	5	348	856	684	662	291	293	278	319	442	191
1,2 - Dichloroethane	0.6	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	236	454	528	555	214	289	272	326	333	129
Trichloroethene	5	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	13.7	ND	ND
MTBE	10	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Benzene	1	ND(20.0)	ND(20.0)	ND(3.50)	ND(5.0)	ND(3.50)	ND(5.0)	ND	ND	ND	ND
Ethylbenzene	5	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Toluene	5	ND(20.0)	ND(20.0)	10.6	11.6	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(20.0)	ND(20.0)	ND(25.0)	ND(25.0)	ND(25.0)	ND(25.0)	ND	ND	ND	ND
Chloroform	7	ND(20.0)	ND(20.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(20.0)	ND(20.0)	ND(10.0)	11	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,4-Dioxane (8260)	N/A	NT	NT	NT	NT	NT	NT	NT	1.5	NT	NT

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-8I 5/19/2014	MW-8I 11/13/2014	MW-8I 5/27/2015	MW-8I 11/3/2015	MW-8I 5/13/2016	MW-8I 11/18/2016	MW-8I 5/26/2017	MW-8I 11/16/2017	MW-8I 5/24/2018	MW-8I 12/20/2018
Vinyl Chloride	2	180	234	165	228	252	307	416	173	7.18	581
Chloroethane	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	13.0
1,1 - Dichloroethene	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Trichloroethene	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
MTBE	10	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Benzene	1	ND(1.75)	ND(1.4)	ND(1.75)	ND(2.50)	ND(1.75)	ND(2.50)	ND	ND	ND	ND
Ethylbenzene	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Toluene	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(12.5)	ND(10.0)	ND(12.5)	ND(12.5)	ND(12.5)	ND(12.5)	ND	ND	ND	ND
Chloroform	7	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(5.0)	ND(4.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-9D 5/19/2014	MW-9D 11/13/2014	MW-9D 5/27/2015	MW-9D 11/3/2015	MW-9D 5/13/2016	MW-9D 11/18/2016	MW-9D 5/26/2017	MW-9D 11/16/2017	MW-9D 5/24/2018	MW-9D 12/20/2018
Vinyl Chloride	2	38	21.7	ND(2.0)	15.1	19.6	19.8	61.9	20.4	ND	41.7
Chloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND(2.0)	6.98	ND(2.0)	5.4	ND(2.0)	ND(2.0)	ND	2.07	ND	ND
1,2 - Dichloroethane	0.6	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Trichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
MTBE	10	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Benzene	1	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.0)	ND(0.7)	ND(1.0)	ND	ND	ND	ND
Ethylbenzene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Toluene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Chloroform	7	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

	Groundwater Standard	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101
Total Volatiles (601/602) (ug/L)	or Guidance Value*	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	2	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Chloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Trichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
MTBE	10	3.36	3.54	4.04	3.38	4.48	3.33	3.48	2.82	ND	5.97
Benzene	1	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.0)	ND(0.7)	ND(1.0)	ND	ND	ND	ND
Ethylbenzene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Toluene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Chloroform	7	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

Total Volatiles (601/602) (ug/L)	Groundwater Standard or Guidance Value*	MW-11I 5/19/2014	MW-11I 11/13/2014	MW-11I 5/27/2015	MW-11I 11/3/2015	MW-11I 5/13/2016	MW-11I 11/18/2016	MW-11I 5/26/2017	MW-11I 11/16/2017	MW-11I 5/24/2018	MW-11I 12/20/2018
Vinyl Chloride	2	ND(2.0)	346	476	435	344	317	476	259	262	294
Chloroethane	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	11.2	18.8	ND	ND	ND	ND
Tetrachloroethene	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Trichloroethene	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
MTBE	10	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Benzene	1	ND(0.7)	ND(1.75)	ND(3.50)	ND(5.0)	ND(3.50)	ND(5.0)	ND	ND	ND	ND
Ethylbenzene	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Toluene	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(5.0)	ND(5.0)	ND(25.0)	ND(25.0)	ND(25.0)	ND(25.0)	ND	ND	ND	ND
Chloroform	7	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(2.0)	ND(5.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

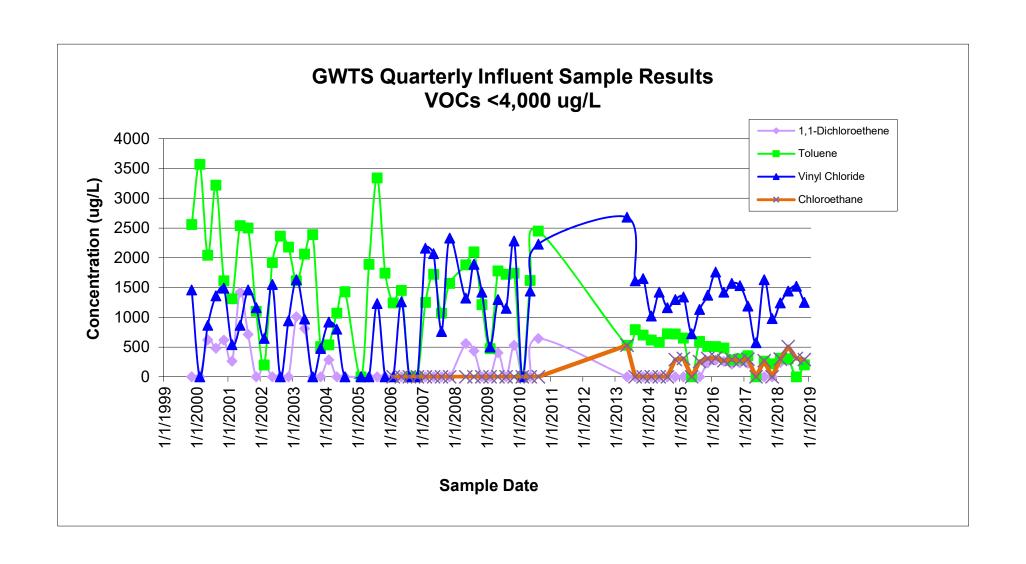
	Groundwater Standard	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	or Guidance Value*	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	2	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Chloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1 - Dichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,2 - Dichloroethane	0.6	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Tetrachloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
1,1,1 - Trichloroethane	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Trichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
MTBE	10	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Benzene	1	ND(0.7)	ND(0.7)	ND(0.7)	ND(1.0)	ND(0.7)	ND(1.0)	ND	ND	ND	ND
Ethylbenzene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Toluene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
Methylene Chloride	5	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND	ND	ND	ND
Chloroform	7	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND
trans 1,2-Dichloroethene	5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND	ND	ND	ND

^{*}Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

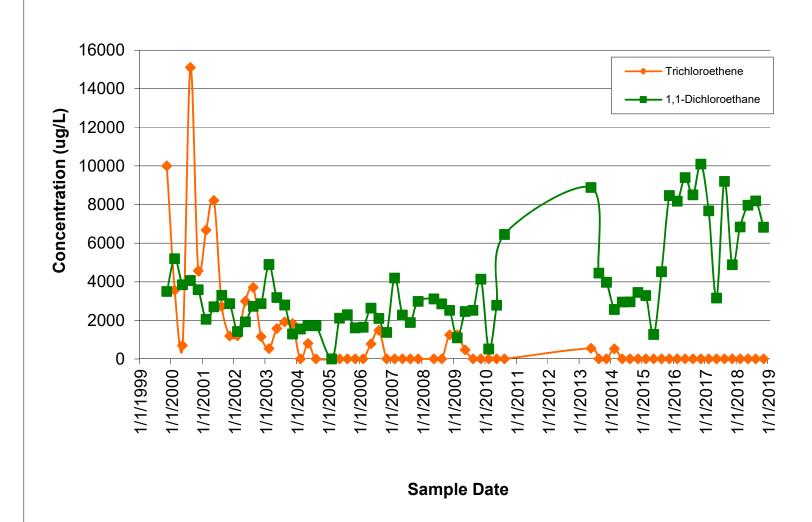
APPENDIX B

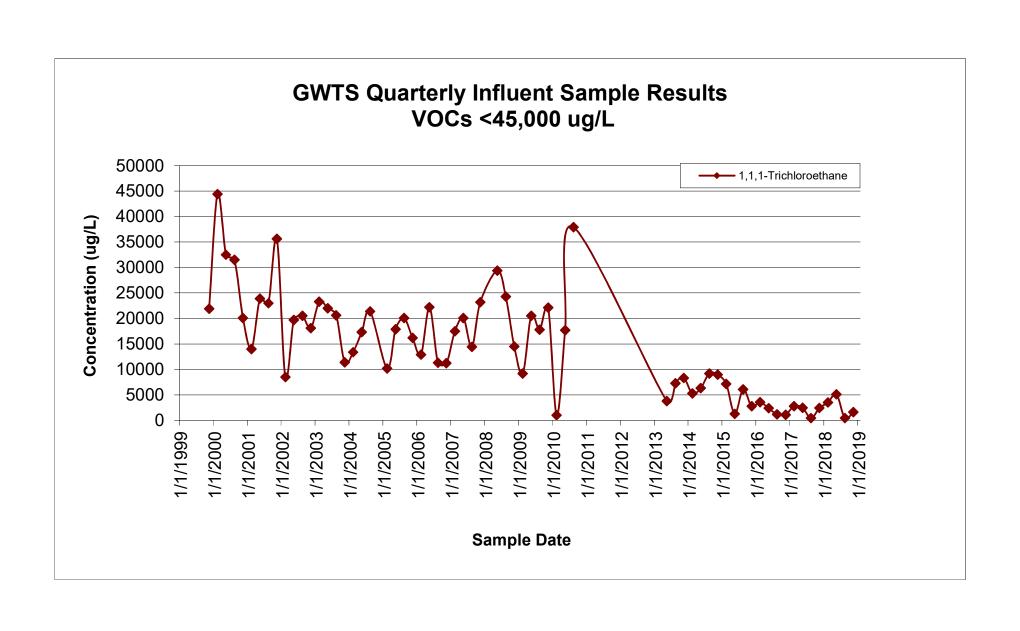
ANALYTICAL DATA CHARTS AND GRAPHS

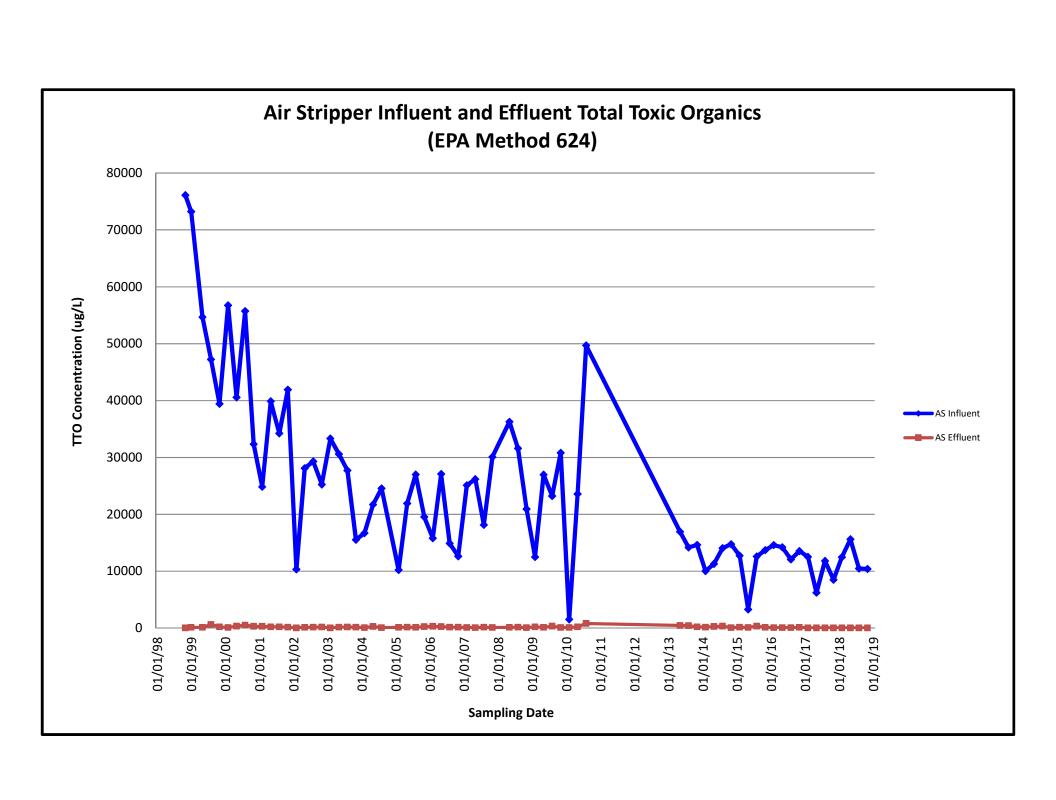
(Parameters of Interest, 1998 through 2018)



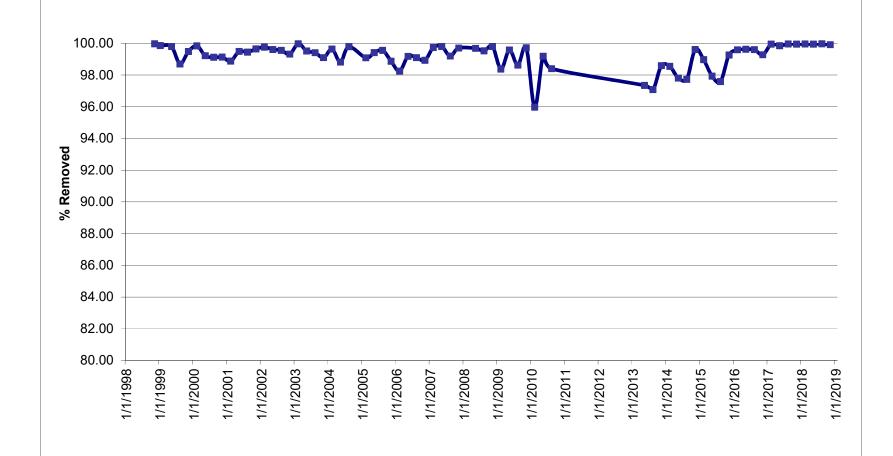




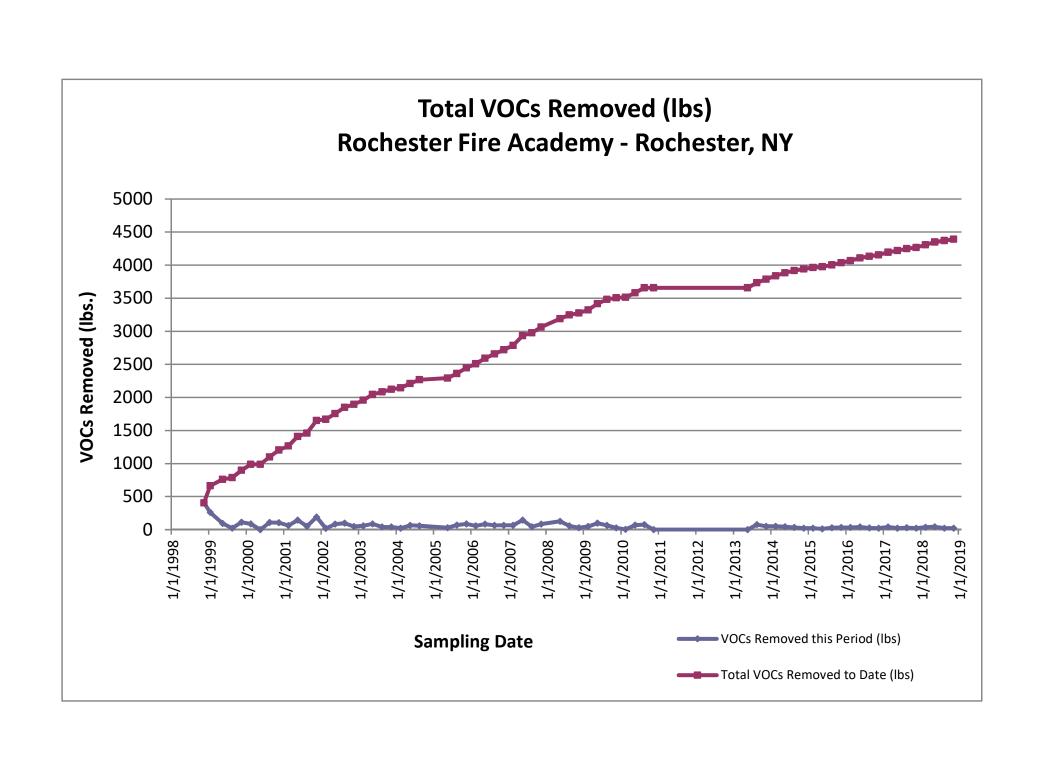


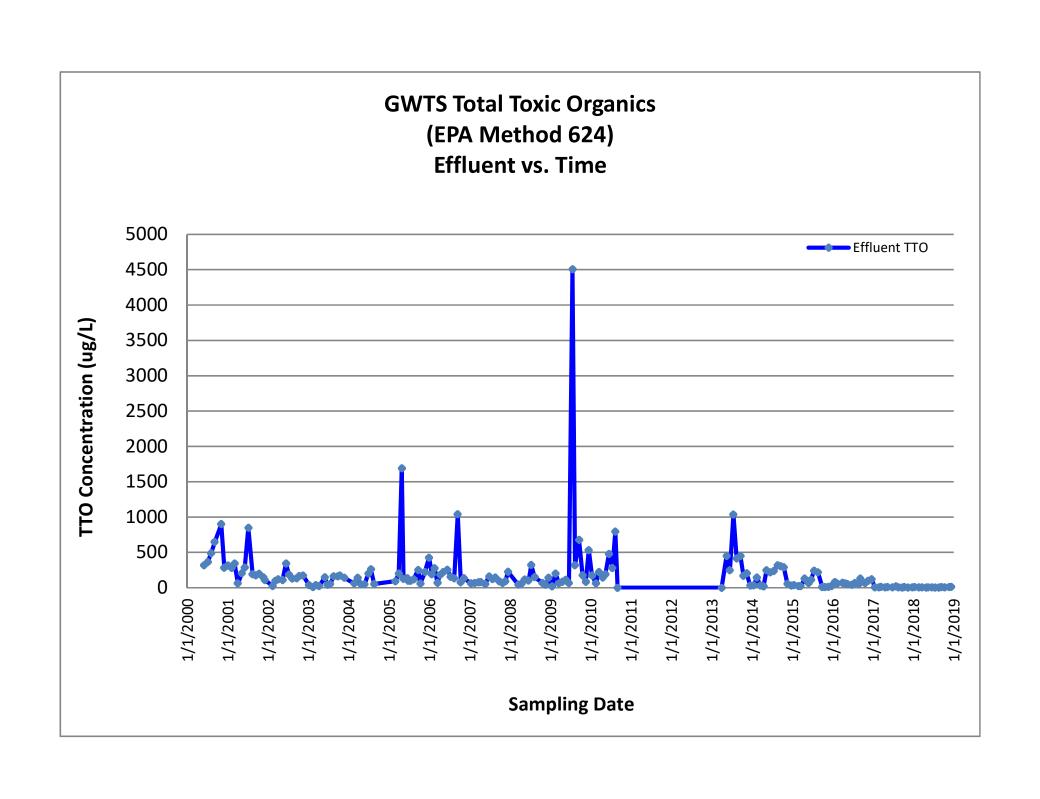






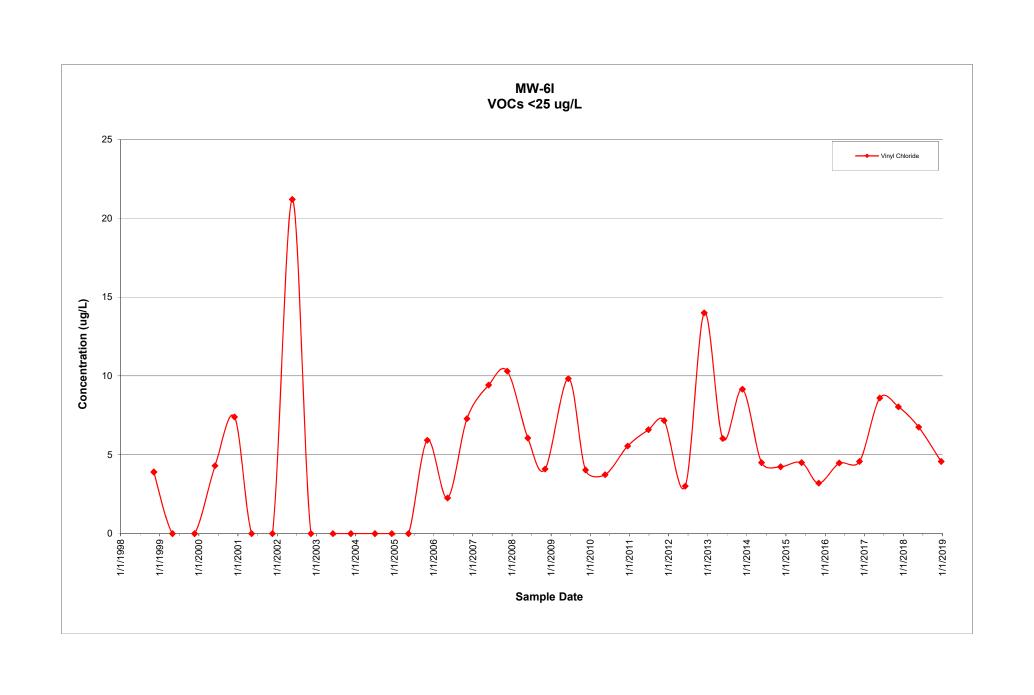
Sample Date





Rochester Fire Academy GWTS Air Stripper Emission Estimates

Total Volatiles (601/602) Parameter	O&MM Allowable (lb/hr)	2/19/2018	5/15/2018	8/20/2018	11/20/2018
Vinyl Chloride	0.004	0.0016	0.0021	0.0013	0.0012
Chloroethane	0.002	0.0004	0.0007	0.0003	0.0003
1,1 - Dichloroethene	0.002	0.0003	0.0004	0.0000	0.0002
1,1 - Dichloroethane	0.02	0.0088	0.0114	0.0069	0.0064
1,1,1 - Trichloroethane	0.158	0.0000	0.0000	0.0000	0.0000
Trichloroethene	0.019	0.0004	0.0004	0.0000	0.0002
Toluene	0.018	0.0000	0.0000	0.0000	0.0000
Acetone	0.032	0.0000	0.0000	0.0011	0.0000

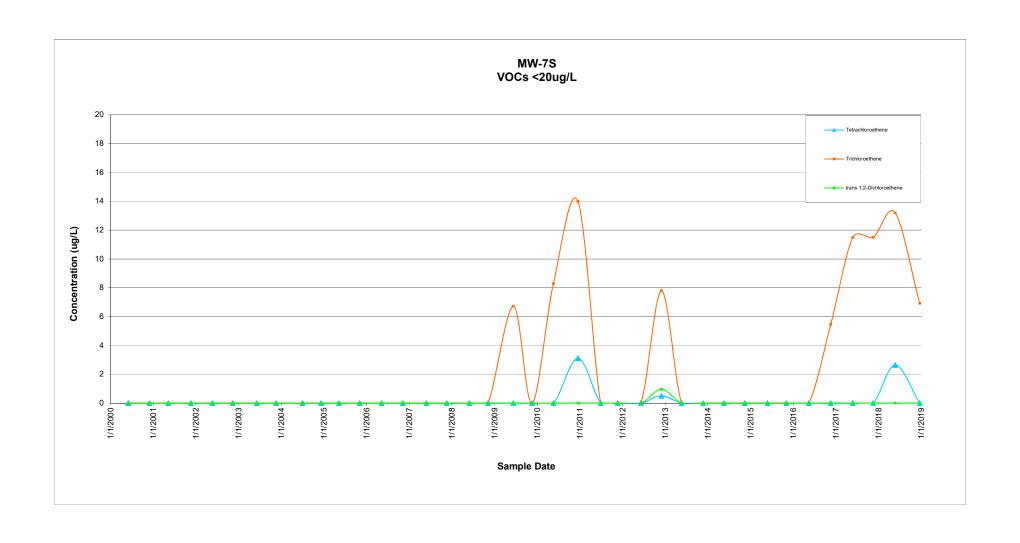


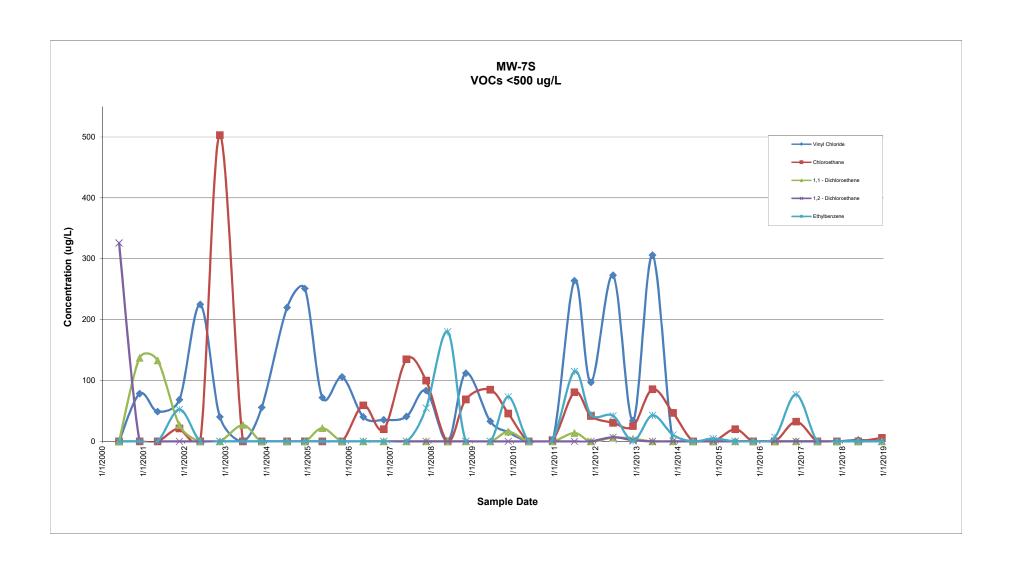
	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003
Vinyl Chloride	3.90	0.00	0.00	4.30	7.40	0.00	0.00	21.20	0.00	0.00	0.00

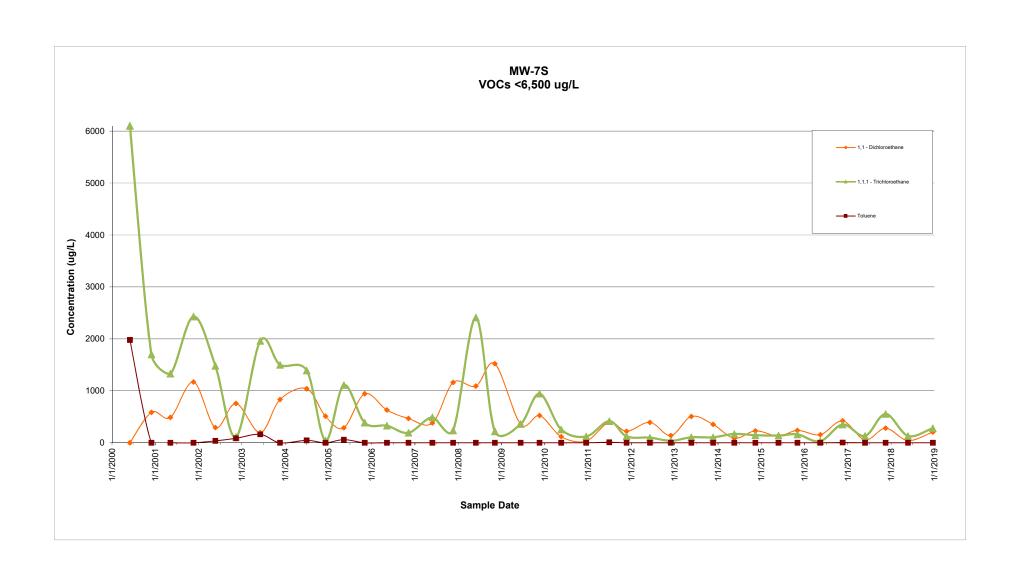
	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	7/2/2004	12/7/2004	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009
Vinyl Chloride	0.00	0.00	0.00	5.92	2.26	7.29	9.42	10.30	6.06	4.09	9.83	4.03

	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	5/20/2010	12/16/2010	6/29/2011	11/22/2011	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015
Vinyl Chloride	3.73	5.55	6.59	7.17	3.01	14.00	6.03	9.16	4.5	4.24	4.5	3.2

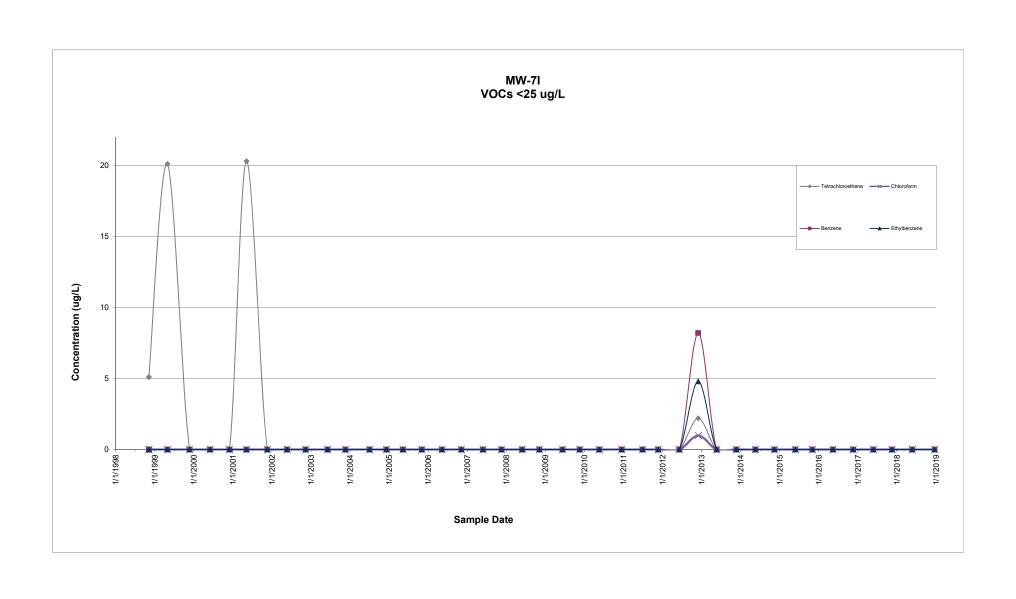
	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I	MW-6I
Total VOC's (601/602) (ug/L)	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	4.47	4.57	8.60	8.04	6.75	4.57

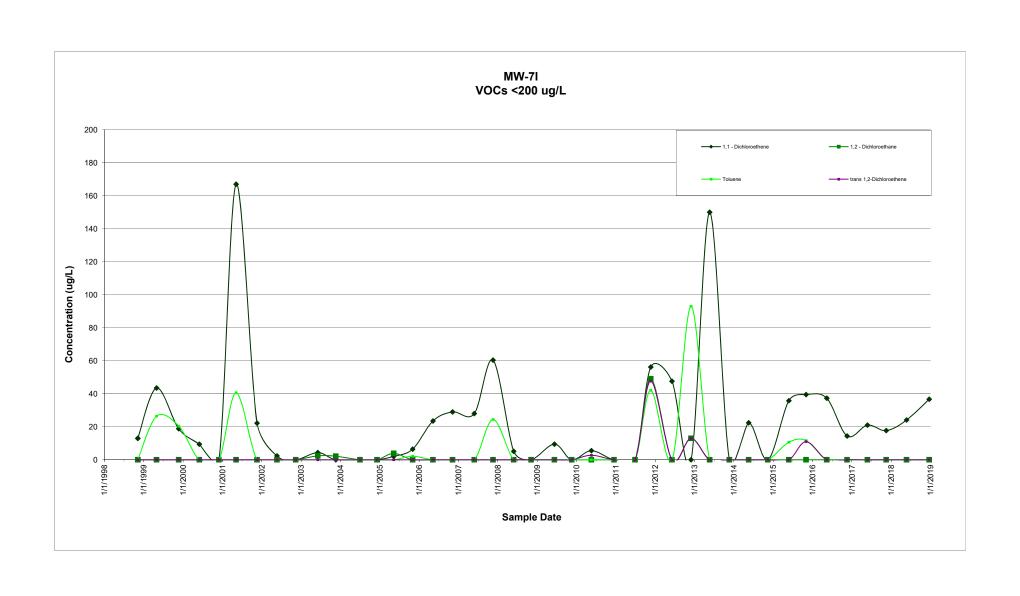


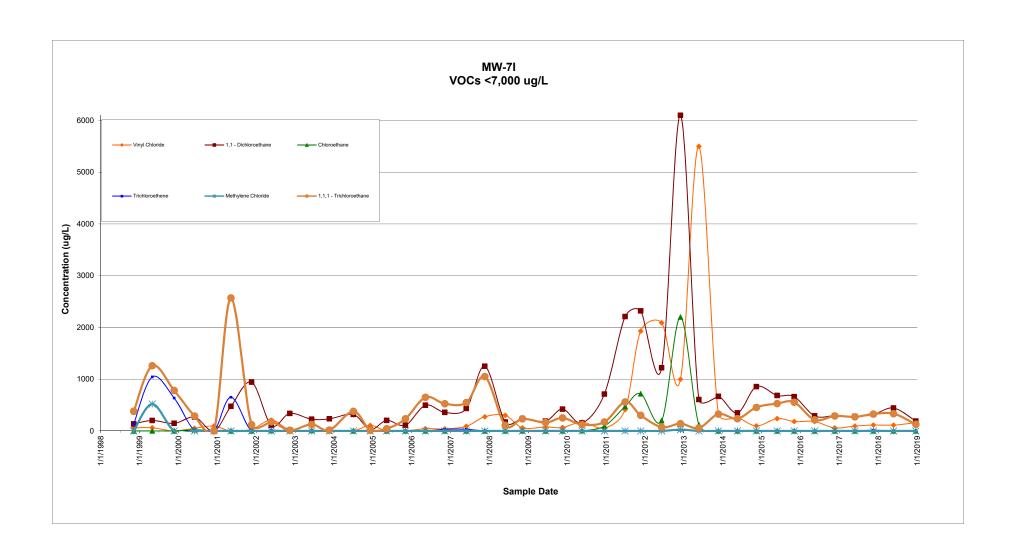




												T		7
T-4-1 V-1-4:1 ((01/(02) (/I))	MW-7S	MW-7S 5/1/1999	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S 11/19/2001	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	4
Total Volatiles (601/602) (ug/L) Tetrachloroethene	11/8/1998 NS	5/1/1999 NS	11/23/1999 NS	6/1/2000 0.0	11/30/2000 0.0	5/9/2001 0.0	0.0	5/23/2002 0.0	11/13/2002 0.0	6/6/2003 0.0	11/20/2003 0.0	7/2/2004 0.0	12/7/2004 0.0	4
Trichloroethene	NS NS	NS NS	NS NS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
trans 1,2-Dichloroethene	NS	NS	NS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
tians 1,2 Biomorocaterio	110	110	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	1
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004	1
1,1 - Dichloroethane	NS	NS	NS	0.0	587.0	489.0	1170.0	293.0	757.0	195.0	833.0	1040.0	511.0	
Toluene	NS	NS	NS	1980.0	0.0	0.0	0.0	36.3	86.6	162.0	0.0	45.7	0.0	
1,1,1 - Trichloroethane	NS	NS	NS	6100.0	1700.0	1330.0	2430.0	1480.0	112.0	1960.0	1500.0	1390.0	42.9	<u> </u>
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	1
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004	1
Vinyl Chloride	NS	NS	NS	0.0	78.4	48.8	68.4	225.0	40.3	0.0	55.7	220.0	251.0	1
Chloroethane	NS	NS	NS	0.0	0.0	0.0	21.4	0.0	503.0	0.0	0.0	0.0	0.0	1
1,1 - Dichloroethene	NS	NS	NS	0.0	137.0	133.0	26.8	0.0	0.0	26.9	0.0	0.0	0.0	1
1,2 - Dichloroethane	NS	NS	NS	326.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ethylbenzene	NS	NS	NS	0.0	0.0	0.0	52.4	0.0	0.0	0.0	0.0	0.0	0.0	
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009	5/20/2010	12/16/2010	6/29/2011	11/22/2011
Tetrachloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0
Trichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	8.3	14.0	0.0	0.0
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1001.50	1 200 50	1 200 50	1 200 50	1 200 50	1 100 50	1 200 50	1 2227 50	1 2227 50	1 200 50	1000 50	1 200 50	1 200 50	1 100 50
T (17 1 (2) ((01/(02) (// //)	MW-7S 5/11/2005	MW-7S 11/3/2005	MW-7S 5/10/2006	MW-7S 11/8/2006	MW-7S 5/29/2007	MW-7S 11/19/2007	MW-7S 5/29/2008	MW-7S 11/6/2008	MW-7S 6/11/2009	MW-7S 11/18/2009	MW-7S 5/20/2010	MW-7S 12/16/2010	MW-7S 6/29/2011	MW-7S 11/22/2011
Total Volatiles (601/602) (ug/L) 1,1 - Dichloroethane	288.0	943.0	631.0	467.0	380.0	11/19/2007	1090.0	1520.0	356.0	524.0	117.0	34.8	396.0	222.0
Toluene	60.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0
1,1,1 - Trichloroethane	1110.0	388.0	328.0	193.0	491.0	238.0	2410.0	220.0	360.0	945.0	256.0	121.0	416.0	124.0
	· L		·							l.				1
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009	5/20/2010	12/16/2010	6/29/2011	11/22/2011
Vinyl Chloride	72.0	106.0	40.3	35.3	40.8	83.4	0.0	112.0	33.0	14.8	0.0	0.0	264.0	97.0
Chloroethane	0.0	0.0	59.2	19.9	135.0	100.0	0.0	68.8	84.8	45.8	0.0	2.0	80.7	41.9
1,1 - Dichloroethene 1,2 - Dichloroethane	21.7 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8 0.0	0.0	0.0	13.7 0.0	0.0
Ethylbenzene	0.0	0.0	0.0	0.0	0.0	54.8	180.0	0.0	0.0	73.3	0.0	3.4	115.0	44.1
Extry to enzenc	0.0	0.0	0.0	0.0	0.0	34.0	100.0	0.0	0.0	75.5	0.0	3.4	113.0	44.1
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Tetrachloroethene Trichloroethene	0.0	0.5 7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 5.47	0.0 11.5	0.0 11.5	2.65 13.2	6.92
trans 1,2-Dichloroethene	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92
tians 1,2 Bieniorectiene	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
1,1 - Dichloroethane	393.0	140.0	507.0	353	86.6	229	129	238	156	421	54.6	280	42.7	206
Toluene	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	5.26	0/0	0/0	0/0	0/0
1,1,1 - Trichloroethane	98.8	39.0	106.0	106	170	146	139	161	29.6	351	132	555	133	279
		1	1	1	1	1	1			1			1	1
	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	273.0	34.0	306.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0
Chloroethane	30.6	25.0	85.6	46.7	0.0	0.0	19.9	0.0	0.0	32.4	0.0	0.0	0.0	5.82
1,1 - Dichloroethene	6.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethene 1,2 - Dichloroethane	6.2	4.3 1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
/														





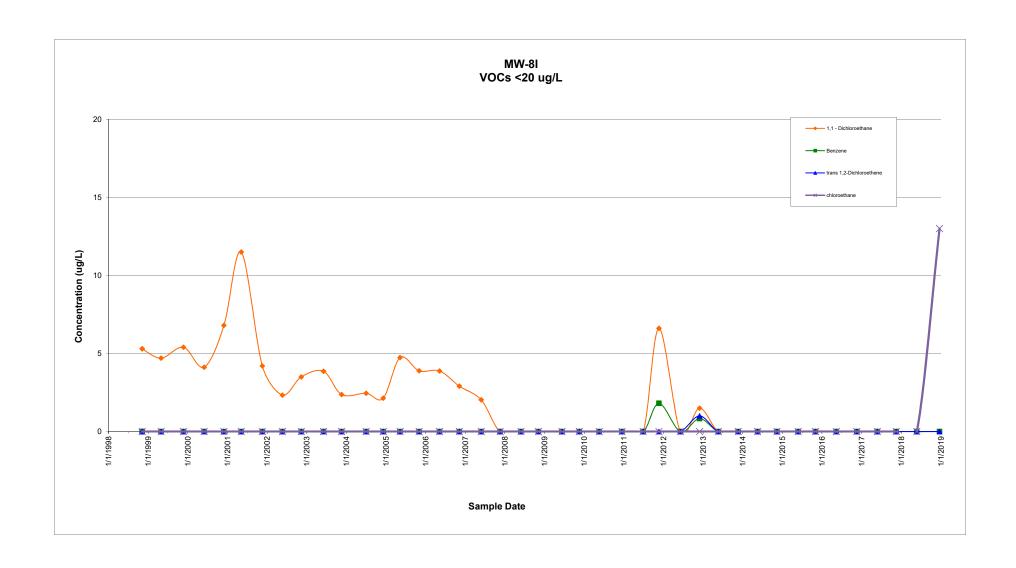


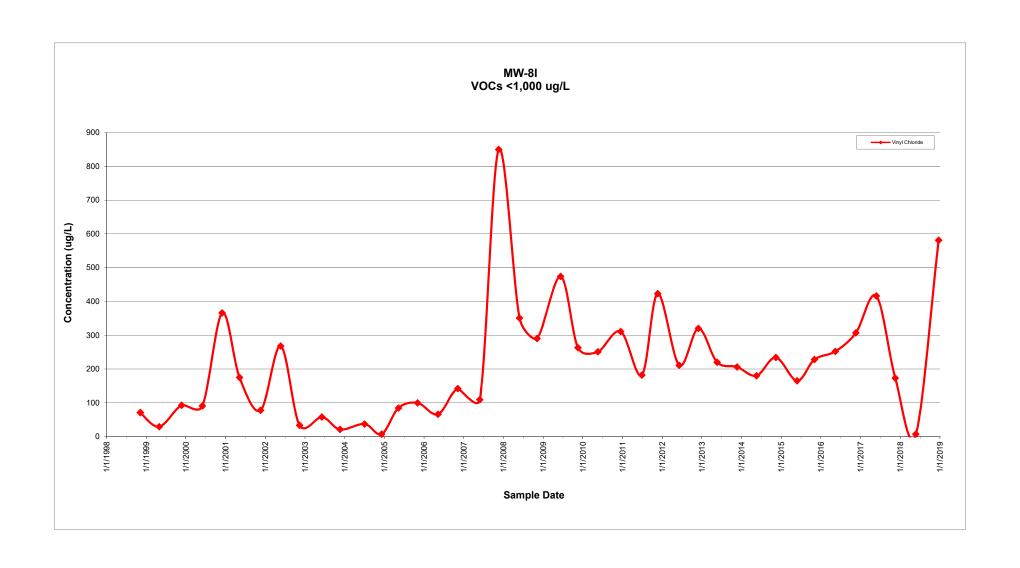
	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-71	MW-71	MW-71	MW-71	MW-71	
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004	
Tetrachloroethene	5.1	20.1	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chloroform	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ethylbenzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0]
														-
	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-71	MW-71	MW-71	MW-71	MW-71	
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004	
Vinyl Chloride	60.5	0.0	51.5	92.4	0.0	31.7	210	16.7	4.1	0.0	2.7	106	0.0	
1,1 - Dichloroethane	135	201	146	266	0	475	943	110	337	227	233	317	28	
Chloroethane	0.0	0.0	0.0	21.5	0.0	0.0	0.0	5.1	0.0	7.8	0.0	0.0	0.0	
Trichloroethene	136	1044.5	635	9.4	0.0	652.0	0.0	13.0	0.0	3.8	0.0	0.0	0.0	
Methylene Chloride	0.0	520.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1,1,1 - Trichloroethane	380	1260.5	781	288	0.0	2570	121	176	13.1	126	17	378	14.6	
														-
	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-71	MW-71	MW-71	MW-71	MW-71	
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004	
1,1 - Dichloroethene	13.0	43.5	18.8	9.41	0.0	167.0	22.2	2.33	0	4.34	0.0	0.0	0.0	
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	2.37	2.15	0.0	0.0	
Toluene	0.0	26.4	20.4	0.0	0.0	40.6	0.0	0.0	0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U	0.0	0.0	0.0	0.0	1
trans 1,2-Dichloroethene														I MW-71
,	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71	MW-71
Total Volatiles (601/602) (ug/L)	MW-71 5/11/2005	MW-71 11/3/2005	MW-71 5/10/2006	MW-71 11/8/2006	MW-71 5/29/2007	MW-71 11/19/2007	MW-71 5/29/2008	MW-71 11/6/2008	MW-71 6/11/2009	MW-71 11/18/2009	MW-71 5/20/2010	MW-71 12/16/2010	MW-71 6/29/2011	11/22/2011
Total Volatiles (601/602) (ug/L) Tetrachloroethene	MW-71 5/11/2005 0.0	MW-71 11/3/2005 0.0	MW-71 5/10/2006 0.0	MW-71 11/8/2006 0.0	MW-71 5/29/2007 0.0	MW-71 11/19/2007 0.0	MW-71 5/29/2008 0.0	MW-71 11/6/2008 0.0	MW-71 6/11/2009 0.0	MW-71 11/18/2009 0.0	MW-71 5/20/2010 0.0	MW-71 12/16/2010 0.0	MW-71 6/29/2011 0.0	11/22/2011 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform	MW-71 5/11/2005 0.0 0.0	MW-71 11/3/2005 0.0 0.0	MW-71 5/10/2006 0.0 0.0	MW-71 11/8/2006 0.0 0.0	MW-71 5/29/2007 0.0 0.0	MW-71 11/19/2007 0.0 0.0	MW-71 5/29/2008 0.0 0.0	MW-71 11/6/2008 0.0 0.0	MW-71 6/11/2009 0.0 0.0	MW-71 11/18/2009 0.0 0.0	MW-71 5/20/2010 0.0 0.0	MW-71 12/16/2010 0.0 0.0	MW-71 6/29/2011 0.0 0.0	11/22/2011 0.0 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene	MW-71 5/11/2005 0.0 0.0 0.0	MW-71 11/3/2005 0.0 0.0 0.0	MW-71 5/10/2006 0.0 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0	MW-71 5/29/2007 0.0 0.0 0.0	MW-71 11/19/2007 0.0 0.0 0.0	MW-71 5/29/2008 0.0 0.0 0.0	MW-71 11/6/2008 0.0 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0	MW-71 11/18/2009 0.0 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0	MW-71 12/16/2010 0.0 0.0 0.0	MW-71 6/29/2011 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform	MW-71 5/11/2005 0.0 0.0	MW-71 11/3/2005 0.0 0.0	MW-71 5/10/2006 0.0 0.0	MW-71 11/8/2006 0.0 0.0	MW-71 5/29/2007 0.0 0.0	MW-71 11/19/2007 0.0 0.0	MW-71 5/29/2008 0.0 0.0	MW-71 11/6/2008 0.0 0.0	MW-71 6/11/2009 0.0 0.0	MW-71 11/18/2009 0.0 0.0	MW-71 5/20/2010 0.0 0.0	MW-71 12/16/2010 0.0 0.0	MW-71 6/29/2011 0.0 0.0	11/22/2011 0.0 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene	MW-71 5/11/2005 0.0 0.0 0.0 0.0	MW-71 11/3/2005 0.0 0.0 0.0	MW-71 5/10/2006 0.0 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0	MW-71 5/29/2007 0.0 0.0 0.0 0.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0	MW-71 5/29/2008 0.0 0.0 0.0	MW-71 11/6/2008 0.0 0.0 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0	MW-71 11/18/2009 0.0 0.0 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0	MW-71 12/16/2010 0.0 0.0 0.0 0.0	MW-71 6/29/2011 0.0 0.0 0.0	11/22/2011 0.0 0.0 0.0 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L)	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 MW-71 11/3/2005	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 MW-71 11/18/2009	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 MW-71 11/3/2005 43.5	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 10 MW-71 11/19/2007 301	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 10 11/18/2009 170	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010 412	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 5/11/2005 0.0 0.0 0.0 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 11/3/2005 43.5 111	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 11/19/2007 301 1250	MW-71 5/29/2008 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 11/18/2009 170 421	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153	MW-71 12/16/2010 0.0 0.0 0.0 0.0 12/16/2010 MW-71 12/16/2010 412 712	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 0.0 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0	MW-71 5/10/2006 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359 0.0	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0	MW-71 11/6/2008 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 MW-71 11/18/2009 170 421 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23	MW-71 12/16/2010 0.0 0.0 0.0 0.0 12/16/2010 MW-71 12/16/2010 412 712 93.5	MW-71 6/29/2011 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320 717
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 203 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0 0.0	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359 0.0 29.8	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 170 11/18/2009 170 421 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 12/16/2010 412 712 93.5 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320 717 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 203 0.0 0.0 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 MW-71 11/3/2005 43.5 111 0.0 0.0	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359 0.0	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0 0.0	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 MW-71 11/18/2009 170 421 0.0 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010 412 712 712 93.5 0.0 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320 717 0.0 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 203 0.0	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0 0.0	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359 0.0 29.8	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 170 11/18/2009 170 421 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 12/16/2010 412 712 93.5 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320 717 0.0
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 203 0.0 0.0 0.0 42.8	MW-71 11/3/2005 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0 0.0 234	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 11/8/2006 89.2 359 0.0 29.8 0.0 525	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0 548	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 11/19/2007 301 1250 0.0 0.0 0.0 1050	MW-71 5/29/2008 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0 233	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0	MW-71 11/18/2009 0.0 0.0 0.0 0.0 11/18/2009 170 421 0.0 0.0 0.0 251	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0	MW-71 12/16/2010 0.0 0.0 0.0 0.0 12/16/2010 412 712 93.5 0.0 0.0 173	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0 559	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320 717 0.0 0.0 302
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride 1,1,1 - Trichloroethane	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 0.0 0.0 42.8	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 MW-71 11/3/2005 43.5 111 0.0 0.0 234	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0 650	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359 0.0 29.8 0.0 525	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0 548	MW-71 11/19/2007 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0 0.0 MW-71 MW-71	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0 108	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0 0.0 333	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0 162	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 MW-71 11/18/2009 170 421 0.0 0.0 0.0 251	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0 122	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010 412 93.5 0.0 0.0 173	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0 559	11/22/2011 0.0 0.0 0.0 0.0 11/22/2011 2090 2320 717 0.0 0.0 302
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride 1,1,1 - Trichloroethane Total Volatiles (601/602) (ug/L)	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 0.0 0.0 0.0 42.8 MW-71 5/11/2005	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 11/3/2005 43.5 111 0.0 0.0 0.0 43.4 MW-71 11/3/2005	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0 0.0 650 MW-71 5/10/2006	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 11/8/2006 89.2 359 0.0 29.8 0.0 525 MW-71 11/8/2006	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0 548 MW-71 5/29/2007	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0 0.0 1050 MW-71 11/19/2007	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0 108 MW-71 5/29/2008	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0 0.0 333 MW-71 11/6/2008	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0 162 MW-71 6/11/2009	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 170 421 0.0 0.0 0.0 0.0 0.0 0.0 170 421 11/18/2009	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0 122 MW-71 5/20/2010	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 12/16/2010 412 712 93.5 0.0 0.0 173 MW-71 12/16/2010	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0 559 MW-71 6/29/2011	11/22/2011 0.0 0.0 0.0 0.0 0.0 MW-71 11/22/2011 2090 2320 717 0.0 0.0 302 MW-71 11/22/2011
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride 1,1,1 - Trichloroethane Total Volatiles (601/602) (ug/L) 1,1 - Dichloroethene	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 42.8 MW-71 5/11/2005 2.09	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0 0.0 234 MW-71 11/3/2005 6.45	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0 0.0 MW-71 5/10/2006 23.5	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 11/8/2006 89.2 359 0.0 29.8 0.0 525 MW-71 11/8/2006 29.0	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0 548 MW-71 5/29/2007 28.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0 1050 MW-71 11/19/2007 60.4	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0 108 MW-71 5/29/2008 5.12	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0 0.0 40.0 11/6/2008 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0 162 MW-71 6/11/2009	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 170 421 0.0 0.0 0.0 0.0 170 421 11/18/2009 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0 122 MW-71 5/20/2010 5.50	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010 412 712 712 0.0 0.0 173 MW-71 12/16/2010 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0 559 MW-71 6/29/2011 56.2	11/22/2011 0.0 0.0 0.0 0.0 0.0 11/22/2011 2090 2320 0.0 0.0 0.0 302 MW-71 11/22/2011
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride 1,1,1 - Trichloroethane Total Volatiles (601/602) (ug/L) 1,1 - Dichloroethene 1,2 - Dichloroethane	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 0.0 0.0 42.8 MW-71 5/11/2005 2.09 3.86	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0 0.0 234 MW-71 11/3/2005 6.45 0.0	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0 0.0 650 MW-71 5/10/2006 23.5 0.0	MW-71 11/8/2006 0.0 0.0 0.0 0.0 11/8/2006 89.2 359 0.0 29.8 0.0 525 MW-71 11/8/2006 29.0 0.0	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0 548 MW-71 5/29/2007 28.0 0.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0 10/0 11/19/2007 301 1250 0.0 0.0 1050 MW-71 11/19/2007 60.4 0.0	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0 108 MW-71 5/29/2008 5.12 0.0	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0 233 MW-71 11/6/2008 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0 162 MW-71 6/11/2009 9.46 0.0	MW-71 11/18/2009 0.0 0.0 0.0 0.0 1/18/2009 170 421 0.0 0.0 0.0 251 MW-71 11/18/2009 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0 122 MW-71 5/20/2010 5.50 0.0	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010 412 712 93.5 0.0 173 MW-71 12/16/2010 0.0 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0 559 MW-71 6/29/2011 56.2 0.0	11/22/2011 0.0 0.0 0.0 0.0 0.0 11/22/2011 2090 2320 717 0.0 0.0 302 MW-71 11/22/2011 47.6 49.1
Total Volatiles (601/602) (ug/L) Tetrachloroethene Chloroform Benzene Ethylbenzene Total Volatiles (601/602) (ug/L) Vinyl Chloride 1,1 - Dichloroethane Chloroethane Trichloroethene Methylene Chloride 1,1,1 - Trichloroethane Total Volatiles (601/602) (ug/L) 1,1 - Dichloroethene	MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 0.0 MW-71 5/11/2005 0.0 0.0 0.0 0.0 0.0 42.8 MW-71 5/11/2005 2.09	MW-71 11/3/2005 0.0 0.0 0.0 0.0 0.0 11/3/2005 43.5 111 0.0 0.0 234 MW-71 11/3/2005 6.45	MW-71 5/10/2006 0.0 0.0 0.0 0.0 0.0 MW-71 5/10/2006 39.5 496 0.0 0.0 0.0 MW-71 5/10/2006 23.5	MW-71 11/8/2006 0.0 0.0 0.0 0.0 0.0 11/8/2006 89.2 359 0.0 29.8 0.0 525 MW-71 11/8/2006 29.0	MW-71 5/29/2007 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2007 273 433 0.0 32.7 0.0 548 MW-71 5/29/2007 28.0	MW-71 11/19/2007 0.0 0.0 0.0 0.0 0.0 MW-71 11/19/2007 301 1250 0.0 0.0 1050 MW-71 11/19/2007 60.4	MW-71 5/29/2008 0.0 0.0 0.0 0.0 0.0 MW-71 5/29/2008 58.6 172 0.0 2.25 0.0 108 MW-71 5/29/2008 5.12	MW-71 11/6/2008 0.0 0.0 0.0 0.0 0.0 MW-71 11/6/2008 76.9 239 0.0 0.0 0.0 40.0 11/6/2008 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MW-71 6/11/2009 0.0 0.0 0.0 0.0 0.0 MW-71 6/11/2009 66.2 189 0.0 2.70 0.0 162 MW-71 6/11/2009	MW-71 11/18/2009 0.0 0.0 0.0 0.0 0.0 170 421 0.0 0.0 0.0 0.0 170 421 11/18/2009 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MW-71 5/20/2010 0.0 0.0 0.0 0.0 0.0 MW-71 5/20/2010 56.7 153 3.23 3.51 0.0 122 MW-71 5/20/2010 5.50	MW-71 12/16/2010 0.0 0.0 0.0 0.0 0.0 MW-71 12/16/2010 412 712 712 0.0 0.0 173 MW-71 12/16/2010 0.0	MW-71 6/29/2011 0.0 0.0 0.0 0.0 0.0 MW-71 6/29/2011 1930 2210 473 0.0 0.0 559 MW-71 6/29/2011 56.2	11/22/2011 0.0 0.0 0.0 0.0 0.0 11/22/2011 2090 2320 0.0 0.0 0.0 302 MW-71 11/22/2011

	MW-71	MW-71	MW-71	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Tetrachloroethene	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chloroform	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethylbenzene	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-71	MW-71	MW-71	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	998	5500	328	259	96.8	238	182	180	57.7	93.7	114	112	160	96.2
1,1 - Dichloroethane	1220	6100	607	668	348	856	684	662	291	293	278	319	442	191
Chloroethane	199	2200	117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trichloroethene	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0
Methylene Chloride	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	73.5	140	56.5	325	236	454	528	555	214	289	272	326	333	129

	MW-71	MW-71	MW-71	MW-71	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
1,1 - Dichloroethene	0.0	150	0.0	22.4	0.0	35.8	39.5	37.3	14.4	21	17.7	24.1	36.7	15.2
1,2 - Dichloroethane	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Toluene	0.0	93.0	0.0	0.0	0.0	0.0	10.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0
trans 1,2-Dichloroethene	0.0	13.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0





	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004
1,1 - Dichloroethane	5.30	4.70	5.40	4.12	6.80	11.50	4.20	2.33	3.50	3.86	2.37	2.45	2.14
Benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans 1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

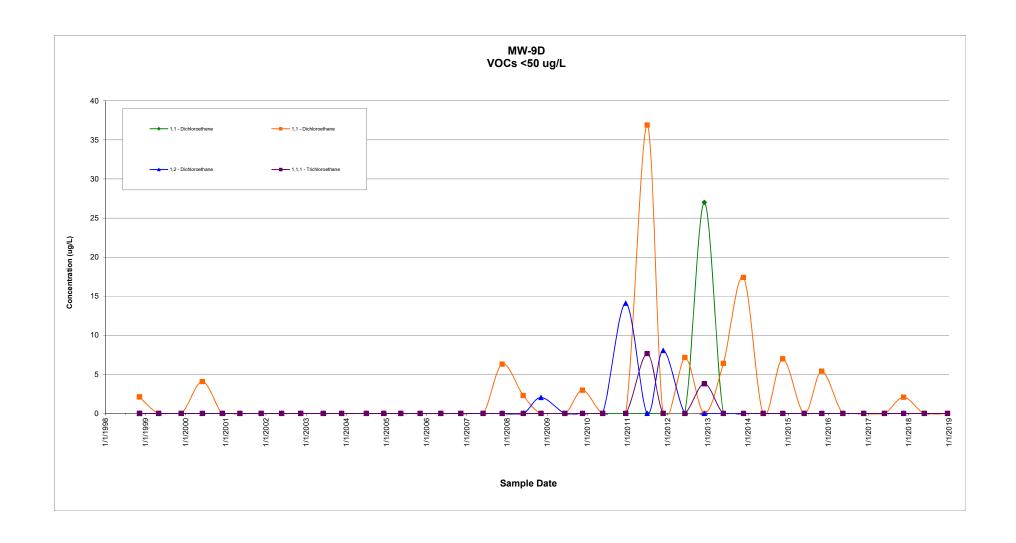
	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004
Vinyl Chloride	70.80	29.00	92.50	90.40	366.00	175.00	77.70	268.00	33.20	57.90	21.00	37.10	7.02

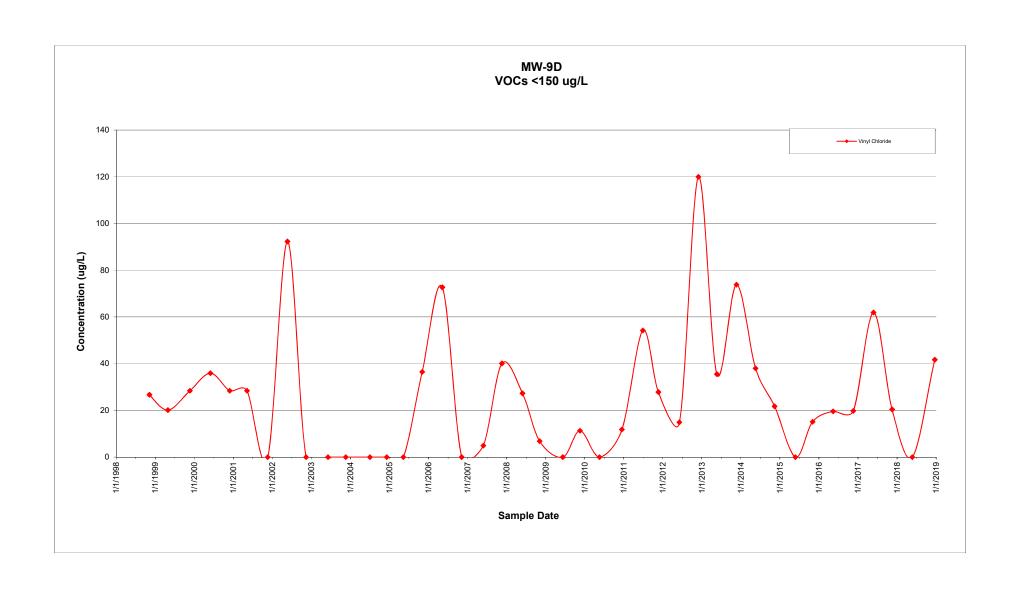
	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009	5/20/2010	12/16/2010	6/29/2011	11/22/2011
1,1 - Dichloroethane	4.74	3.89	3.88	2.91	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
Benzene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Chloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
trans 1,2-Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009	5/20/2010	12/16/2010	6/29/2011	11/22/2011
Vinyl Chloride	84.5	99.5	65.9	142	109	850	351	290	474	263	251	311	182	423

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
1,1 - Dichloroethane	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
trans 1,2-Dichloroethene	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I	MW-8I
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	211	320	220	206	180	234	165	228	252	307	416	173	7.18	581





	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethane	2.10	0.0	0.0	4.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

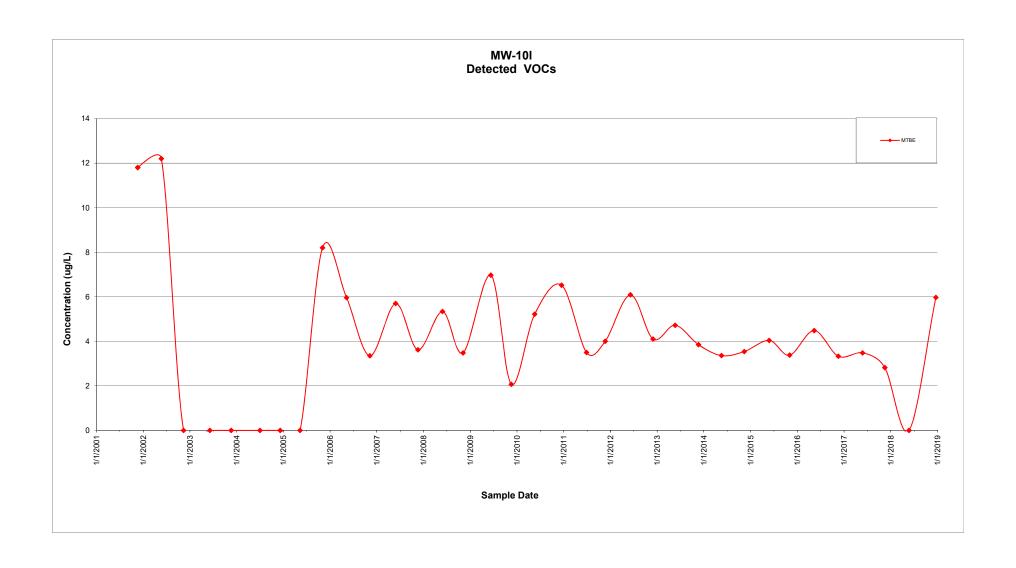
	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003	7/2/2004	12/7/2004
Vinyl Chloride	26.7	20.1	28.4	35.9	28.4	28.4	0.0	92.3	0.0	0.0	0.0	0.0	0.0

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009	5/20/2010	12/16/2010	6/29/2011	11/22/2011
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	6.30	2.29	0.0	0.0	2.96	0.0	0.0	36.9	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.04	0.0	0.0	0.0	14.1	0.0	8.1
1,1,1 - Trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009	5/20/2010	12/16/2010	6/29/2011	11/22/2011
Vinyl Chloride	0.0	36.5	72.7	0.0	4.92	40.1	27.3	6.83	0.0	11.3	0.0	11.8	54.2	27.8

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
1,1 - Dichloroethene	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1 - Dichloroethane	7.2	0.0	6.4	17.4	0.0	6.98	0.0	5.4	0.0	0.0	0.0	2.07	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,1,1 - Trichloroethane	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
Total Volatiles (601/602) (ug/L)	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	14.9	120	35.5	73.8	38.0	21.7	0.0	15.1	19.6	19.8	61.9	20.4	0.0	41.7

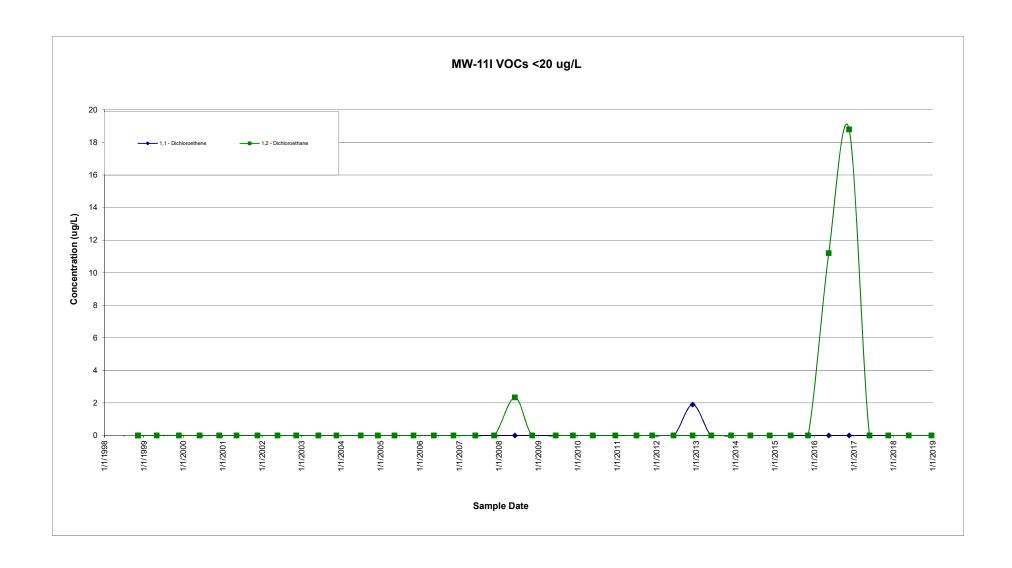


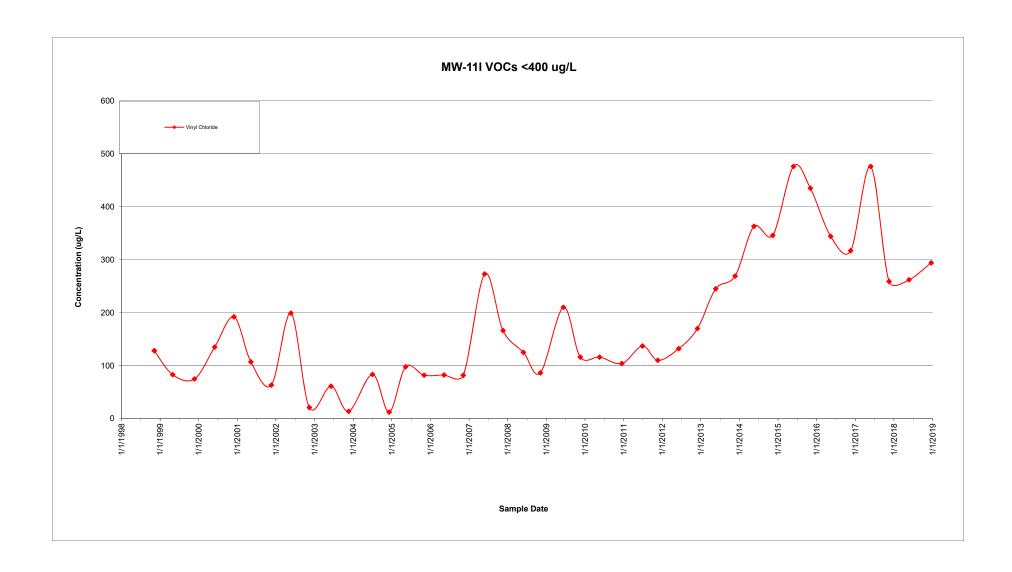
	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003
MTBE	NS	NS	NS	NS	NS	NS	11.80	12.20	0.0	0.0	0.0

	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I
Total Volatiles (601/602) (ug/L)	7/2/2004	12/7/2004	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009
MTBE	0.0	0.0	0.0	8.20	5.96	3.35	5.70	3.62	5.34	3.48	6.97	2.07

	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I	MW-10I
Total Volatiles (601/602) (ug/L)	5/20/2010	12/16/2010	6/29/2011	11/22/2011	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015
MTBE	5.22	6.52	3.50	4.00	6.09	4.10	4.72	3.85	3.36	3.54	4.04	3.38

	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101
Total Volatiles (601/602) (ug/L)	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
MTBE	4.48	3.33	3.48	2.82	0.0	5.97





	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003
Vinyl Chloride	128.1	82.9	74.8	135	192	107	63.3	199	20.9	61.1	13.7

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	7/2/2004	12/7/2004	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.34	0.0	0.0	0.0

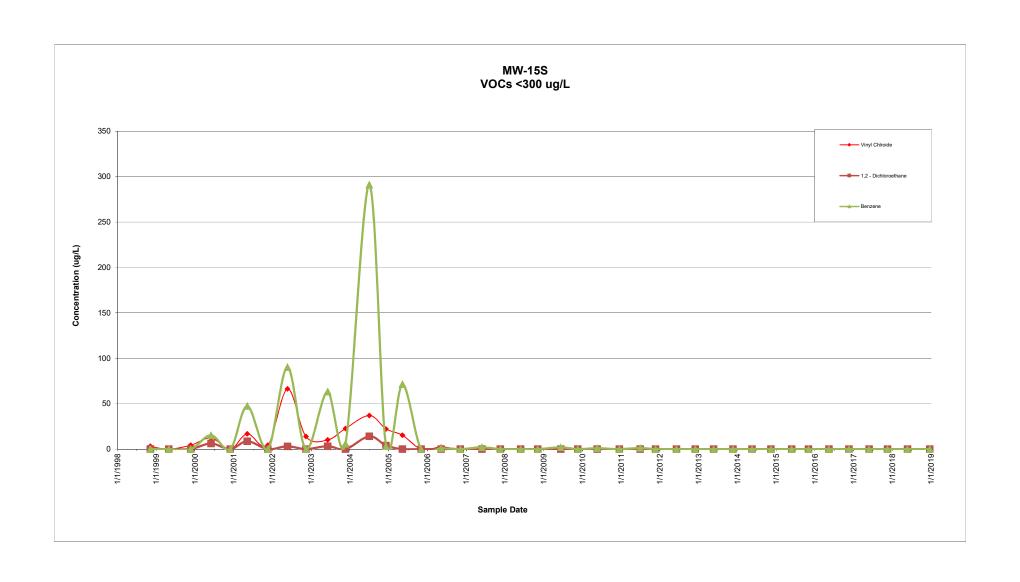
	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	7/2/2004	12/7/2004	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009
Vinyl Chloride	83.4	12.1	97.8	81.9	82.4	81.8	273	166	125	86.4	210	116

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	5/20/2010	12/16/2010	6/29/2011	11/22/2011	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	5/20/2010	12/16/2010	6/29/2011	11/22/2011	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015
Vinyl Chloride	116	104	137	110	132	170	245	269	363	346	476	435

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
1,1 - Dichloroethene	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	11.2	18.8	0.0	0.0	0.0	0.0

	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Total Volatiles (601/602) (ug/L)	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chloride	344	317	476	259	262	294



	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	11/8/1998	5/1/1999	11/23/1999	6/1/2000	11/30/2000	5/9/2001	11/19/2001	5/23/2002	11/13/2002	6/6/2003	11/20/2003
Vinyl Chlroide	3.00	0.0	4.30	12.1	0.0	16.8	4.30	66.3	13.9	10.1	22.6
1,2 - Dichloroethane	0.0	0.0	0.0	6.20	0.0	8.60	0.0	3.10	0.0	3.18	0.0
Benzene	0.0	0.0	0.0	15.2	0.0	47.4	0.0	90.3	0.0	63.4	5.89

	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	7/2/2004	12/7/2004	5/11/2005	11/3/2005	5/10/2006	11/8/2006	5/29/2007	11/19/2007	5/29/2008	11/6/2008	6/11/2009	11/18/2009
Vinyl Chlroide	37.0	22.2	15.3	0.0	2.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	14.0	3.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	291	3.37	71.5	0.0	0.95	0.0	1.98	0.0	0.0	0.0	1.90	0.0

	MW-15S	MW-15S	MW-15S	MW-15S	MW-158	MW-15S	MW-158	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	5/20/2010	12/16/2010	6/29/2011	11/22/2011	6/6/2012	11/30/2012	5/22/2013	11/21/2013	5/19/2014	11/13/2014	5/27/2015	11/3/2015
Vinyl Chlroide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	1.04	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S
Total Volatiles (601/602) (ug/L)	5/13/2016	11/18/2016	5/26/2017	11/16/2017	5/24/2018	12/20/2018
Vinyl Chlroide	0.0	0.0	0.0	0.0	0.0	0.0
1,2 - Dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0
Benzene	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX C

ANALYTICAL DATA LABORATORY REPORTS



Analytical Report For

City of Rochester

For Lab Project ID

180112

Referencing

RFA Monthly Sampling DEQ-98045 PO# 18004885

Prepared

Wednesday, January 24, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Lab Project ID: 180112

Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045 PO# 18004885

Sample Identifier: Effluent

Lab Sample ID:180112-01Date Sampled:1/11/2018Matrix:WaterDate Received:1/11/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.19 @ 21.5 C
 S.U.
 1/11/2018 17:18

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/11/2018 15:47
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/11/2018 15:47
1,1,2-Trichloroethane	< 2.00	ug/L		1/11/2018 15:47
1,1-Dichloroethane	7.98	ug/L		1/11/2018 15:47
1,1-Dichloroethene	< 2.00	ug/L		1/11/2018 15:47
1,2-Dichlorobenzene	< 2.00	ug/L		1/11/2018 15:47
1,2-Dichloroethane	< 2.00	ug/L		1/11/2018 15:47
1,2-Dichloropropane	< 2.00	ug/L		1/11/2018 15:47
1,3-Dichlorobenzene	< 2.00	ug/L		1/11/2018 15:47
1,4-Dichlorobenzene	< 2.00	ug/L		1/11/2018 15:47
2-Butanone	15.7	ug/L		1/11/2018 15:47
2-Chloroethyl vinyl Ether	< 10.0	ug/L		1/11/2018 15:47
4-Methyl-2-pentanone	< 5.00	ug/L		1/11/2018 15:47
Acetone	< 10.0	ug/L		1/11/2018 15:47
Benzene	< 1.00	ug/L		1/11/2018 15:47
Bromodichloromethane	< 2.00	ug/L		1/11/2018 15:47
Bromoform	< 5.00	ug/L		1/11/2018 15:47
Bromomethane	< 2.00	ug/L		1/11/2018 15:47
Carbon Tetrachloride	< 2.00	ug/L		1/11/2018 15:47
Chlorobenzene	< 2.00	ug/L		1/11/2018 15:47
Chloroethane	< 2.00	ug/L		1/11/2018 15:47
Chloroform	< 2.00	ug/L		1/11/2018 15:47
Chloromethane	< 2.00	ug/L		1/11/2018 15:47

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 180112

Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045 PO# 18004885

Sample Identifier:	Effluent						
Lab Sample ID: 180112-01				Dat	e Sampled:	1/11/2018	
Matrix:	Water			Dat	e Received:	1/11/2018	
cis-1,3-Dichloropropene		< 2.00	ug/L			1/11/2018	15:47
Dibromochloromethane	Dibromochloromethane		ug/L			1/11/2018	15:47
Ethylbenzene		< 2.00	ug/L			1/11/2018	15:47
Methylene chloride	Methylene chloride		ug/L			1/11/2018	15:47
Tetrachloroethene	Tetrachloroethene		ug/L			1/11/2018	15:47
Toluene		< 2.00	ug/L			1/11/2018	15:47
trans-1,2-Dichloroethene		< 2.00	ug/L			1/11/2018	15:47
trans-1,3-Dichloroprop	trans-1,3-Dichloropropene		ug/L			1/11/2018	15:47
Trichloroethene		< 2.00	ug/L			1/11/2018	15:47
Vinyl chloride		< 2.00	ug/L			1/11/2018	15:47
<u>Surrogate</u>		Percent Recovery		<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4			105	85.9 - 118		1/11/2018	15:47
4-Bromofluorobenzene			92.8	69.4 - 123		1/11/2018	15:47
Pentafluorobenzene			95.7	81.6 - 114		1/11/2018	15:47
Toluene-D8			99.8	82.7 - 112		1/11/2018	15:47

Method Reference(s): EPA 624

Data File: x48085.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



CHAIN OF CUSTODY

PARADIGM	REPORT TO:	CLIENT: INVOICE TO:	TO:	LAB PROJECT ID
	ADDRESS: 30 Church Street, Room 300B	n 300B ADDRESS: ZIP 14614 CITY: STATE	ZIP:	Quotation #: PO 18004885
(PHONE: 428-6884	PHONE:		
PROJECT REFERENCE	ATTN: Dennis Peck	ATTN:		peckd@cityofrochester.gov
RFA Monthly Sampling DEQ-98045 PO# 18004885	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	WA - Water WG - Groundwater WW - Wastewater	SO - Soil SL - Sludge	SD - Solid WP - Wipe PT - Paint CK - Caulk
	-	REQUESTED	ANALYSIS	-
DATE COLLECTED COLLECTED S B	SAMPLE IDENTIFIER	X-D-PE wmoon TO Dmbgcz wdmz-P-Zon 624 Site Specific pH		REMARKS
1 1/11/2018 /330 X	Effluent	Water 3 X X	624 Site S	624 Site Specific =VRFA Test Name
ω 4 το				
6				
7				
8				
9				
10			1000	1/11/18 1574
Turnaround Time	Report Supplements	7		
Availability contingent upon lab approval; additional fees may apply.	oproval; additional fees may apply.	lennis lock	8/11/1/	
Standard 5 day Batch QC	Basic EDD	Sampled By	Date/Time	Total Cost:
Rush 3 day Category A	NYSDEC EDD	Reinquished By	Date/Time	
Rush 2 day Category B		Received By 1 1 1	Date/Time	P.I.F.
Other X Other please indicate:	Other EDD please indicate:	Received @ Lab By	Date/Time	
			See addit	See additional page for sample conditions

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Chain of Custody Supplement

Client:	180112	Completed by:	Moly Cail
_	Sample Cond Per NELAC/ELA	lition Requirements NP 210/241/242/243/244	
NEL. Condition	AC compliance with the sam Yes	ple condition requirements upon No	receipt N/A
Container Type Comments	4		
— Transferred to method- compliant container			
Headspace (<1 mL) Comments	UOA		<u></u>
Preservation Comments	IVOA:		pA
Chlorine Absent (<0.10 ppm per test strip) Comments	UOA neg.		IPH I
— Holding Time Comments	4	CPH)	
Témperature Comments	10°C	11118 1514	
Sufficient Sample Quantity Comments			
-			-



Analytical Report For

City of Rochester

For Lab Project ID

180600

Referencing

RFA Quarterly Sampling DEQ-98045

Prepared

Monday, March 5, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Effluent

Lab Sample ID:180600-01Date Sampled:2/19/2018Matrix:WastewaterDate Received:2/19/2018

Metals

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
Arsenic	0.00590	mg/L		2/23/2018 09:30
Cadmium	< 0.00250	mg/L		2/22/2018 18:29
Chromium	< 0.00500	mg/L		2/22/2018 18:29
Copper	< 0.0100	mg/L		2/22/2018 18:29
Lead	< 0.00500	mg/L		2/22/2018 18:29
Nickel	< 0.0200	mg/L		2/22/2018 18:29
Selenium	< 0.0100	mg/L		2/22/2018 18:29
Zinc	< 0.0300	mg/L		2/22/2018 18:29

Method Reference(s):EPA 200.7Preparation Date:2/20/2018Data File:180223A

Chlorinated Pesticides

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
4,4-DDD	< 0.100	ug/L		2/20/2018 13:57
4,4-DDE	0.121	ug/L	P	2/20/2018 13:57
4,4-DDT	< 0.100	ug/L		2/20/2018 13:57
Aldrin	< 0.100	ug/L		2/20/2018 13:57
alpha-BHC	< 0.100	ug/L		2/20/2018 13:57
beta-BHC	< 0.100	ug/L		2/20/2018 13:57
cis-Chlordane	< 0.100	ug/L		2/20/2018 13:57
delta-BHC	< 0.100	ug/L		2/20/2018 13:57
Dieldrin	< 0.100	ug/L		2/20/2018 13:57
Endosulfan I	< 0.100	ug/L		2/20/2018 13:57
Endosulfan II	< 0.100	ug/L		2/20/2018 13:57
Endosulfan Sulfate	< 0.100	ug/L		2/20/2018 13:57
Endrin	< 0.100	ug/L		2/20/2018 13:57
Endrin Aldehyde	< 0.100	ug/L		2/20/2018 13:57
gamma-BHC (Lindane)	< 0.100	ug/L		2/20/2018 13:57
Heptachlor	< 0.100	ug/L		2/20/2018 13:57



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier:EffluentLab Sample ID:180600-01Date Sampled:2/19/2018Matrix:WastewaterDate Received:2/19/2018

Heptachlor Epoxide < 0.100 ug/L 2/20/2018 13:57 Methoxychlor < 0.100 ug/L 2/20/2018 13:57 Toxaphene < 1.00 ug/L 2/20/2018 13:57 trans-Chlordane < 0.100 ug/L 2/20/2018 13:57 **Surrogate Percent Recovery** Limits **Outliers Date Analyzed** 15.9 - 138 73.2 Decachlorobiphenyl (1) 2/20/2018 13:57 20 - 112 Tetrachloro-m-xylene (1) 83.6 2/20/2018 13:57

Method Reference(s):EPA 608Preparation Date:2/20/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.28 @ 23.7 C
 S.U.
 2/19/2018 16:49

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
Diethyl phthalate	< 10.0	ug/L			2/20/2018	22:55
Surrogate	Percer	nt Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
2-Fluorobiphenyl		73.0	31.2 - 108		2/20/2018	22:55
Nitrobenzene-d5		71.7	48.3 - 106		2/20/2018	22:55
Terphenyl-d14		63.4	52.2 - 117		2/20/2018	22:55

Method Reference(s):EPA 625Preparation Date:B25323.DData File:2/20/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/20/2018 14:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/20/2018 14:12



Client: City of Rochester

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier:	Effluent					
Lab Sample ID:	180600-01			Date Sampled:	2/19/2018	
Matrix:	Wastewater			Date Received:	2/19/2018	
1,1,2-Trichloroethane		< 2.00	ug/L		2/20/2018	14:12
1,1-Dichloroethane		4.58	ug/L		2/20/2018	14:12
1,1-Dichloroethene		< 2.00	ug/L		2/20/2018	14:12
1,2-Dichlorobenzene		< 2.00	ug/L		2/20/2018	14:12
1,2-Dichloroethane		< 2.00	ug/L		2/20/2018	14:12
1,2-Dichloropropane		< 2.00	ug/L		2/20/2018	14:12
1,3-Dichlorobenzene		< 2.00	ug/L		2/20/2018	14:12
1,4-Dichlorobenzene		< 2.00	ug/L		2/20/2018	14:12
2-Butanone		13.8	ug/L		2/20/2018	14:12
2-Chloroethyl vinyl Ether		< 10.0	ug/L		2/20/2018	14:12
4-Methyl-2-pentanone		< 5.00	ug/L		2/20/2018	14:12
Acetone		< 10.0	ug/L		2/20/2018	14:12
Benzene		< 1.00	ug/L		2/20/2018	14:12
Bromodichloromethane		< 2.00	ug/L		2/20/2018	14:12
Bromoform		< 5.00	ug/L		2/20/2018	14:12
Bromomethane		< 2.00	ug/L		2/20/2018	14:12
Carbon Tetrachloride		< 2.00	ug/L		2/20/2018	14:12
Chlorobenzene		< 2.00	ug/L		2/20/2018	14:12
Chloroethane		< 2.00	ug/L		2/20/2018	14:12
Chloroform		< 2.00	ug/L		2/20/2018	14:12
Chloromethane		< 2.00	ug/L		2/20/2018	14:12
cis-1,3-Dichloropropene		< 2.00	ug/L		2/20/2018	14:12
Dibromochloromethane		< 2.00	ug/L		2/20/2018	14:12
Ethylbenzene		< 2.00	ug/L		2/20/2018	14:12
Methylene chloride		< 5.00	ug/L		2/20/2018	14:12
Tetrachloroethene		< 2.00	ug/L		2/20/2018	14:12
Toluene		< 2.00	ug/L		2/20/2018	14:12
trans-1,2-Dichloroethene	2	< 2.00	ug/L		2/20/2018	14:12
trans-1,3-Dichloroprope	ne	< 2.00	ug/L		2/20/2018	14:12
Trichloroethene		< 2.00	ug/L		2/20/2018	14:12
Vinyl chloride		< 2.00	ug/L		2/20/2018	14:12



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Effluent

Lab Sample ID:180600-01Date Sampled:2/19/2018Matrix:WastewaterDate Received:2/19/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	103	77.2 - 121		2/20/2018	14:12
4-Bromofluorobenzene	100	70 - 123		2/20/2018	14:12
Pentafluorobenzene	102	85.4 - 110		2/20/2018	14:12
Toluene-D8	97.6	83.8 - 112		2/20/2018	14:12

Method Reference(s): EPA 624

Data File: x48791.D



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Influent

Lab Sample ID:180600-02Date Sampled:2/19/2018Matrix:WastewaterDate Received:2/19/2018

Chlorinated Pesticides

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date Analyzed	
4,4-DDD	< 0.100	ug/L			2/20/2018 14:1	10
4,4-DDE	0.193	ug/L		P	2/20/2018 14:1	LO
4,4-DDT	< 0.100	ug/L			2/20/2018 14:1	10
Aldrin	< 0.100	ug/L			2/20/2018 14:1	10
alpha-BHC	< 0.100	ug/L			2/20/2018 14:1	10
beta-BHC	< 0.100	ug/L			2/20/2018 14:1	10
cis-Chlordane	< 0.100	ug/L			2/20/2018 14:1	10
delta-BHC	< 0.100	ug/L			2/20/2018 14:1	10
Dieldrin	< 0.100	ug/L			2/20/2018 14:1	10
Endosulfan I	< 0.100	ug/L			2/20/2018 14:1	10
Endosulfan II	< 0.100	ug/L			2/20/2018 14:1	10
Endosulfan Sulfate	< 0.100	ug/L			2/20/2018 14:1	10
Endrin	< 0.100	ug/L			2/20/2018 14:1	10
Endrin Aldehyde	< 0.100	ug/L			2/20/2018 14:1	10
gamma-BHC (Lindane)	< 0.100	ug/L			2/20/2018 14:1	10
Heptachlor	< 0.100	ug/L			2/20/2018 14:1	10
Heptachlor Epoxide	< 0.100	ug/L			2/20/2018 14:1	10
Methoxychlor	< 0.100	ug/L			2/20/2018 14:1	10
Toxaphene	< 1.00	ug/L			2/20/2018 14:1	10
trans-Chlordane	< 0.100	ug/L			2/20/2018 14:1	10
Surrogate	<u>Perc</u>	ent Recovery	<u>Limits</u>	Outliers	Date Analyzed	
Decachlorobiphenyl (1)		61.8	15.9 - 138		2/20/2018 14:	10
Tetrachloro-m-xylene (1)		65.3	20 - 112		2/20/2018 14:	10

Method Reference(s):EPA 608Preparation Date:2/20/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	3520	ug/L		2/20/2018 13:48



Client: City of Rochester

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier:	Influent					
Lab Sample ID:	180600-02			Date Sampled:	2/19/2018	
Matrix:	Wastewater			Date Received:	2/19/2018	
1,1,2,2-Tetrachloroetha	nne	< 100	ug/L		2/20/2018	13:48
1,1,2-Trichloroethane		< 100	ug/L		2/20/2018	13:48
1,1-Dichloroethane		6840	ug/L		2/20/2018	13:48
1,1-Dichloroethene		238	ug/L		2/20/2018	13:48
1,2-Dichlorobenzene		< 100	ug/L		2/20/2018	13:48
1,2-Dichloroethane		< 100	ug/L		2/20/2018	13:48
1,2-Dichloropropane		< 100	ug/L		2/20/2018	13:48
1,3-Dichlorobenzene		< 100	ug/L		2/20/2018	13:48
1,4-Dichlorobenzene		< 100	ug/L		2/20/2018	13:48
2-Butanone		< 500	ug/L		2/20/2018	13:48
2-Chloroethyl vinyl Eth	er	< 500	ug/L		2/20/2018	13:48
4-Methyl-2-pentanone		< 250	ug/L		2/20/2018	13:48
Acetone		< 500	ug/L		2/20/2018	13:48
Benzene		< 50.0	ug/L		2/20/2018	13:48
Bromodichloromethan	е	< 100	ug/L		2/20/2018	13:48
Bromoform		< 250	ug/L		2/20/2018	13:48
Bromomethane		< 100	ug/L		2/20/2018	13:48
Carbon Tetrachloride		< 100	ug/L		2/20/2018	13:48
Chlorobenzene		< 100	ug/L		2/20/2018	13:48
Chloroethane		297	ug/L		2/20/2018	13:48
Chloroform		< 100	ug/L		2/20/2018	13:48
Chloromethane		< 100	ug/L		2/20/2018	13:48
cis-1,3-Dichloropropen	e	< 100	ug/L		2/20/2018	13:48
Dibromochloromethan	e	< 100	ug/L		2/20/2018	13:48
Ethylbenzene		< 100	ug/L		2/20/2018	13:48
Methylene chloride		< 250	ug/L		2/20/2018	13:48
Tetrachloroethene		< 100	ug/L		2/20/2018	13:48
Toluene		312	ug/L		2/20/2018	13:48
trans-1,2-Dichloroethe	ne	< 100	ug/L		2/20/2018	13:48
trans-1,3-Dichloroprop	ene	< 100	ug/L		2/20/2018	13:48
Trichloroethene		< 100	ug/L		2/20/2018	13:48
Vinyl chloride		1240	ug/L		2/20/2018	13:48



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Influent

Lab Sample ID:180600-02Date Sampled:2/19/2018Matrix:WastewaterDate Received:2/19/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	104	77.2 - 121		2/20/2018	13:48
4-Bromofluorobenzene	97.8	70 - 123		2/20/2018	13:48
Pentafluorobenzene	104	85.4 - 110		2/20/2018	13:48
Toluene-D8	101	83.8 - 112		2/20/2018	13:48

Method Reference(s): EPA 624

Data File: x48790.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

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Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

Standard 5 day Rush 3 day Rush 2 day Rush 1 day Other plesse indicate:	Turnaround Time Availability contin	10	ο ω	7	တ	O)	4	ω	2 2/19/2018 1	1 2/19/2018 1	DATE COLLECTED COL		RFA Quarterly Sampling DEQ-98045	PROJECT REFERENCE				PARADIGM	
	me ntingent up		=						11:55	11:30	TIME		npling DE	EFEREN	1) GM	
Batch QC Category A Category B Other please indicate:	on lab ap		-						×	×	00≥000-Fm 0 x < m		Q-980-	H					
Basic EDD NYSDEC EDD Other EDD please indicate:	rnaround Time Report Supplements Availability contingent upon lab approval; additional fees may apply.								Influent	(Effluent	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTN: Dennis Peck	PHONE: 428-6884	спу: Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	REPORT TO:
Rélinquished By Rélinquished By Received @ Lab By Received @ Lab By 10° \ 3/19/18 15:08	Demis Peck								Water 3 X X	×	×-B->= wmboo TO Bmmscz wBmz->-200 624 Site Specific 625 Site Specific 608 Pesticides Metals* pH	REQUESTED A	WA - Water WG - Groundwater WW - Wastewater	ATTN:	PHONE:		ADDRESS:	CLIENT:	INVOI
Date/Time 2/19/18 1455 Date/Time 2/19/18 1455 Date/Time 2/19/18 15:70 Date/Time	2/19/18		As, Cd, Ci	Metals list:			Diethyl phthalate	SVOA List:	625 Site Specific =	624 Site S		ANALYSIS	tter SO - Soil r SL - Sludge			STATE: ZIP:		Cr. I.C.	INVOICE TO:
1453 8 1453 P.I.F. 15:10 See additional page for sample conditions			Cr, Cu, Pb, Ni, Se, Zn	A	man or	The state of the s	thalate	Ħ	pecific = SMISC	624 Site Specific =VRFA Test Name	REMARKS		SD - Solid WP - Wipe PT - Paint CK - Caulk	peckd@cityofrochester.gov	Email:	Quotation #: PO 18004885	180600	LAB PROJECT ID	
									02	01	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air			85		=	



Chain of Custody Supplement

Client: Lab Project ID:	City of Rochester	Completed by:	2/19/18
Lab i roject ib.	Sample Condition I Per NELAC/ELAP 210/24	Requirements	
[] Condition	NELAC compliance with the sample cond Yes	dition requirements upo No	on receipt N/A
Container Type Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments	Aov (X)		
Preservation Comments	VOA Metals		
Chlorine Absent (<0.10 ppm per test strip) Comments	625 SVOA Y 608 Pest 624 VOA: CI-rug.		
Holding Time Comments		DE PH	
Temperature Comments			PH metals
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

181039

Referencing

RFA Monthly Sampling DEQ-98045

*Prepared**

Monday, March 26, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent

Lab Sample ID:181039-01Date Sampled:3/21/2018Matrix:WaterDate Received:3/21/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.16 @ 22.2 C
 S.U.
 3/21/2018 15:00

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analy	yzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/22/2018	15:52
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/22/2018	15:52
1,1,2-Trichloroethane	< 2.00	ug/L		3/22/2018	15:52
1,1-Dichloroethane	6.03	ug/L		3/22/2018	15:52
1,1-Dichloroethene	< 2.00	ug/L		3/22/2018	15:52
1,2-Dichlorobenzene	< 2.00	ug/L		3/22/2018	15:52
1,2-Dichloroethane	< 2.00	ug/L		3/22/2018	15:52
1,2-Dichloropropane	< 2.00	ug/L		3/22/2018	15:52
1,3-Dichlorobenzene	< 2.00	ug/L		3/22/2018	15:52
1,4-Dichlorobenzene	< 2.00	ug/L		3/22/2018	15:52
2-Butanone	17.4	ug/L		3/22/2018	15:52
2-Chloroethyl vinyl Ether	< 10.0	ug/L		3/22/2018	15:52
4-Methyl-2-pentanone	< 5.00	ug/L		3/22/2018	15:52
Acetone	< 10.0	ug/L		3/22/2018	15:52
Benzene	< 1.00	ug/L		3/22/2018	15:52
Bromodichloromethane	< 2.00	ug/L		3/22/2018	15:52
Bromoform	< 5.00	ug/L		3/22/2018	15:52
Bromomethane	< 2.00	ug/L		3/22/2018	15:52
Carbon Tetrachloride	< 2.00	ug/L		3/22/2018	15:52
Chlorobenzene	< 2.00	ug/L		3/22/2018	15:52
Chloroethane	< 2.00	ug/L		3/22/2018	15:52
Chloroform	< 2.00	ug/L		3/22/2018	15:52
Chloromethane	< 2.00	ug/L		3/22/2018	15:52



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent						
Lab Sample ID:	181039-01			Dat	e Sampled:	3/21/2018	
Matrix:	Water			Dat	e Received:	3/21/2018	
cis-1,3-Dichloroproper	ne	< 2.00	ug/L			3/22/2018	15:52
Dibromochloromethan	e	< 2.00	ug/L			3/22/2018	15:52
Ethylbenzene		< 2.00	ug/L			3/22/2018	15:52
Methylene chloride		< 5.00	ug/L			3/22/2018	15:52
Tetrachloroethene		< 2.00	ug/L			3/22/2018	15:52
Toluene		< 2.00	ug/L			3/22/2018	15:52
trans-1,2-Dichloroethe	ene	< 2.00	ug/L			3/22/2018	15:52
trans-1,3-Dichloroprop	oene	< 2.00	ug/L			3/22/2018	15:52
Trichloroethene		< 2.00	ug/L			3/22/2018	15:52
Vinyl chloride		< 2.00	ug/L			3/22/2018	15:52
<u>Surrogate</u>		<u>Per</u>	cent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4			103	77.2 - 121		3/22/2018	15:52
4-Bromofluorobenzene	e		97.2	70 - 123		3/22/2018	15:52
Pentafluorobenzene			104	85.4 - 110		3/22/2018	15:52
Toluene-D8			100	83.8 - 112		3/22/2018	15:52

Method Reference(s): EPA 624

Data File: x49352.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

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LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

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Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

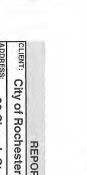
LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.





CHAIN OF CUSTODY

Turnaround Time Availability contin Standard 5 day Rush 3 day Rush 2 day Rush 1 day Other Please Indicate: 10	2 6 7 8 9 6	1 3/21/2018	DATE COLLECTED	-	RFA Monthly Sampling DEQ-98045 PO# 18004885	PROJEC		1		PAR	
y contingent X		1330	TIME		hly Sampling I PO# 18004885	PROJECT REFERENCE	1			PARADIGM	= 1
upon lab al Batch QC Category A Category B Category B Cother please indicate:			m → − ₩ 0 0 ≥ 0 0		DEQ-98	NCE		1	No. of Concession, Name of Street, or other Persons, Name of Street, or ot		
appro A		×	a > ¤ v			Þ	ס	C	Þ	O	
Availability contingent upon lab approval; additional fees may apply. Is day Batch QC Category A Basic EDD NYSDEC EDD Availability Diher Please indicate: Nother EDD Diese indicate: Diese indicate		Effluent	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTN: Dennis Peck	PHONE: 428-6884	CITY: Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	BEBORT TO:
Sampled By Relinquished By Received By Received @ Lab By		8			WA - Water WG - Groundwater			ZIP 14	n 300B		
® Lab		Water	N M D O O		er undwate	D.	2	14614 C	A	Ω	
By		ω	NDMK-PHKO		ή.	ATTN:	PHONE:	спу:	ADDRESS:	CLIENT:	
		×	624 Site Specific pH	REC	WW						
14:30				REQUESTED	- Drinki - Wast						
(4)					DW - Drinking Water WW - Wastewater			ST,		INVOICE 10.	NIVOIC
Date/Time Date/Time Date/Time Date/Time Date/Time				ANALYSIS	er			STATE:		ì i	É TO.
Date/Time Date/Time Date/Time Date/Time Date/Time				SIS	SU-			Z			
		624 Site			SO - Soil SL - Sludge			ZIP:		=	
Total Cost: 1420 1430 14.20 See additional page for sample conditions.		te Specific =VRFA Test Name	REMARKS		SD - Solid WP - Wipe PT - Paint CK - Caulk	peckd@cityofrochester.gov	Email:	Quotation #: PO	181039		
ple cor		Name				ster.gov		PO 18004885	7	LAB PROJECT ID	
ditions.		10	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air	12					



Chain of Custody Supplement

Client:	City of Rochester	Completed by:	Glenn Pezzulo
Lab Project ID:	18 1039	Date:	3/21/18
	Sample Condition I Per NELAC/ELAP 210/24	Requirements 41/242/243/244	
Condition	NELAC compliance with the sample cond Yes	dition requirements upo No	n receipt N/A
Container Type Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments	VOA-		
Preservation Comments	VOA-		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: C/ neg.		
Holding Time Comments		T PH	
Temperature Comments	10 ° C	4	DE PH
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

181702

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Thursday, May 10, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent

 Lab Sample ID:
 181702-01
 Date Sampled:
 4/26/2018

 Matrix:
 Water
 Date Received:
 4/27/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.19 @ 20.2 C
 S.U.
 4/26/2018 15:10

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2018 17:18
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2018 17:18
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2018 17:18
1,1-Dichloroethane	2.10	ug/L		5/9/2018 17:18
1,1-Dichloroethene	< 2.00	ug/L		5/9/2018 17:18
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2018 17:18
1,2-Dichloroethane	< 2.00	ug/L		5/9/2018 17:18
1,2-Dichloropropane	< 2.00	ug/L		5/9/2018 17:18
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2018 17:18
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2018 17:18
2-Butanone	< 10.0	ug/L		5/9/2018 17:18
2-Chloroethyl vinyl Ether	< 10.0	ug/L		5/9/2018 17:18
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2018 17:18
Acetone	< 10.0	ug/L		5/9/2018 17:18
Benzene	< 1.00	ug/L		5/9/2018 17:18
Bromodichloromethane	< 2.00	ug/L		5/9/2018 17:18
Bromoform	< 5.00	ug/L		5/9/2018 17:18
Bromomethane	< 2.00	ug/L		5/9/2018 17:18
Carbon Tetrachloride	< 2.00	ug/L		5/9/2018 17:18
Chlorobenzene	< 2.00	ug/L		5/9/2018 17:18
Chloroethane	< 2.00	ug/L		5/9/2018 17:18
Chloroform	< 2.00	ug/L		5/9/2018 17:18
Chloromethane	< 2.00	ug/L		5/9/2018 17:18



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent						
Lab Sample ID:	181702-01			Dat	e Sampled:	4/26/2018	
Matrix:	Water			Dat	e Received:	4/27/2018	
cis-1,3-Dichloroprope	ne	< 2.00	ug/L			5/9/2018	17:18
Dibromochlorometha	ne	< 2.00	ug/L			5/9/2018	17:18
Ethylbenzene		< 2.00	ug/L			5/9/2018	17:18
Methylene chloride		< 5.00	ug/L			5/9/2018	17:18
Tetrachloroethene		< 2.00	ug/L			5/9/2018	17:18
Toluene		< 2.00	ug/L			5/9/2018	17:18
trans-1,2-Dichloroethe	ene	< 2.00	ug/L			5/9/2018	17:18
trans-1,3-Dichloropro	pene	< 2.00	ug/L			5/9/2018	17:18
Trichloroethene		< 2.00	ug/L			5/9/2018	17:18
Vinyl chloride		< 2.00	ug/L			5/9/2018	17:18
<u>Surrogate</u>		<u>Pe</u> r	rcent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4	ļ.		110	77.2 - 121		5/9/2018	17:18
4-Bromofluorobenzen	e		88.7	70 - 123		5/9/2018	17:18
Pentafluorobenzene			96.7	85.4 - 110		5/9/2018	17:18
Toluene-D8			95.0	83.8 - 112		5/9/2018	17:18

Method Reference(s): EPA 624.1

Data File: x50509.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

Standard 5 day Rush 3 day Rush 2 day Rush 1 day Other please indicate: 10 Batch QC Category A Category B Category B	Turnaround Time Availability contingent upon lab at	10	0 0	7	0	(h	4	ω	N	1 4/26/2018 / 300 X	DATE COLLECTED COLLECTED S B		RFA Monthly Sampling DEQ-98045 PO# 18004885	PROJECT REFERENCE				PARADIGM	
Basic EDD NYSDEC EDD Other EDD please indicate:	rnaround Time Report Supplements Availability contingent upon lab approval: additional fees may apply.									Effluent	SAMPLE IDENTIFIER	_	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTN: Dennis Peck	PHONE 428-6884	CITY: Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	REPORT TO:
Resimpled By Received By Received @ Lab By Date Pacceived @ Lab By Date Date	Down Feck &									Water 3 X X	X-B-B-E WMDOO TO BMBECZ WBMZ-B-ZOO 624 Site Specific pH	REQUESTED ANALYSIS	WA - Water WG - Groundwater WW - Wastewater	ATTN:	PHONE:	ZIP 14614 CITY: STATE:	ADDRESS:	CLIENT:	INVOICE TO:
Date/Time # 1500 Date/Time # 1500 P.I.F. 15/18 15:03 Date/Time See additional page for sample conditions.	2/12									624 Site Specific =VRFA Test Name	REMARKS	SIS	SO - Soil SD - Solid WP - Wipe SL - Sludge PT - Paint CK - Caulk	peckd@cityofrochester.gov	Email:	Quotation #: PO 18004885	181102)	•
nditions.										0]	PARADIGM LAB SAMPLE NUMBER	-	OL - Oil AR - Air						



Chain of Custody Supplement

Client:	City of Rochester	Completed by:	Glenn Pezzulo
Lab Project ID:	181702	Date:	4/27/18
	Sample Condition Per NELAC/ELAP 210,	Requirements /241/242/243/244	
Condition A	IELAC compliance with the sample co Yes	ndition requirements upon No	n receipt N/A
Container Type Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments	X VOA		
Preservation Comments	X VOA		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: CT ney		
Holding Time Comments		CK PH	
Temperature Comments	17 . C		X PH
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

182098

Referencing

RFA Quarterly Sampling DEQ-98045

Prepared

Wednesday, May 30, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Effluent

 Lab Sample ID:
 182098-01
 Date Sampled:
 5/15/2018

 Matrix:
 Water
 Date Received:
 5/15/2018

Metals

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		5/18/2018 16:30
Cadmium	< 0.00500	mg/L		5/18/2018 16:30
Chromium	< 0.0100	mg/L		5/18/2018 16:30
Copper	< 0.0200	mg/L		5/18/2018 16:30
Lead	< 0.0100	mg/L		5/18/2018 16:30
Nickel	< 0.0400	mg/L		5/18/2018 16:30
Selenium	< 0.0200	mg/L		5/18/2018 16:30
Zinc	< 0.0600	mg/L		5/18/2018 16:30

Method Reference(s): EPA 6010C

EPA 3005A

 Preparation Date:
 5/17/2018

 Data File:
 180518B

Chlorinated Pesticides

Analyte	Result	<u>Units</u>	Qualifier Date Analyzed
4,4-DDD	< 0.100	ug/L	5/21/2018 15:54
4,4-DDE	< 0.100	ug/L	5/21/2018 15:54
4,4-DDT	< 0.100	ug/L	5/21/2018 15:54
Aldrin	< 0.100	ug/L	5/21/2018 15:54
alpha-BHC	< 0.100	ug/L	5/21/2018 15:54
beta-BHC	< 0.100	ug/L	5/21/2018 15:54
cis-Chlordane	< 0.100	ug/L	5/21/2018 15:54
delta-BHC	< 0.100	ug/L	5/21/2018 15:54
Dieldrin	< 0.100	ug/L	5/21/2018 15:54
Endosulfan I	0.128	ug/L	5/21/2018 15:54
Endosulfan II	< 0.100	ug/L	5/21/2018 15:54
Endosulfan Sulfate	< 0.100	ug/L	5/21/2018 15:54
Endrin	< 0.100	ug/L	5/21/2018 15:54
Endrin Aldehyde	< 0.100	ug/L	5/21/2018 15:54
gamma-BHC (Lindane)	< 0.100	ug/L	5/21/2018 15:54



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier:EffluentLab Sample ID:182098-01Date Sampled:5/15/2018Matrix:WaterDate Received:5/15/2018

Heptachlor 0.212 ug/L 5/21/2018 15:54 < 0.100 Heptachlor Epoxide ug/L 5/21/2018 15:54 Methoxychlor < 0.100 ug/L 5/21/2018 15:54 Toxaphene < 1.00 ug/L 5/21/2018 15:54 trans-Chlordane < 0.100 ug/L 5/21/2018 15:54 **Surrogate Percent Recovery Limits Outliers Date Analyzed** 80.7 Decachlorobiphenyl (1) 15.9 - 138 5/21/2018 15:54 97.9 20 - 112 Tetrachloro-m-xylene (1) 5/21/2018 15:54

Method Reference(s):EPA 608.3Preparation Date:5/18/2018

pН

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.24 @ 18.1 C
 S.U.
 5/15/2018 16:10

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Result	<u>Units</u>		Qualifier	Date Anal	yzed
14.3	ug/L			5/20/2018	04:42
Percent	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
6	7.0	31.2 - 108		5/20/2018	04:42
7	6.3	48.3 - 106		5/20/2018	04:42
8	32.6	52.2 - 117		5/20/2018	04:42
	14.3 Percent 6		14.3 ug/L Percent Recovery Limits 67.0 31.2 - 108 76.3 48.3 - 106	14.3 ug/L Percent Recovery Limits Outliers 67.0 31.2 - 108 76.3 48.3 - 106	14.3 ug/L 5/20/2018 Percent Recovery Limits Outliers Date Analy 67.0 31.2 - 108 5/20/2018 76.3 48.3 - 106 5/20/2018

Method Reference(s): EPA 625.1
EPA 3510C
Preparation Date: 5/17/2018
Data File: B27532.D

Volatile Organics

Analyte	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/25/2018 14:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/25/2018 14:12
1,1,2-Trichloroethane	< 2.00	ug/L		5/25/2018 14:12



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier:	Effluent					
Lab Sample ID:	182098-01			Date Sampled:	5/15/2018	
Matrix:	Water			Date Received:	5/15/2018	
1,1-Dichloroethane		7.19	ug/L		5/25/2018	14:12
1,1-Dichloroethene		< 2.00	ug/L		5/25/2018	14:12
1,2-Dichlorobenzene		< 2.00	ug/L		5/25/2018	14:12
1,2-Dichloroethane		< 2.00	ug/L		5/25/2018	14:12
1,2-Dichloropropane		< 2.00	ug/L		5/25/2018	14:12
1,3-Dichlorobenzene		< 2.00	ug/L		5/25/2018	14:12
1,4-Dichlorobenzene		< 2.00	ug/L		5/25/2018	14:12
2-Butanone		17.7	ug/L		5/25/2018	14:12
2-Chloroethyl vinyl Ethe	r	< 10.0	ug/L		5/25/2018	14:12
4-Methyl-2-pentanone		< 5.00	ug/L		5/25/2018	14:12
Acetone		11.4	ug/L		5/25/2018	14:12
Benzene		< 1.00	ug/L		5/25/2018	14:12
Bromodichloromethane		< 2.00	ug/L		5/25/2018	14:12
Bromoform		< 5.00	ug/L		5/25/2018	14:12
Bromomethane		< 2.00	ug/L		5/25/2018	14:12
Carbon Tetrachloride		< 2.00	ug/L		5/25/2018	14:12
Chlorobenzene		< 2.00	ug/L		5/25/2018	14:12
Chloroethane		< 2.00	ug/L		5/25/2018	14:12
Chloroform		< 2.00	ug/L		5/25/2018	14:12
Chloromethane		< 2.00	ug/L		5/25/2018	14:12
cis-1,3-Dichloropropene		< 2.00	ug/L		5/25/2018	14:12
Dibromochloromethane		< 2.00	ug/L		5/25/2018	14:12
Ethylbenzene		< 2.00	ug/L		5/25/2018	14:12
Methylene chloride		< 5.00	ug/L		5/25/2018	14:12
Tetrachloroethene		< 2.00	ug/L		5/25/2018	14:12
Toluene		< 2.00	ug/L		5/25/2018	14:12
trans-1,2-Dichloroethen	e	< 2.00	ug/L		5/25/2018	14:12
trans-1,3-Dichloroprope	ne	< 2.00	ug/L		5/25/2018	14:12
Trichloroethene		< 2.00	ug/L		5/25/2018	14:12
Vinyl chloride		< 2.00	ug/L		5/25/2018	14:12



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Effluent

 Lab Sample ID:
 182098-01
 Date Sampled:
 5/15/2018

 Matrix:
 Water
 Date Received:
 5/15/2018

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	109	77.2 - 121		5/25/2018	14:12
4-Bromofluorobenzene	87.1	70 - 123		5/25/2018	14:12
Pentafluorobenzene	95.7	85.4 - 110		5/25/2018	14:12
Toluene-D8	95.7	83.8 - 112		5/25/2018	14:12

Method Reference(s):EPA 624.1Data File:x51099.D



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Influent

Lab Sample ID:182098-02Date Sampled:5/15/2018Matrix:WaterDate Received:5/15/2018

Chlorinated Pesticides

Analyte	Result	<u>Units</u>		Qualifier	Date Analy	yzed
4,4-DDD	< 0.100	ug/L			5/21/2018	16:09
4,4-DDE	< 0.100	ug/L			5/21/2018	16:09
4,4-DDT	< 0.100	ug/L			5/21/2018	16:09
Aldrin	< 0.100	ug/L			5/21/2018	16:09
alpha-BHC	< 0.100	ug/L			5/21/2018	16:09
beta-BHC	< 0.100	ug/L			5/21/2018	16:09
cis-Chlordane	< 0.100	ug/L			5/21/2018	16:09
delta-BHC	< 0.100	ug/L			5/21/2018	16:09
Dieldrin	< 0.100	ug/L			5/21/2018	16:09
Endosulfan I	0.143	ug/L			5/21/2018	16:09
Endosulfan II	< 0.100	ug/L			5/21/2018	16:09
Endosulfan Sulfate	< 0.100	ug/L			5/21/2018	16:09
Endrin	< 0.100	ug/L			5/21/2018	16:09
Endrin Aldehyde	< 0.100	ug/L			5/21/2018	16:09
gamma-BHC (Lindane)	< 0.100	ug/L			5/21/2018	16:09
Heptachlor	< 0.100	ug/L			5/21/2018	16:09
Heptachlor Epoxide	< 0.100	ug/L			5/21/2018	16:09
Methoxychlor	< 0.100	ug/L			5/21/2018	16:09
Toxaphene	< 1.00	ug/L			5/21/2018	16:09
trans-Chlordane	< 0.100	ug/L			5/21/2018	16:09
<u>Surrogate</u>	Perce	nt Recovery	<u>Limits</u>	Outliers	Date Analy	zed
Decachlorobiphenyl (1)		69.5	15.9 - 138		5/21/2018	16:09
Tetrachloro-m-xylene (1)		107	20 - 112		5/21/2018	16:09

Method Reference(s): EPA 608.3
Preparation Date: 5/18/2018

Volatile Organics

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	5100	ug/L		5/25/2018 14:36



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier:	Influent					
Lab Sample ID:	182098-02			Date Sampled:	5/15/2018	
Matrix:	Water			Date Received:	5/15/2018	
1,1,2,2-Tetrachloroetha	ine	< 200	ug/L		5/25/2018	14:3
1,1,2-Trichloroethane		< 200	ug/L		5/25/2018	14:3
1,1-Dichloroethane		7960	ug/L		5/25/2018	14:3
1,1-Dichloroethene		277	ug/L		5/25/2018	14:3
1,2-Dichlorobenzene		< 200	ug/L		5/25/2018	14:3
1,2-Dichloroethane		< 200	ug/L		5/25/2018	14:3
1,2-Dichloropropane		< 200	ug/L		5/25/2018	14:3
1,3-Dichlorobenzene		< 200	ug/L		5/25/2018	14:3
1,4-Dichlorobenzene		< 200	ug/L		5/25/2018	14:3
2-Butanone		< 1000	ug/L		5/25/2018	14:3
2-Chloroethyl vinyl Eth	er	< 1000	ug/L		5/25/2018	14:3
4-Methyl-2-pentanone		< 500	ug/L		5/25/2018	14:3
Acetone		< 1000	ug/L		5/25/2018	14:3
Benzene		< 100	ug/L		5/25/2018	14:3
Bromodichloromethane	e	< 200	ug/L		5/25/2018	14:3
Bromoform		< 500	ug/L		5/25/2018	14:3
Bromomethane		< 200	ug/L		5/25/2018	14:3
Carbon Tetrachloride		< 200	ug/L		5/25/2018	14:3
Chlorobenzene		< 200	ug/L		5/25/2018	14:3
Chloroethane		505	ug/L		5/25/2018	14:3
Chloroform		< 200	ug/L		5/25/2018	14:3
Chloromethane		< 200	ug/L		5/25/2018	14:3
cis-1,3-Dichloropropen	e	< 200	ug/L		5/25/2018	14:3
Dibromochloromethane	e	< 200	ug/L		5/25/2018	14:3
Ethylbenzene		< 200	ug/L		5/25/2018	14:3
Methylene chloride		< 500	ug/L		5/25/2018	14:3
Tetrachloroethene		< 200	ug/L		5/25/2018	14:3
Toluene		305	ug/L		5/25/2018	14:3
trans-1,2-Dichloroether	ne	< 200	ug/L		5/25/2018	14:3
trans-1,3-Dichloroprop	ene	< 200	ug/L		5/25/2018	14:3
Trichloroethene		< 200	ug/L		5/25/2018	14:3
Vinyl chloride		1440	ug/L		5/25/2018	14.3



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling DEQ-98045

Sample Identifier: Influent

 Lab Sample ID:
 182098-02
 Date Sampled:
 5/15/2018

 Matrix:
 Water
 Date Received:
 5/15/2018

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 77.2 - 121 1,2-Dichloroethane-d4 116 5/25/2018 14:36 4-Bromofluorobenzene 87.5 70 - 123 5/25/2018 14:36 Pentafluorobenzene 98.9 85.4 - 110 5/25/2018 14:36 Toluene-D8 91.2 83.8 - 112 5/25/2018 14:36

Method Reference(s):EPA 624.1Data File:x51100.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

Availability continuity continuit	Turnaround Time	10	Φ 8	7	o	On	4	ω	2 5/15/2018 /440	1 5/15/2018 14/5	DATE COLLECTED COLLECTED		RFA Quarterly Sampling DEQ-98045	PROJECT REFERENCE				PARADIGM	
Eatch Categ Categ Categ Cother	0			-	-	-			0	2)	CTED P M OC	-	ling DE	ERENC		1		G ∡	
upon lab app Batch QC Category A Category B Other please indicate:		H		t		-			×	×	o > ¤ o		2-9804	Е					
Availability contingent upon lab approval; additional fees may apply. 15 day Batch QC Category A Category B MYSDEC EDD NYSDEC EDD Other EDD please indicate: 10 Other EDD please indicate:	Report Supplements								Influent	Effluent	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	Dennis Peck	PHONE: 428-6884	CITY: Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	212001110
Sampled By Relydduished By Received By Received & Lab By									Water	Water	× − π + ≥ ≅		WA - Water WG - Groundwater			ZIP 14614	n 300B		
2/15/18 2/15/18		+	H	1		-			و د	er 6			water	ATTN:	PHONE:		ADDRESS	CLIENT:	
15:36 S	the state of	7							×	× × × ×	624 Site Specific 625 Site Specific 608 Pesticides Metals*	REQUESTED ANA	DW - Drinking Water WW - Wastewater			SI A		INVOICE IO:	BOIONNI
Date/TI	1											ANALYSIS				π			5
00 00			AG, CG	nic tals	Metals list:		Diethyl	SVOA List:	625 Site	624 Site			SO - Soil SL - Sludge	8	*	217.	;		
Total Cost: 1535 P.I.F. 15:40 See additional page for sample conditions.	1		AS, Cd, Cl, Cu, Fb, Ni, Se, Zii	IIST.	lict:		Diethyl phthalate	ist	625 Site Specific = SMISC	624 Site Specific =VRFA Test Name	REMARKS		SD - Solid WP - Wipe PT - Paint CK - Caulk	peckd@cityofrochester.gov	Email:	Quotation #: PO 18004885	182098	LAB PROJECT ID	
nditions.									مر	0	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air	181		85			



Chain of Custody Supplement

Client:	City of Rochester	Completed by:	Glenn Pezzulo
Lab Project ID:	182098	Date:	5/15/18
	Sample Condition Re Per NELAC/ELAP 210/241		
Condition [NELAC compliance with the sample condi Yes	tion requirements upo No	on receipt N/A
Container Type			
Comments	Y		
Transferred to method- compliant container			
Headspace (<1 mL) Comments	VOA		
Preservation Comments	VOA metals		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: C1 neg.		
Holding Time Comments		T pt	
Temperature Comments	10 ~ C		X petals
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

182320

Referencing

RFA Semi-Annual GW Sampling DEQ-98045

Prepared

Friday, June 8, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 6I

Lab Sample ID:182320-01Date Sampled:5/24/2018Matrix:WaterDate Received:5/24/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		6/6/2018 18:0	1
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/6/2018 18:0	1
1,1,2-Trichloroethane	< 2.00	ug/L		6/6/2018 18:0	1
1,1-Dichloroethane	< 2.00	ug/L		6/6/2018 18:0	1
1,1-Dichloroethene	< 2.00	ug/L		6/6/2018 18:0	1
1,2-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:0	1
1,2-Dichloroethane	< 2.00	ug/L		6/6/2018 18:0	1
1,2-Dichloropropane	< 2.00	ug/L		6/6/2018 18:0	1
1,3-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:0	1
1,4-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:0	1
2-Chloroethyl vinyl Ether	< 10.0	ug/L		6/6/2018 18:0	1
Benzene	< 1.00	ug/L		6/6/2018 18:0	1
Bromodichloromethane	< 2.00	ug/L		6/6/2018 18:0	1
Bromoform	< 5.00	ug/L		6/6/2018 18:0	1
Bromomethane	< 2.00	ug/L		6/6/2018 18:0	1
Carbon Tetrachloride	< 2.00	ug/L		6/6/2018 18:0	1
Chlorobenzene	< 2.00	ug/L		6/6/2018 18:0	1
Chloroethane	< 2.00	ug/L		6/6/2018 18:0	1
Chloroform	< 2.00	ug/L		6/6/2018 18:0	1
Chloromethane	< 2.00	ug/L		6/6/2018 18:0	1
cis-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 18:0	1
Dibromochloromethane	< 2.00	ug/L		6/6/2018 18:0	1
Ethylbenzene	< 2.00	ug/L		6/6/2018 18:0	1
Methyl tert-butyl Ether	< 2.00	ug/L		6/6/2018 18:0	1
Methylene chloride	< 5.00	ug/L		6/6/2018 18:0	1
Tetrachloroethene	< 2.00	ug/L		6/6/2018 18:0	1
Toluene	< 2.00	ug/L		6/6/2018 18:0	1
trans-1,2-Dichloroethene	< 2.00	ug/L		6/6/2018 18:0	1
trans-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 18:0	1



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 6I

Lab Sample ID: 182320-01 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 6/6/2018
 18:01

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 6/6/2018
 18:01

 Vinyl chloride
 6.75
 ug/L
 6/6/2018
 18:01

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 99.7 77.2 - 121 6/6/2018 18:01 4-Bromofluorobenzene 85.5 70 - 123 6/6/2018 18:01 Pentafluorobenzene 92.6 85.4 - 110 6/6/2018 18:01 Toluene-D8 93.8 83.8 - 112 6/6/2018 18:01

Method Reference(s):EPA 624.1Data File:x51431.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7I

 Lab Sample ID:
 182320-02
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	333	ug/L		6/6/2018 16:05
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		6/6/2018 16:05
1,1,2-Trichloroethane	< 10.0	ug/L		6/6/2018 16:05
1,1-Dichloroethane	442	ug/L		6/6/2018 16:05
1,1-Dichloroethene	36.7	ug/L		6/6/2018 16:05
1,2-Dichlorobenzene	< 10.0	ug/L		6/6/2018 16:05
1,2-Dichloroethane	< 10.0	ug/L		6/6/2018 16:05
1,2-Dichloropropane	< 10.0	ug/L		6/6/2018 16:05
1,3-Dichlorobenzene	< 10.0	ug/L		6/6/2018 16:05
1,4-Dichlorobenzene	< 10.0	ug/L		6/6/2018 16:05
2-Chloroethyl vinyl Ether	< 50.0	ug/L		6/6/2018 16:05
Benzene	< 5.00	ug/L		6/6/2018 16:05
Bromodichloromethane	< 10.0	ug/L		6/6/2018 16:05
Bromoform	< 25.0	ug/L		6/6/2018 16:05
Bromomethane	< 10.0	ug/L		6/6/2018 16:05
Carbon Tetrachloride	< 10.0	ug/L		6/6/2018 16:05
Chlorobenzene	< 10.0	ug/L		6/6/2018 16:05
Chloroethane	< 10.0	ug/L		6/6/2018 16:05
Chloroform	< 10.0	ug/L		6/6/2018 16:05
Chloromethane	< 10.0	ug/L		6/6/2018 16:05
cis-1,3-Dichloropropene	< 10.0	ug/L		6/6/2018 16:05
Dibromochloromethane	< 10.0	ug/L		6/6/2018 16:05
Ethylbenzene	< 10.0	ug/L		6/6/2018 16:05
Methyl tert-butyl Ether	< 10.0	ug/L		6/6/2018 16:05
Methylene chloride	< 25.0	ug/L		6/6/2018 16:05
Tetrachloroethene	< 10.0	ug/L		6/6/2018 16:05
Toluene	< 10.0	ug/L		6/6/2018 16:05
trans-1,2-Dichloroethene	< 10.0	ug/L		6/6/2018 16:05
trans-1,3-Dichloropropene	< 10.0	ug/L		6/6/2018 16:05



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7I

Lab Sample ID: 182320-02 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 10.0</td>
 ug/L
 6/6/2018 16:05

 Trichlorofluoromethane
 < 10.0</td>
 ug/L
 6/6/2018 16:05

 Vinyl chloride
 160
 ug/L
 6/6/2018 16:05

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 97.8 77.2 - 121 6/6/2018 16:05 4-Bromofluorobenzene 92.7 70 - 123 6/6/2018 16:05 Pentafluorobenzene 99.2 85.4 - 110 6/6/2018 16:05 Toluene-D8 99.6 83.8 - 112 6/6/2018 16:05

Method Reference(s): EPA 624.1

Data File: x51426.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7S

 Lab Sample ID:
 182320-03
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	133	ug/L	6/6/2018 23:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	6/6/2018 23:57
1,1,2-Trichloroethane	< 2.00	ug/L	6/6/2018 23:57
1,1-Dichloroethane	42.7	ug/L	6/6/2018 23:57
1,1-Dichloroethene	< 2.00	ug/L	6/6/2018 23:57
1,2-Dichlorobenzene	< 2.00	ug/L	6/6/2018 23:57
1,2-Dichloroethane	< 2.00	ug/L	6/6/2018 23:57
1,2-Dichloropropane	< 2.00	ug/L	6/6/2018 23:57
1,3-Dichlorobenzene	< 2.00	ug/L	6/6/2018 23:57
1,4-Dichlorobenzene	< 2.00	ug/L	6/6/2018 23:57
2-Chloroethyl vinyl Ether	< 10.0	ug/L	6/6/2018 23:57
Benzene	< 1.00	ug/L	6/6/2018 23:57
Bromodichloromethane	< 2.00	ug/L	6/6/2018 23:57
Bromoform	< 5.00	ug/L	6/6/2018 23:57
Bromomethane	< 2.00	ug/L	6/6/2018 23:57
Carbon Tetrachloride	< 2.00	ug/L	6/6/2018 23:57
Chlorobenzene	< 2.00	ug/L	6/6/2018 23:57
Chloroethane	< 2.00	ug/L	6/6/2018 23:57
Chloroform	< 2.00	ug/L	6/6/2018 23:57
Chloromethane	< 2.00	ug/L	6/6/2018 23:57
cis-1,3-Dichloropropene	< 2.00	ug/L	6/6/2018 23:57
Dibromochloromethane	< 2.00	ug/L	6/6/2018 23:57
Ethylbenzene	< 2.00	ug/L	6/6/2018 23:57
Methyl tert-butyl Ether	< 2.00	ug/L	6/6/2018 23:57
Methylene chloride	< 5.00	ug/L	6/6/2018 23:57
Tetrachloroethene	2.65	ug/L	6/6/2018 23:57
Toluene	< 2.00	ug/L	6/6/2018 23:57
trans-1,2-Dichloroethene	< 2.00	ug/L	6/6/2018 23:57
trans-1,3-Dichloropropene	< 2.00	ug/L	6/6/2018 23:57



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7S

Lab Sample ID: 182320-03 **Date Sampled:** 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

 Trichloroethene
 13.2
 ug/L
 6/6/2018
 23:57

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 6/6/2018 23:57

 Vinyl chloride
 2.28
 ug/L
 6/6/2018 23:57

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 96.4 77.2 - 121 6/6/2018 23:57 4-Bromofluorobenzene 102 70 - 123 6/6/2018 23:57 Pentafluorobenzene 97.9 85.4 - 110 6/6/2018 23:57 Toluene-D8 99.7 83.8 - 112 6/6/2018 23:57

Method Reference(s): EPA 624.1

Data File: x51446.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 8I

 Lab Sample ID:
 182320-04
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 10.0	ug/L		6/7/2018 00:21
< 1.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 5.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 5.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
< 2.00	ug/L		6/7/2018 00:21
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Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 8I

Lab Sample ID: 182320-04 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 6/7/2018 00:21

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 6/7/2018 00:21

 Vinyl chloride
 7.18
 ug/L
 6/7/2018 00:21

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 97.5 77.2 - 121 6/7/2018 00:21 6/7/2018 4-Bromofluorobenzene 98.5 70 - 123 00:21 Pentafluorobenzene 98.0 00:21 85.4 - 110 6/7/2018 Toluene-D8 98.5 83.8 - 112 6/7/2018 00:21

Method Reference(s):EPA 624.1Data File:x51447.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 9D

 Lab Sample ID:
 182320-05
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/6/2018 18:24
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/6/2018 18:24
1,1,2-Trichloroethane	< 2.00	ug/L		6/6/2018 18:24
1,1-Dichloroethane	< 2.00	ug/L		6/6/2018 18:24
1,1-Dichloroethene	< 2.00	ug/L		6/6/2018 18:24
1,2-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:24
1,2-Dichloroethane	< 2.00	ug/L		6/6/2018 18:24
1,2-Dichloropropane	< 2.00	ug/L		6/6/2018 18:24
1,3-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:24
1,4-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:24
2-Chloroethyl vinyl Ether	< 10.0	ug/L		6/6/2018 18:24
Benzene	< 1.00	ug/L		6/6/2018 18:24
Bromodichloromethane	< 2.00	ug/L		6/6/2018 18:24
Bromoform	< 5.00	ug/L		6/6/2018 18:24
Bromomethane	< 2.00	ug/L		6/6/2018 18:24
Carbon Tetrachloride	< 2.00	ug/L		6/6/2018 18:24
Chlorobenzene	< 2.00	ug/L		6/6/2018 18:24
Chloroethane	< 2.00	ug/L		6/6/2018 18:24
Chloroform	< 2.00	ug/L		6/6/2018 18:24
Chloromethane	< 2.00	ug/L		6/6/2018 18:24
cis-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 18:24
Dibromochloromethane	< 2.00	ug/L		6/6/2018 18:24
Ethylbenzene	< 2.00	ug/L		6/6/2018 18:24
Methyl tert-butyl Ether	< 2.00	ug/L		6/6/2018 18:24
Methylene chloride	< 5.00	ug/L		6/6/2018 18:24
Tetrachloroethene	< 2.00	ug/L		6/6/2018 18:24
Toluene	< 2.00	ug/L		6/6/2018 18:24
trans-1,2-Dichloroethene	< 2.00	ug/L		6/6/2018 18:24
trans-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 18:24



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 9D

Lab Sample ID: 182320-05 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 6/6/2018 18:24

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 6/6/2018 18:24

Vinyl chloride < 2.00 ug/L 6/6/2018 18:24

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 103 77.2 - 121 6/6/2018 18:24 82.7 70 - 123 4-Bromofluorobenzene 6/6/2018 18:24 Pentafluorobenzene 92.0 18:24 85.4 - 110 6/6/2018 Toluene-D8 93.2 83.8 - 112 6/6/2018 18:24

Method Reference(s):EPA 624.1Data File:x51432.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 10I

 Lab Sample ID:
 182320-06
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u> </u>				
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/6/2018 18:48
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/6/2018 18:48
1,1,2-Trichloroethane	< 2.00	ug/L		6/6/2018 18:48
1,1-Dichloroethane	< 2.00	ug/L		6/6/2018 18:48
1,1-Dichloroethene	< 2.00	ug/L		6/6/2018 18:48
1,2-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:48
1,2-Dichloroethane	< 2.00	ug/L		6/6/2018 18:48
1,2-Dichloropropane	< 2.00	ug/L		6/6/2018 18:48
1,3-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:48
1,4-Dichlorobenzene	< 2.00	ug/L		6/6/2018 18:48
2-Chloroethyl vinyl Ether	< 10.0	ug/L		6/6/2018 18:48
Benzene	< 1.00	ug/L		6/6/2018 18:48
Bromodichloromethane	< 2.00	ug/L		6/6/2018 18:48
Bromoform	< 5.00	ug/L		6/6/2018 18:48
Bromomethane	< 2.00	ug/L		6/6/2018 18:48
Carbon Tetrachloride	< 2.00	ug/L		6/6/2018 18:48
Chlorobenzene	< 2.00	ug/L		6/6/2018 18:48
Chloroethane	< 2.00	ug/L		6/6/2018 18:48
Chloroform	< 2.00	ug/L		6/6/2018 18:48
Chloromethane	< 2.00	ug/L		6/6/2018 18:48
cis-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 18:48
Dibromochloromethane	< 2.00	ug/L		6/6/2018 18:48
Ethylbenzene	< 2.00	ug/L		6/6/2018 18:48
Methyl tert-butyl Ether	< 2.00	ug/L		6/6/2018 18:48
Methylene chloride	< 5.00	ug/L		6/6/2018 18:48
Tetrachloroethene	< 2.00	ug/L		6/6/2018 18:48
Toluene	< 2.00	ug/L		6/6/2018 18:48
trans-1,2-Dichloroethene	< 2.00	ug/L		6/6/2018 18:48
trans-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 18:48



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 10I

Lab Sample ID: 182320-06 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 6/6/2018
 18:48

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 6/6/2018
 18:48

 Vinyl chloride
 < 2.00</td>
 ug/L
 6/6/2018
 18:48

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 104 77.2 - 121 6/6/2018 18:48 70 - 123 4-Bromofluorobenzene 84.4 6/6/2018 18:48 Pentafluorobenzene 91.8 85.4 - 110 6/6/2018 18:48 Toluene-D8 93.5 83.8 - 112 6/6/2018 18:48

Method Reference(s):EPA 624.1Data File:x51433.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 11I

 Lab Sample ID:
 182320-07
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		6/6/2018 17:38
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		6/6/2018 17:38
1,1,2-Trichloroethane	< 10.0	ug/L		6/6/2018 17:38
1,1-Dichloroethane	< 10.0	ug/L		6/6/2018 17:38
1,1-Dichloroethene	< 10.0	ug/L		6/6/2018 17:38
1,2-Dichlorobenzene	< 10.0	ug/L		6/6/2018 17:38
1,2-Dichloroethane	< 10.0	ug/L		6/6/2018 17:38
1,2-Dichloropropane	< 10.0	ug/L		6/6/2018 17:38
1,3-Dichlorobenzene	< 10.0	ug/L		6/6/2018 17:38
1,4-Dichlorobenzene	< 10.0	ug/L		6/6/2018 17:38
2-Chloroethyl vinyl Ether	< 50.0	ug/L		6/6/2018 17:38
Benzene	< 5.00	ug/L		6/6/2018 17:38
Bromodichloromethane	< 10.0	ug/L		6/6/2018 17:38
Bromoform	< 25.0	ug/L		6/6/2018 17:38
Bromomethane	< 10.0	ug/L		6/6/2018 17:38
Carbon Tetrachloride	< 10.0	ug/L		6/6/2018 17:38
Chlorobenzene	< 10.0	ug/L		6/6/2018 17:38
Chloroethane	< 10.0	ug/L		6/6/2018 17:38
Chloroform	< 10.0	ug/L		6/6/2018 17:38
Chloromethane	< 10.0	ug/L		6/6/2018 17:38
cis-1,3-Dichloropropene	< 10.0	ug/L		6/6/2018 17:38
Dibromochloromethane	< 10.0	ug/L		6/6/2018 17:38
Ethylbenzene	< 10.0	ug/L		6/6/2018 17:38
Methyl tert-butyl Ether	< 10.0	ug/L		6/6/2018 17:38
Methylene chloride	< 25.0	ug/L		6/6/2018 17:38
Tetrachloroethene	< 10.0	ug/L		6/6/2018 17:38
Toluene	< 10.0	ug/L		6/6/2018 17:38
trans-1,2-Dichloroethene	< 10.0	ug/L		6/6/2018 17:38
trans-1,3-Dichloropropene	< 10.0	ug/L		6/6/2018 17:38



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 11I

Lab Sample ID: 182320-07 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 10.0</td>
 ug/L
 6/6/2018 17:38

 Trichlorofluoromethane
 < 10.0</td>
 ug/L
 6/6/2018 17:38

 Vinyl chloride
 262
 ug/L
 6/6/2018 17:38

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 101 77.2 - 121 6/6/2018 17:38 4-Bromofluorobenzene 82.2 70 - 123 6/6/2018 17:38 Pentafluorobenzene 99.6 85.4 - 110 6/6/2018 17:38 Toluene-D8 98.3 83.8 - 112 6/6/2018 17:38

Method Reference(s):EPA 624.1Data File:x51430.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 15S

 Lab Sample ID:
 182320-08
 Date Sampled:
 5/24/2018

 Matrix:
 Water
 Date Received:
 5/24/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		6/6/2018 19:11
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		6/6/2018 19:11
1,1,2-Trichloroethane	< 2.00	ug/L		6/6/2018 19:11
1,1-Dichloroethane	< 2.00	ug/L		6/6/2018 19:11
1,1-Dichloroethene	< 2.00	ug/L		6/6/2018 19:11
1,2-Dichlorobenzene	< 2.00	ug/L		6/6/2018 19:11
1,2-Dichloroethane	< 2.00	ug/L		6/6/2018 19:11
1,2-Dichloropropane	< 2.00	ug/L		6/6/2018 19:11
1,3-Dichlorobenzene	< 2.00	ug/L		6/6/2018 19:11
1,4-Dichlorobenzene	< 2.00	ug/L		6/6/2018 19:11
2-Chloroethyl vinyl Ether	< 10.0	ug/L		6/6/2018 19:11
Benzene	< 1.00	ug/L		6/6/2018 19:11
Bromodichloromethane	< 2.00	ug/L		6/6/2018 19:11
Bromoform	< 5.00	ug/L		6/6/2018 19:11
Bromomethane	< 2.00	ug/L		6/6/2018 19:11
Carbon Tetrachloride	< 2.00	ug/L		6/6/2018 19:11
Chlorobenzene	< 2.00	ug/L		6/6/2018 19:11
Chloroethane	< 2.00	ug/L		6/6/2018 19:11
Chloroform	< 2.00	ug/L		6/6/2018 19:11
Chloromethane	< 2.00	ug/L		6/6/2018 19:11
cis-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 19:11
Dibromochloromethane	< 2.00	ug/L		6/6/2018 19:11
Ethylbenzene	< 2.00	ug/L		6/6/2018 19:11
Methyl tert-butyl Ether	< 2.00	ug/L		6/6/2018 19:11
Methylene chloride	< 5.00	ug/L		6/6/2018 19:11
Tetrachloroethene	< 2.00	ug/L		6/6/2018 19:11
Toluene	< 2.00	ug/L		6/6/2018 19:11
trans-1,2-Dichloroethene	< 2.00	ug/L		6/6/2018 19:11
trans-1,3-Dichloropropene	< 2.00	ug/L		6/6/2018 19:11



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 15S

Lab Sample ID: 182320-08 **Date Sampled:** 5/24/2018

Matrix: Water Date Received: 5/24/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 6/6/2018 19:11

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 6/6/2018 19:11

 Vinyl chloride
 < 2.00</td>
 ug/L
 6/6/2018 19:11

 Surrogate
 Percent Recovery
 Limits
 Outliers
 Date Analyzed

 1,2-Dichloroethane-d4
 104
 77.2 - 121
 6/6/2018
 19:11

 4-Bromofluorobenzene
 85.5
 70 - 123
 6/6/2018
 19:11

 4-Bromofluorobenzene
 85.5
 70 - 123
 6/6/2018
 19:11

 Pentafluorobenzene
 91.0
 85.4 - 110
 6/6/2018
 19:11

 Toluene-D8
 94.0
 83.8 - 112
 6/6/2018
 19:11

Method Reference(s):EPA 624.1Data File:x51434.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

lota

H A H H B A H	0 1 0111									
ENVIRONMENTAL	MENTA		REPORT TO:		i E	INVOICE TO:	o.			
SERVICES, INC.	S, INC.		COMPANY: CITY OF ROCHESTER		COMPANY:					CLIENT PROJECT #:
179 Lake Avenue		ADD	ADDRESS: 30 CHURCH STREET, ROOM 300B		ADDRESS:				182320 PO.	PO 18004885
Rochester, NY 14608	608	CITY	CITY: ROCHESTER STATE: NY	4614	CITY:	6	STATE:	ZIP:	(W)	G DAYS)
(585) 647-2530 * (800) 724-1997	800) 724-199		PHONE: 585-428-6884 FAX: 585-428-6010		PHONE:	FAX:				STD OTHER
PROJECT NAME/SITE NAME:	AME:		ATTN: DENNIS PECK		ATTN:				1 2 3	5 ×
RFA semi-annu	ual GW sai	mplicon	RFA semi-annual GW samplifcomments: email results to peckd@cityofrochester.gov	cityofrocheste	r.gov					3
DEM-90043		-				REQUESTED ANA	D ANALYSIS			
			1 G	1 2 4 1	4 Z O O	S—				DADADIGMI AB
DATE	TIME	m → - 0 O	SAMPLE LOCATION/FIELD ID	×- л-	ສ m w s ສ m z - > ω 601/602 +	9260 SIMS 1,4 dioxan			REMARKS	SAMPLE NUMBER
15/24/18	1500	×	MW 6I	Water	2 X	Dry				0 -
2	1355	×	MW 7I	Water 24	×	*				ර ව
3	1350	×	MW 7S	Water	2 X					о ()
4	1430	×	MW 8I	Water	N					0
5	1346	×	MW 9D	Water	2 X					с V
6	1450	×	MW 101	Water	2 X				71	0
7	146	×	MW 111	Water	2 X				1	07
8	1415	×	MW 15S	Water	2					0
LAB USE ONLY	NLY**									
SAMPLE CONDITION: Check box if acceptable or note deviation:	ION: Check note deviatio	n:	CONTAINER TYPE: PRE	PRESERVATIONS:		HOLDING TIME:	Е	18	TEMPERATURE:	
Sampled By:	Dennis Peck	eck	Date/Time;	Relinguished By:	y:			Date/Time:	ime: Total Cost:	ost:
Relinquished By:	manne	1	Date/Time:	Received By:				Date/Time:	ime:	
Received By:	200			Received @ Lab By:		NO ON		Date/Time	Date/Time: P.I.F.	- 4
	9			1000 1600	1/5/24/18	1/19 16:13				
-				10 01620						



Chain of Custody Supplement

Lab Project ID:	188320	Date:	5/24/18
	Sample Condition Per NELAC/ELAP 210/2	41/242/243/244	
L' Condition	NELAC compliance with the sample con Yes	dition requirements upo No	on receipt N/A
Container Type Comments	<u> </u>		
Transferred to method- compliant container			
Headspace (<1 mL) Comments	X		
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA: CI neg.		
Holding Time Comments			
Temperature Comments	10°C iced		
Sufficient Sample Quantity Comments	X		



Analytical Report For

City of Rochester

For Lab Project ID

182733

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Monday, July 2, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent

 Lab Sample ID:
 182733-01
 Date Sampled:
 6/18/2018

 Matrix:
 Water
 Date Received:
 6/18/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.25 @ 25.0 C
 S.U.
 6/18/2018 13:38

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	6/28/2018 16:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	6/28/2018 16:57
1,1,2-Trichloroethane	< 2.00	ug/L	6/28/2018 16:57
1,1-Dichloroethane	5.08	ug/L	6/28/2018 16:57
1,1-Dichloroethene	< 2.00	ug/L	6/28/2018 16:57
1,2-Dichlorobenzene	< 2.00	ug/L	6/28/2018 16:57
1,2-Dichloroethane	< 2.00	ug/L	6/28/2018 16:57
1,2-Dichloropropane	< 2.00	ug/L	6/28/2018 16:57
1,3-Dichlorobenzene	< 2.00	ug/L	6/28/2018 16:57
1,4-Dichlorobenzene	< 2.00	ug/L	6/28/2018 16:57
2-Butanone	13.9	ug/L	6/28/2018 16:57
2-Chloroethyl vinyl Ether	< 10.0	ug/L	6/28/2018 16:57
4-Methyl-2-pentanone	< 5.00	ug/L	6/28/2018 16:57
Acetone	< 10.0	ug/L	6/28/2018 16:57
Benzene	< 1.00	ug/L	6/28/2018 16:57
Bromodichloromethane	< 2.00	ug/L	6/28/2018 16:57
Bromoform	< 5.00	ug/L	6/28/2018 16:57
Bromomethane	< 2.00	ug/L	6/28/2018 16:57
Carbon Tetrachloride	< 2.00	ug/L	6/28/2018 16:57
Chlorobenzene	< 2.00	ug/L	6/28/2018 16:57
Chloroethane	< 2.00	ug/L	6/28/2018 16:57
Chloroform	< 2.00	ug/L	6/28/2018 16:57
Chloromethane	< 2.00	ug/L	6/28/2018 16:57



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent						
Lab Sample ID:	182733-01			Dat	e Sampled:	6/18/2018	
Matrix:	Water			Dat	e Received:	6/18/2018	
cis-1,3-Dichloropropen	е	< 2.00	ug/L			6/28/2018	16:57
Dibromochloromethan	e	< 2.00	ug/L			6/28/2018	16:57
Ethylbenzene		< 2.00	ug/L			6/28/2018	16:57
Methylene chloride		< 5.00	ug/L			6/28/2018	16:57
Tetrachloroethene		< 2.00	ug/L			6/28/2018	16:57
Toluene		< 2.00	ug/L			6/28/2018	16:57
trans-1,2-Dichloroethe	ne	< 2.00	ug/L			6/28/2018	16:57
trans-1,3-Dichloroprop	ene	< 2.00	ug/L			6/28/2018	16:57
Trichloroethene		< 2.00	ug/L			6/28/2018	16:57
Vinyl chloride		< 2.00	ug/L			6/28/2018	16:57
<u>Surrogate</u>		<u>Pe</u>	rcent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4			96.7	77.2 - 121		6/28/2018	16:57
4-Bromofluorobenzene	•		95.1	70 - 123		6/28/2018	16:57
Pentafluorobenzene			102	85.4 - 110		6/28/2018	16:57
Toluene-D8			99.7	83.8 - 112		6/28/2018	16:57

Method Reference(s): EPA 624.1

Data File: x51978.D

 ${\it The\ analyte\ 2-Chloroethyl\ vinyl\ Ether\ does\ not\ recover\ from\ acid\ preserved\ VOA\ vials}$



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

Availability continuing the following standard 5 day Rush 3 day Rush 2 day Rush 1 day Other	Turnaround Time	10	9	σ	7	o	Oi	4	ω	2	1 6/18/2018 /000	DATE COLLECTED COLLECTED		RFA Monthly Sampling DEQ-98045 PO# 18004885	PROJECT REFERENCE				PARADIGM	
	ē										Ø	INE COTED		ling DE 04885	FEREN		1		GM	
Batch QC Category A Category B Other												OOSUON-Fm		≘Q-980	ICE				Water all	g kul
approva B	교	H									Ψ	n > n v			AT	PH	спү:	AD	은	
Availability contingent upon lab approval; additional fees may apply. I 5 day Batch QC Category A In Category B In Catego	Report Supplements										Effluent	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTN: Dennis Peck	PHONE: 428-6884	Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	REPORT TO:
Sampled By Received By Received By Received By	1										Water	×− ¤ ⊣ ▷ ≧ 0 m ∪ O O		WA - Water WG - Groundwater			ZIP 14614	300B		
ab By											3	πΟ ¤mመ≧⊂z ν¤mz->⊣z00		vater	ATTN:	PHONE:		ADDRESS	CLIENT:	
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5 16	()										×	рН	REQUESTE	DW - D						
0	>													DW - Drinking Water WW - Wastewater			STATE		III OIO	INVOICE TO:
Date/Time Date/Time Date/Time Date/Time			Ų										DANALYSIS				ni			
Time Time Time Time Time	\												-	SO - Soil SL - Sludge			ZIP:			
											624 Site			il Idge		X.				
Total Cost: 13:16											te Specific =VRFA Test Name	REMARKS		SD-Solid WP-Wipe PT-Paint CK-Caulk	peckd@cityofrochester.gov	Email:	Quotation #: PO 18004885	182733	LAB PROJECT ID	
											0/	PARADIGN LAE SAMPLE NUMBER		OL - Oil AR - Air						



Chain of Custody Supplement

Client: Lab Project ID:	City of Rochester 182733	Completed by: Date:	6/18/18
	Sample Condition Re Per NELAC/ELAP 210/241	equirements 1/242/243/244	
Condition	NELAC compliance with the sample condi Yes	ition requirements upoi No	n receipt N/A
Container Type Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments	X WA		
Preservation Comments	□ X VOA		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: C/ neg.		
Holding Time Comments		T PH	
Temperature Comments	23'(P1-1
Sufficient Sample Quantity Comments			
	-		



Analytical Report For

City of Rochester

For Lab Project ID

183209

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Tuesday, July 24, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent

Lab Sample ID:183209-01Date Sampled:7/17/2018Matrix:WaterDate Received:7/17/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.28 @ 24.7 C
 S.U.
 7/17/2018 15:12

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analy	yzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/18/2018	16:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/18/2018	16:35
1,1,2-Trichloroethane	< 2.00	ug/L		7/18/2018	16:35
1,1-Dichloroethane	3.13	ug/L		7/18/2018	16:35
1,1-Dichloroethene	< 2.00	ug/L		7/18/2018	16:35
1,2-Dichlorobenzene	< 2.00	ug/L		7/18/2018	16:35
1,2-Dichloroethane	< 2.00	ug/L		7/18/2018	16:35
1,2-Dichloropropane	< 2.00	ug/L		7/18/2018	16:35
1,3-Dichlorobenzene	< 2.00	ug/L		7/18/2018	16:35
1,4-Dichlorobenzene	< 2.00	ug/L		7/18/2018	16:35
2-Butanone	< 10.0	ug/L		7/18/2018	16:35
2-Chloroethyl vinyl Ether	< 10.0	ug/L		7/18/2018	16:35
4-Methyl-2-pentanone	< 5.00	ug/L		7/18/2018	16:35
Acetone	< 10.0	ug/L		7/18/2018	16:35
Benzene	< 1.00	ug/L		7/18/2018	16:35
Bromodichloromethane	< 2.00	ug/L		7/18/2018	16:35
Bromoform	< 5.00	ug/L		7/18/2018	16:35
Bromomethane	< 2.00	ug/L		7/18/2018	16:35
Carbon Tetrachloride	< 2.00	ug/L		7/18/2018	16:35
Chlorobenzene	< 2.00	ug/L		7/18/2018	16:35
Chloroethane	< 2.00	ug/L		7/18/2018	16:35
Chloroform	< 2.00	ug/L		7/18/2018	16:35
Chloromethane	< 2.00	ug/L		7/18/2018	16:35



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent						
Lab Sample ID:	183209-01			Dat	e Sampled:	7/17/2018	
Matrix:	Water			Dat	e Received:	7/17/2018	
cis-1,3-Dichloroproper	ie	< 2.00	ug/L			7/18/2018	16:35
Dibromochloromethan	e	< 2.00	ug/L			7/18/2018	16:35
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trans-1,3-Dichloroprop	ene	< 2.00	ug/L			7/18/2018	16:35
Trichloroethene		< 2.00	ug/L			7/18/2018	16:35
Vinyl chloride		< 2.00	ug/L			7/18/2018	16:35
<u>Surrogate</u>		<u>Per</u>	cent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4			101	80.7 - 121		7/18/2018	16:35
4-Bromofluorobenzene	9		90.0	74.3 - 121		7/18/2018	16:35
Pentafluorobenzene			100	86.2 - 111		7/18/2018	16:35
Toluene-D8			96.5	86.2 - 112		7/18/2018	16:35

Method Reference(s): EPA 624.1

Data File: x52568.D



Analytical Report Appendix

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- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
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LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

Rush 2 day Category B Rush 1 day Other Please indicate: 10 Category B Category B Category B	allability contingent upon lab appriday Batch QC	10	8 7	o	,,,	4	ω		1 7/17/2018 /3.00 X Effluent	DATE COLLECTED TIME P R A A B T T E		RFA Monthly Sampling DEQ-98045 Matrix Codes AQ - Aqu NO - Non	PROJECT REFERENCE ATTN:	PHONE: _	- 31	ADDRESS	PARADIGM CLIENT: C
NYSDEC EDD Other EDD please indicate:	Report Supplements oval; additional fees may apply. Basic EDD								+	SAMPLE IDENTIFIER		Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	Dennis Peck	428-6884	Rochester STATE: NY	30 Church Street, Room	City of Rochester
Received By Received @ Lab By 7 17 18	Sampled By								Water 3	X - 3 - 1 A S		WA - Water WG - Groundwater	ATTN:	PHONE	ZIP 14614 CITY:	300B ADDRESS	CLIENT:
Date/Time Date/Time Date/Time Date/Time Date/Time	Steck 7/1 MEN DATE/TIME							\rightarrow	_	624 Site Specific pH	REQUESTED ANALYSIS	DW - Drinking Water WW - Wastewater			STATE:	SS:	
0) 0	17/18 18 1453								624 Site Specific		Sis	SO - Soil SD SL - Sludge PT	<u> </u>	Er	ZIP: QI		
/5:05 P.I.F. /5:05 See additional page for sample conditions.	Total Cost:								cific =VRFA Test Name	REMARKS		SD - Solid WP - Wipe PT - Paint CK - Caulk	peckd@cityofrochester.gov	Email:	Quotation #: PO 18904885	183209	LAB PROJECT ID
									0	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air					



Chain of Custody Supplement

Client: Lab Project ID:	City of Rochester 183209	Completed by:	7/17/18
	Sample Condition Per NELAC/ELAP 210/		1
Condition A	NELAC compliance with the sample co Yes	ndition requirements upo No	n receipt N/A
Container Type Comments			
Transferred to method- compliant container	×		
Headspace (<1 mL) Comments	vo A		
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: C/- neg.		
Holding Time Comments		PH PH	
Temperature Comments	24'C		PH
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

183801

Referencing

RFA Quarterly Sampling

Prepared

Tuesday, September 4, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Sas

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent

Lab Sample ID:183801-01Date Sampled:8/20/2018Matrix:WaterDate Received:8/20/2018

Metals

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
Arsenic	< 0.00500	mg/L		8/22/2018 17:06
Cadmium	< 0.00250	mg/L		8/22/2018 17:06
Chromium	< 0.00500	mg/L		8/22/2018 17:06
Copper	< 0.0100	mg/L		8/22/2018 17:06
Lead	< 0.00500	mg/L		8/22/2018 17:06
Nickel	< 0.0200	mg/L		8/22/2018 17:06
Selenium	< 0.0100	mg/L		8/22/2018 17:06
Zinc	< 0.0300	mg/L		8/22/2018 17:06

Method Reference(s):EPA 200.7Preparation Date:8/21/2018Data File:180822B

Chlorinated Pesticides

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
4,4-DDD	< 0.100	ug/L		8/28/2018 15:33
4,4-DDE	< 0.100	ug/L		8/28/2018 15:33
4,4-DDT	< 0.100	ug/L		8/28/2018 15:33
Aldrin	0.338	ug/L		8/28/2018 15:33
alpha-BHC	< 0.100	ug/L		8/28/2018 15:33
beta-BHC	< 0.100	ug/L		8/28/2018 15:33
cis-Chlordane	< 0.100	ug/L		8/28/2018 15:33
delta-BHC	< 0.100	ug/L		8/28/2018 15:33
Dieldrin	< 0.100	ug/L		8/28/2018 15:33
Endosulfan I	0.193	ug/L		8/28/2018 15:33
Endosulfan II	< 0.100	ug/L		8/28/2018 15:33
Endosulfan Sulfate	< 0.100	ug/L		8/28/2018 15:33
Endrin	< 0.100	ug/L		8/28/2018 15:33
Endrin Aldehyde	< 0.100	ug/L		8/28/2018 15:33
gamma-BHC (Lindane)	< 0.100	ug/L		8/28/2018 15:33
Heptachlor	0.202	ug/L	P	8/28/2018 15:33



8/28/2018

15:33

Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent 183801-01 Lab Sample ID: **Date Sampled:** 8/20/2018 Matrix: Water **Date Received:** 8/20/2018 Heptachlor Epoxide < 0.100 ug/L 8/28/2018 15:33 < 0.100 Methoxychlor ug/L 8/28/2018 15:33 Toxaphene < 1.00 ug/L 8/28/2018 15:33 trans-Chlordane < 0.100 ug/L 8/28/2018 15:33 **Surrogate Percent Recovery** Limits **Outliers Date Analyzed** Decachlorobiphenyl (1) 23.1 - 153 89.0 8/28/2018 15:33

133

Method Reference(s): EPA 608.3
Preparation Date: 8/21/2018

pН

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.32 @ 21.6 C
 S.U.
 8/20/2018 16:30

35.1 - 106

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

Tetrachloro-m-xylene (1)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Anal	yzed
Diethyl phthalate	10.9	ug/L			8/24/2018	00:54
Surrogate	Percen	Percent Recovery		<u>Outliers</u>	Date Analyzed	
2-Fluorobiphenyl	į	55.6	28.7 - 98.8		8/24/2018	00:54
Nitrobenzene-d5	7	77.3	47.4 - 94.5		8/24/2018	00:54
Terphenyl-d14	8	34.7	56.7 - 107		8/24/2018	00:54

Method Reference(s):EPA 625.1EPA 3510CPreparation Date:8/22/2018Data File:B30719.D

Volatile Organics

Analyte	<u>Result</u>	<u>Units</u>	Qualifier	Date Analy	zed
1,1,1-Trichloroethane	< 2.00	ug/L		8/31/2018	12:39
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/31/2018	12:39
1,1,2-Trichloroethane	< 2.00	ug/L		8/31/2018	12:39
1,1-Dichloroethane	3.01	ug/L		8/31/2018	12:39



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent					
Lab Sample ID:	183801-01			Date Sampled:	8/20/2018	
Matrix:	Water			Date Received:	8/20/2018	
1,1-Dichloroethene		< 2.00	ug/L		8/31/2018	12:3
1,2-Dichlorobenzene		< 2.00	ug/L		8/31/2018	12:3
1,2-Dichloroethane		< 2.00	ug/L		8/31/2018	12:
1,2-Dichloropropane		< 2.00	ug/L		8/31/2018	12:
1,3-Dichlorobenzene		< 2.00	ug/L		8/31/2018	12:
1,4-Dichlorobenzene		< 2.00	ug/L		8/31/2018	12:
2-Butanone		10.5	ug/L		8/31/2018	12:
2-Chloroethyl vinyl Ethe	er	< 10.0	ug/L		8/31/2018	12:
4-Methyl-2-pentanone		< 5.00	ug/L		8/31/2018	12:
Acetone		< 10.0	ug/L		8/31/2018	12:
Benzene		< 1.00	ug/L		8/31/2018	12:
Bromodichloromethane		< 2.00	ug/L		8/31/2018	12:
Bromoform		< 5.00	ug/L		8/31/2018	12:
Bromomethane		< 2.00	ug/L		8/31/2018	12:
Carbon Tetrachloride		< 2.00	ug/L		8/31/2018	12:
Chlorobenzene		< 2.00	ug/L		8/31/2018	12:
Chloroethane		< 2.00	ug/L		8/31/2018	12:
Chloroform		< 2.00	ug/L		8/31/2018	12:
Chloromethane		< 2.00	ug/L		8/31/2018	12:
cis-1,3-Dichloropropene	2	< 2.00	ug/L		8/31/2018	12:
Dibromochloromethane		< 2.00	ug/L		8/31/2018	12:
Ethylbenzene		< 2.00	ug/L		8/31/2018	12:
Methylene chloride		< 5.00	ug/L		8/31/2018	12:
Tetrachloroethene		< 2.00	ug/L		8/31/2018	12:
Toluene		< 2.00	ug/L		8/31/2018	12:
trans-1,2-Dichloroethen	e	< 2.00	ug/L		8/31/2018	12:
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		8/31/2018	12:
Trichloroethene		< 2.00	ug/L		8/31/2018	12:
Vinyl chloride		< 2.00	ug/L		8/31/2018	12:



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent

 Lab Sample ID:
 183801-01
 Date Sampled:
 8/20/2018

 Matrix:
 Water
 Date Received:
 8/20/2018

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	107	80.7 - 121		8/31/2018	12:39
4-Bromofluorobenzene	89.6	74.3 - 121		8/31/2018	12:39
Pentafluorobenzene	101	86.2 - 111		8/31/2018	12:39
Toluene-D8	95.3	86.2 - 112		8/31/2018	12:39

Method Reference(s):EPA 624.1Data File:x53709.D



City of Rochester Client:

Project Reference: RFA Quarterly Sampling

Sample Identifier: Influent

Lab Sample ID: **Date Sampled:** 8/20/2018 183801-02

Matrix: Water Date Received: 8/20/2018

Chlorinated Pesticides

Analyte	Result	<u>Units</u>		Qualifier	Date Anal	yzed
4,4-DDD	< 0.100	ug/L			8/28/2018	15:49
4,4-DDE	< 0.100	ug/L			8/28/2018	15:49
4,4-DDT	< 0.100	ug/L			8/28/2018	15:49
Aldrin	0.374	ug/L		P	8/28/2018	15:49
alpha-BHC	< 0.100	ug/L			8/28/2018	15:49
beta-BHC	< 0.100	ug/L			8/28/2018	15:49
cis-Chlordane	< 0.100	ug/L			8/28/2018	15:49
delta-BHC	< 0.100	ug/L			8/28/2018	15:49
Dieldrin	< 0.100	ug/L			8/28/2018	15:49
Endosulfan I	0.240	ug/L			8/28/2018	15:49
Endosulfan II	< 0.100	ug/L			8/28/2018	15:49
Endosulfan Sulfate	< 0.100	ug/L			8/28/2018	15:49
Endrin	< 0.100	ug/L			8/28/2018	15:49
Endrin Aldehyde	< 0.100	ug/L			8/28/2018	15:49
gamma-BHC (Lindane)	< 0.100	ug/L			8/28/2018	15:49
Heptachlor	0.213	ug/L		P	8/28/2018	15:49
Heptachlor Epoxide	< 0.100	ug/L			8/28/2018	15:49
Methoxychlor	< 0.100	ug/L			8/28/2018	15:49
Toxaphene	< 1.00	ug/L			8/28/2018	15:49
trans-Chlordane	< 0.100	ug/L			8/28/2018	15:49
Surrogate	Percen	Recovery	<u>Limits</u>	Outliers	Date Analy	zed
Decachlorobiphenyl (1)	1	109	23.1 - 153		8/28/2018	15:49
Tetrachloro-m-xylene (1)	1	L46	35.1 - 106	*	8/28/2018	15:49

Method Reference(s): EPA 608.3 **Preparation Date:** 8/21/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	453	ug/L		8/31/2018 12:16



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent					
Lab Sample ID:	183801-02			Date Sampled:	8/20/2018	
Matrix:	Water			Date Received:	8/20/2018	
1,1,2,2-Tetrachloroetha	ane	< 200	ug/L		8/31/2018	12:1
1,1,2-Trichloroethane		< 200	ug/L		8/31/2018	12:1
1,1-Dichloroethane		8190	ug/L		8/31/2018	12:1
1,1-Dichloroethene		< 200	ug/L		8/31/2018	12:1
1,2-Dichlorobenzene		< 200	ug/L		8/31/2018	12:1
1,2-Dichloroethane		< 200	ug/L		8/31/2018	12:1
1,2-Dichloropropane		< 200	ug/L		8/31/2018	12:1
1,3-Dichlorobenzene		< 200	ug/L		8/31/2018	12:1
1,4-Dichlorobenzene		< 200	ug/L		8/31/2018	12:1
2-Butanone		< 1000	ug/L		8/31/2018	12:1
2-Chloroethyl vinyl Eth	er	< 1000	ug/L		8/31/2018	12:1
4-Methyl-2-pentanone		< 500	ug/L		8/31/2018	12:1
Acetone		< 1000	ug/L		8/31/2018	12:1
Benzene		< 100	ug/L		8/31/2018	12:1
Bromodichloromethan	e	< 200	ug/L		8/31/2018	12:1
Bromoform		< 500	ug/L		8/31/2018	12:1
Bromomethane		< 200	ug/L		8/31/2018	12:1
Carbon Tetrachloride		< 200	ug/L		8/31/2018	12:1
Chlorobenzene		< 200	ug/L		8/31/2018	12:1
Chloroethane		307	ug/L		8/31/2018	12:1
Chloroform		< 200	ug/L		8/31/2018	12:1
Chloromethane		< 200	ug/L		8/31/2018	12:1
cis-1,3-Dichloropropen	e	< 200	ug/L		8/31/2018	12:1
Dibromochloromethan	e	< 200	ug/L		8/31/2018	12:1
Ethylbenzene		< 200	ug/L		8/31/2018	12:1
Methylene chloride		< 500	ug/L		8/31/2018	12:1
Tetrachloroethene		< 200	ug/L		8/31/2018	12:1
Toluene		< 200	ug/L		8/31/2018	12:1
trans-1,2-Dichloroethe	ne	< 200	ug/L		8/31/2018	12:
trans-1,3-Dichloroprop	ene	< 200	ug/L		8/31/2018	12:
Trichloroethene		< 200	ug/L		8/31/2018	12:1
Vinyl chloride		1520	ug/L		8/31/2018	12.



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Influent

Lab Sample ID: 183801-02 **Date Sampled:** 8/20/2018

Matrix: Water Date Received: 8/20/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analyzed	
1,2-Dichloroethane-d4	108	80.7 - 121		8/31/2018	12:16
4-Bromofluorobenzene	88.9	74.3 - 121		8/31/2018	12:16
Pentafluorobenzene	102	86.2 - 111		8/31/2018	12:16
Toluene-D8	94.3	86.2 - 112		8/31/2018	12:16

Method Reference(s):EPA 624.1Data File:x53708.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

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								8/20/2018	8/20/2018	DATE COLLECTED		RFA Qua	PROJEC		1		The state of the s	D V
								1450	1500	TIME		RFA Quarterly Sampling PO# 19001204	PROJECT REFERENCE				-	DARADIGM
										m wo z z o o		pling	NCE			The same of	Tanana,	N. W
								×	×	מ>מט .								
								Influent	Effluent	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTN: Dennis Peck	PHONE: 428-6884	CITY: Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	77
				-31				Water	Water	х — л ⊣ » ≧ и п ∪ о о		WA - Water WG - Groundwater			ZIP 14614 CITY:			
				Ī				ω	0	TO DEBECZ		ter	ATTN:	PHONE	спу:	ADDRESS:	CLIENT:	
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						5.5		×	×	608 Pesticides	JUE	DW - Drinking Water WW - Wastewater						1
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		As, Cd, C	Metals list:			Diethyl phthalate	SVOA List:	625 Site S	624 Site S			SO - Soil SL - Sludge						
		As, Cd, Cr, Cu, Pb, Ni, Se, Zn	Ħ			thalate	Ħ	625 Site Specific = SMISC	pecific =VF	REMARKS		SD - Solid PT - Paint	peckd@cit	Email:	Quotation #:	18380		
		li, Se, Zn						MISC	624 Site Specific =VRFA Test Name	Vi		WP - Wipe CK - Caulk	peckd@cityofrochester.gov		#: PO 18004885	80)	LAB PROJECT ID	
								رو	0	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air	1		885			

Rush 3 day

Standard 5 day

Batch QC

Basic EDD

Sampled By

0

Date/Time

Total Cost:

Rush 1 day Rush 2 day

> Category B Category A

> > NYSDEC EDD

Date/Time

1605

PIF

8/20/18

1605

please indicate

Other please indicate:

Other EDD please indicate:

Received @ Lab/By

Date/Time

120/18

17 " (8/30/18 16:35

10

10

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Report Supplements



Chain of Custody Supplement

City of Rochester 183801	Completed by: Date:	8/20/18
NELAC compliance with the sample con- Yes	dition requirements upo No	n receipt N/A
X		
		×
✓ Vo A		
VOA Metals		
625 SUOA 608 POST 624 VOA! C/ neg.		
	□X□ PH	
17°		PH metals
	Sample Condition I Per NELAC/ELAP 210/2- NELAC compliance with the sample cond Yes VOA WOA Metals 625 500A 606 905+ 624 VOA! C/ neg.	Date: Sample Condition Requirements



Analytical Report For

City of Rochester

For Lab Project ID

184183

Referencing

RFA Monthly Sampling DEQ-98045

*Prepared**

Wednesday, September 26, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent

Lab Sample ID:184183-01Date Sampled:9/12/2018Matrix:WaterDate Received:9/12/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.25 @ 24.1 C
 S.U.
 9/12/2018 14:20

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L	9/26/2018 12:32	,
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	9/26/2018 12:32	,
1,1,2-Trichloroethane	< 2.00	ug/L	9/26/2018 12:32	
1,1-Dichloroethane	8.09	ug/L	9/26/2018 12:32	
1,1-Dichloroethene	< 2.00	ug/L	9/26/2018 12:32	,
1,2-Dichlorobenzene	< 2.00	ug/L	9/26/2018 12:32	
1,2-Dichloroethane	< 2.00	ug/L	9/26/2018 12:32	,
1,2-Dichloropropane	< 2.00	ug/L	9/26/2018 12:32	
1,3-Dichlorobenzene	< 2.00	ug/L	9/26/2018 12:32	
1,4-Dichlorobenzene	< 2.00	ug/L	9/26/2018 12:32	
2-Butanone	13.6	ug/L	9/26/2018 12:32	
2-Chloroethyl vinyl Ether	< 10.0	ug/L	9/26/2018 12:32	
4-Methyl-2-pentanone	< 5.00	ug/L	9/26/2018 12:32	
Acetone	10.9	ug/L	9/26/2018 12:32	
Benzene	< 1.00	ug/L	9/26/2018 12:32	ı
Bromodichloromethane	< 2.00	ug/L	9/26/2018 12:32	
Bromoform	< 5.00	ug/L	9/26/2018 12:32	
Bromomethane	< 2.00	ug/L	9/26/2018 12:32	
Carbon Tetrachloride	< 2.00	ug/L	9/26/2018 12:32	
Chlorobenzene	< 2.00	ug/L	9/26/2018 12:32	
Chloroethane	< 2.00	ug/L	9/26/2018 12:32	
Chloroform	< 2.00	ug/L	9/26/2018 12:32	
Chloromethane	< 2.00	ug/L	9/26/2018 12:32	



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent						
Lab Sample ID:	184183-01			Dat	e Sampled:	9/12/2018	
Matrix:	Water			Dat	e Received:	9/12/2018	
cis-1,3-Dichloroproper	ie	< 2.00	ug/L			9/26/2018	12:32
Dibromochloromethan	e	< 2.00	ug/L			9/26/2018	12:32
Ethylbenzene		< 2.00	ug/L			9/26/2018	12:32
Methylene chloride		< 5.00	ug/L			9/26/2018	12:32
Tetrachloroethene		< 2.00	ug/L			9/26/2018	12:32
Toluene		< 2.00	ug/L			9/26/2018	12:32
trans-1,2-Dichloroethe	ne	< 2.00	ug/L			9/26/2018	12:32
trans-1,3-Dichloroprop	ene	< 2.00	ug/L			9/26/2018	12:32
Trichloroethene		< 2.00	ug/L			9/26/2018	12:32
Vinyl chloride		< 2.00	ug/L			9/26/2018	12:32
<u>Surrogate</u>		<u>Per</u>	cent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4			110	80.7 - 121		9/26/2018	12:32
4-Bromofluorobenzene	9		76.1	74.3 - 121		9/26/2018	12:32
Pentafluorobenzene			90.1	86.2 - 111		9/26/2018	12:32
Toluene-D8			89.7	86.2 - 112		9/26/2018	12:32

Method Reference(s): EPA 624.1

Data File: x54515.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

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Assignment.

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Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY



PARADIGM	REPORT TO:	INVOICE TO:	ETO:	
THE PROPERTY SERVICES THE	<u> </u>			18178/ 1818/18/
	CITY: Bochester STATE: NY ZIP	ZIP 14614 CITY: STATE	E: ZIP:	Quotation #: PO 18004885
	PHONE: 428-6884	PHONE:		
PROJECT REFERENCE	ATTN: Dennis Peck	ATTN:		peckd@cityofrochester.gov
RFA Monthly Sampling DEQ-98045 PO# 19001204	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	WA - Water WG - Groundwater WW - Wastewater	SO - Soil SL - Sludge	SD - Solid WP - Wipe PT - Paint CK - Caulk
			ALYSIS	
DATE COLLECTED TIME P R O A A B E	SAMPLE IDENTIFIER	X-D-Z WMDOO TO DMBSCZ WDMZ-D-ZOO 624 Site Specific pH		REMARKS
1 9/12/2018 <i>0900</i> X	Effluent	-	624 Site S	624 Site Specific =VRFA Test Name
N				
ω				
4				
O				
6				
7				
8				
9				
10			1900	9/12/18 11:00
Turnaround Time	Report Supplements	7	-	
Availability contingent upon lab approval; additional fees may apply.	oroval; additional fees may apply.	JENNIS TECK	9112118	
Standard 5 day Batch QC	Basic EDD	Sampled By	Date/Time	otal Cost:
Rush 3 day Category A	NYSDEC EDD	Relinguished By	-	
Rush 2 day Category B		e zhelora	9/12/18 1000	ļ
Rush 1 day		regerved by	_	- 0 C
Other X Other Dlease indicate:	Other EDD	Received @ Lab By	Time	-
			See addition	See additional page for sample conditions



Chain of Custody Supplement

Client: Lab Project ID:	City of Rochester 184183	Completed by: Date:	9/12/18
	Sample Condition Per NELAC/ELAP 210		
Condition	NELAC compliance with the sample co	ondition requirements upo No	on receipt N/A
Container Type Commen	ts		
Transferred to method- compliant container			
Headspace (<1 mL) Commen	ts		
Preservation Commen	T V∂ A		
Chlorine Absent (<0.10 ppm per test strip) Commen	ts VOA 624: C1- LC	7	
Holding Time Commen	ts		
Femperature Comment	s 19 * C		TX PH
Sufficient Sample Quantity Comment			



Analytical Report For

City of Rochester

For Lab Project ID

184709

Referencing

RFA Monthly Sampling DEQ-98045

Prepared

Wednesday, October 24, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier: Effluent

 Lab Sample ID:
 184709-01
 Date Sampled:
 10/11/2018

 Matrix:
 Water
 Date Received:
 10/11/2018

<u>pH</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.33 @ 22.9 C
 S.U.
 10/11/2018 14:40

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

Analyte	Result	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	10/23/2018 16:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	10/23/2018 16:35
1,1,2-Trichloroethane	< 2.00	ug/L	10/23/2018 16:35
1,1-Dichloroethane	4.77	ug/L	10/23/2018 16:35
1,1-Dichloroethene	< 2.00	ug/L	10/23/2018 16:35
1,2-Dichlorobenzene	< 2.00	ug/L	10/23/2018 16:35
1,2-Dichloroethane	< 2.00	ug/L	10/23/2018 16:35
1,2-Dichloropropane	< 2.00	ug/L	10/23/2018 16:35
1,3-Dichlorobenzene	< 2.00	ug/L	10/23/2018 16:35
1,4-Dichlorobenzene	< 2.00	ug/L	10/23/2018 16:35
2-Butanone	< 10.0	ug/L	10/23/2018 16:35
2-Chloroethyl vinyl Ether	< 10.0	ug/L	10/23/2018 16:35
4-Methyl-2-pentanone	< 5.00	ug/L	10/23/2018 16:35
Acetone	< 10.0	ug/L	10/23/2018 16:35
Benzene	< 1.00	ug/L	10/23/2018 16:35
Bromodichloromethane	< 2.00	ug/L	10/23/2018 16:35
Bromoform	< 5.00	ug/L	10/23/2018 16:35
Bromomethane	< 2.00	ug/L	10/23/2018 16:35
Carbon Tetrachloride	< 2.00	ug/L	10/23/2018 16:35
Chlorobenzene	< 2.00	ug/L	10/23/2018 16:35
Chloroethane	< 2.00	ug/L	10/23/2018 16:35
Chloroform	< 2.00	ug/L	10/23/2018 16:35
Chloromethane	< 2.00	ug/L	10/23/2018 16:35



Client: City of Rochester

Project Reference: RFA Monthly Sampling DEQ-98045

Sample Identifier:	Effluent						
Lab Sample ID:	184709-01			Dat	e Sampled:	10/11/2018	3
Matrix:	Water			Dat	e Received:	10/11/2018	3
cis-1,3-Dichloroproper	ie	< 2.00	ug/L			10/23/2018	16:35
Dibromochloromethan	e	< 2.00	ug/L			10/23/2018	16:35
Ethylbenzene		< 2.00	ug/L			10/23/2018	16:35
Methylene chloride		< 5.00	ug/L			10/23/2018	16:35
Tetrachloroethene		< 2.00	ug/L			10/23/2018	16:35
Toluene		< 2.00	ug/L			10/23/2018	16:35
trans-1,2-Dichloroethe	ne	< 2.00	ug/L			10/23/2018	16:35
trans-1,3-Dichloroprop	ene	< 2.00	ug/L			10/23/2018	16:35
Trichloroethene		< 2.00	ug/L			10/23/2018	16:35
Vinyl chloride		< 2.00	ug/L			10/23/2018	16:35
<u>Surrogate</u>		<u>Per</u>	cent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4			87.5	86.4 - 119		10/23/2018	16:35
4-Bromofluorobenzene			92.7	76 - 118		10/23/2018	16:35
Pentafluorobenzene			102	87 - 112		10/23/2018	16:35
Toluene-D8			94.7	88.4 - 111		10/23/2018	16:35

Method Reference(s): EPA 624.1

Data File: x55911.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

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- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.

 "(1)" = Indicates data from primary solven used for OC calculation.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

Page 6 of 7

701

ions.	See additional page for sample conditions.	See addition		,	(
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Chain of Custody Supplement

Client: Lab Project ID:	City of Rochester	Completed by:	10/11/18
	Sample Condition Per NELAC/ELAP 210/2	241/242/243/244	
A Condition	NELAC compliance with the sample con Yes	ndition requirements upo No	n receipt N/A
Container Type Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments	X VOA		
Preservation Comments	LX VOA		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: C/- M	ey,	
Holding Time Comments		CC PH	
Temperature Comments	18°C		TT PH
Sufficient Sample Quantity Comments			
	U 		



Analytical Report For

City of Rochester

For Lab Project ID

185444

Referencing

RFA Quarterly Sampling

Prepared

Thursday, December 6, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent

 Lab Sample ID:
 185444-01
 Date Sampled:
 11/20/2018

 Matrix:
 Water
 Date Received:
 11/20/2018

Metals

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
Arsenic	0.00523	mg/L		11/26/2018 11:58
Cadmium	< 0.00250	mg/L		11/26/2018 11:58
Chromium	< 0.00500	mg/L		11/26/2018 11:58
Copper	< 0.0100	mg/L		11/26/2018 11:58
Lead	< 0.00500	mg/L		11/26/2018 11:58
Nickel	< 0.0200	mg/L		11/26/2018 11:58
Selenium	< 0.0100	mg/L		11/26/2018 11:58
Zinc	< 0.0300	mg/L		11/26/2018 11:58

Method Reference(s): EPA 200.7 Rev 4.4 (1994)

Preparation Date: 11/21/2018 Data File: 181126A

Chlorinated Pesticides

Analyte	Result	<u>Units</u>	Qualifier	Date Analy	yzed
4,4-DDD	< 0.200	ug/L		12/3/2018	16:01
4,4-DDE	< 0.200	ug/L		12/3/2018	16:01
4,4-DDT	< 0.300	ug/L		12/3/2018	16:01
Aldrin	< 0.200	ug/L		12/3/2018	16:01
alpha-BHC	< 0.200	ug/L		12/3/2018	16:01
beta-BHC	< 0.200	ug/L		12/3/2018	16:01
cis-Chlordane	< 0.200	ug/L		12/3/2018	16:01
delta-BHC	< 0.200	ug/L		12/3/2018	16:01
Dieldrin	< 0.200	ug/L		12/3/2018	16:01
Endosulfan I	< 0.200	ug/L		12/3/2018	16:01
Endosulfan II	< 0.200	ug/L		12/3/2018	16:01
Endosulfan Sulfate	< 0.200	ug/L		12/3/2018	16:01
Endrin	< 0.200	ug/L		12/3/2018	16:01
Endrin Aldehyde	< 0.300	ug/L		12/3/2018	16:01
gamma-BHC (Lindane)	< 0.200	ug/L		12/3/2018	16:01
Heptachlor	< 0.200	ug/L		12/3/2018	16:01



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier:EffluentLab Sample ID:185444-01Date Sampled:11/20/2018Matrix:WaterDate Received:11/20/2018

Heptachlor Epoxide < 0.200 ug/L 12/3/2018 16:01 < 0.200 Methoxychlor ug/L 12/3/2018 16:01 Toxaphene < 2.00 ug/L 12/3/2018 16:01 trans-Chlordane < 0.200 ug/L 12/3/2018 16:01 **Surrogate Percent Recovery** Limits **Outliers Date Analyzed** Decachlorobiphenyl (1) 16 - 171 88.6 12/3/2018 16:01 42.6 - 114 Tetrachloro-m-xylene (1) 164 12/3/2018 16:01

Method Reference(s): EPA 608.3 Preparation Date: 11/26/2018

pН

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.21 @ 17.9 C
 S.U.
 11/20/2018 14:17

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Semi-Volatile Organics

<u>Analyte</u>	<u>Result</u>	Result Units		Qualifier	Date Analyzed	
Diethyl phthalate	16.1	ug/L			11/22/2018	04:27
Surrogate	Percen	Percent Recovery		Outliers	Date Analyzed	
2-Fluorobiphenyl	ţ	52.8	34.3 - 96.8		11/22/2018	04:27
Nitrobenzene-d5	(64.1	47.8 - 101		11/22/2018	04:27
Terphenyl-d14	7	73.8	51.9 - 117		11/22/2018	04:27

Method Reference(s):EPA 625.1EPA 3510CEPA 3510CPreparation Date:11/21/2018Data File:B33617.D

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/3/2018 19:10
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/3/2018 19:10
1,1,2-Trichloroethane	< 2.00	ug/L		12/3/2018 19:10
1,1-Dichloroethane	9.42	ug/L		12/3/2018 19:10



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Effluent				
Lab Sample ID:	185444-01			Date Sampled:	11/20/2018
Matrix:	Water			Date Received:	11/20/2018
1,1-Dichloroethene		< 2.00	ug/L		12/3/2018 19:
1,2-Dichlorobenzene		< 2.00	ug/L		12/3/2018 19:
1,2-Dichloroethane		< 2.00	ug/L		12/3/2018 19:
1,2-Dichloropropane		< 2.00	ug/L		12/3/2018 19:
1,3-Dichlorobenzene		< 2.00	ug/L		12/3/2018 19:
1,4-Dichlorobenzene		< 2.00	ug/L		12/3/2018 19
2-Butanone		13.4	ug/L		12/3/2018 19
2-Chloroethyl vinyl Ethe	er	< 10.0	ug/L		12/3/2018 19
4-Methyl-2-pentanone		< 5.00	ug/L		12/3/2018 19
Acetone		< 10.0	ug/L		12/3/2018 19
Benzene		< 1.00	ug/L		12/3/2018 19
Bromodichloromethane		< 2.00	ug/L		12/3/2018 19
Bromoform		< 5.00	ug/L		12/3/2018 19
Bromomethane		< 2.00	ug/L		12/3/2018 19
Carbon Tetrachloride		< 2.00	ug/L		12/3/2018 19
Chlorobenzene		< 2.00	ug/L		12/3/2018 19
Chloroethane		< 2.00	ug/L		12/3/2018 19
Chloroform		< 2.00	ug/L		12/3/2018 19
Chloromethane		< 2.00	ug/L		12/3/2018 19
cis-1,3-Dichloropropene	•	< 2.00	ug/L		12/3/2018 19
Dibromochloromethane		< 2.00	ug/L		12/3/2018 19
Ethylbenzene		< 2.00	ug/L		12/3/2018 19
Methylene chloride		< 5.00	ug/L		12/3/2018 19
Tetrachloroethene		< 2.00	ug/L		12/3/2018 19
Toluene		< 2.00	ug/L		12/3/2018 19
trans-1,2-Dichloroethen	e	< 2.00	ug/L		12/3/2018 19
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		12/3/2018 19
Trichloroethene		< 2.00	ug/L		12/3/2018 19
Vinyl chloride		< 2.00	ug/L		12/3/2018 19

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Effluent

Lab Sample ID:185444-01Date Sampled:11/20/2018Matrix:WaterDate Received:11/20/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	79.1	86.4 - 119	*	12/3/2018	19:10
4-Bromofluorobenzene	90.5	76 - 118		12/3/2018	19:10
Pentafluorobenzene	101	87 - 112		12/3/2018	19:10
Toluene-D8	98.1	88.4 - 111		12/3/2018	19:10

Method Reference(s):EPA 624.1Data File:x57145.D



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Influent

 Lab Sample ID:
 185444-02
 Date Sampled:
 11/20/2018

 Matrix:
 Water
 Date Received:
 11/20/2018

Chlorinated Pesticides

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date Analy	yzed
4,4-DDD	< 0.200	ug/L			12/3/2018	16:16
4,4-DDE	0.236	ug/L			12/3/2018	16:16
4,4-DDT	< 0.300	ug/L			12/3/2018	16:16
Aldrin	< 0.200	ug/L			12/3/2018	16:16
alpha-BHC	< 0.200	ug/L			12/3/2018	16:16
beta-BHC	< 0.200	ug/L			12/3/2018	16:16
cis-Chlordane	< 0.200	ug/L			12/3/2018	16:16
delta-BHC	< 0.200	ug/L			12/3/2018	16:16
Dieldrin	< 0.200	ug/L			12/3/2018	16:16
Endosulfan I	< 0.200	ug/L			12/3/2018	16:16
Endosulfan II	< 0.200	ug/L			12/3/2018	16:16
Endosulfan Sulfate	< 0.200	ug/L			12/3/2018	16:16
Endrin	< 0.200	ug/L			12/3/2018	16:16
Endrin Aldehyde	< 0.300	ug/L			12/3/2018	16:16
gamma-BHC (Lindane)	< 0.200	ug/L			12/3/2018	16:16
Heptachlor	< 0.200	ug/L			12/3/2018	16:16
Heptachlor Epoxide	< 0.200	ug/L			12/3/2018	16:16
Methoxychlor	< 0.200	ug/L			12/3/2018	16:16
Toxaphene	< 2.00	ug/L			12/3/2018	16:16
trans-Chlordane	< 0.200	ug/L			12/3/2018	16:16
<u>Surrogate</u>	Perc	ent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
Decachlorobiphenyl (1)		51.2	16 - 171		12/3/2018	16:16
Tetrachloro-m-xylene (1)		134	42.6 - 114	*	12/3/2018	16:16

Method Reference(s): EPA 608.3
Preparation Date: 11/26/2018

Volatile Organics

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	1610	ug/L		12/3/2018 19:32



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier:	Influent				
Lab Sample ID:	185444-02			Date Sampled:	11/20/2018
Matrix:	Water			Date Received:	11/20/2018
1,1,2,2-Tetrachloroetha	ane	< 200	ug/L		12/3/2018 19:
1,1,2-Trichloroethane		< 200	ug/L		12/3/2018 19:
1,1-Dichloroethane		6820	ug/L		12/3/2018 19:
1,1-Dichloroethene		200	ug/L		12/3/2018 19:
1,2-Dichlorobenzene		< 200	ug/L		12/3/2018 19:
1,2-Dichloroethane		< 200	ug/L		12/3/2018 19:
1,2-Dichloropropane		< 200	ug/L		12/3/2018 19
1,3-Dichlorobenzene		< 200	ug/L		12/3/2018 19
1,4-Dichlorobenzene		< 200	ug/L		12/3/2018 19
2-Butanone		< 1000	ug/L		12/3/2018 19
2-Chloroethyl vinyl Eth	er	< 1000	ug/L		12/3/2018 19
4-Methyl-2-pentanone		< 500	ug/L		12/3/2018 19
Acetone		< 1000	ug/L		12/3/2018 19
Benzene		< 100	ug/L		12/3/2018 19
Bromodichloromethan	e	< 200	ug/L		12/3/2018 19
Bromoform		< 500	ug/L		12/3/2018 19
Bromomethane		< 200	ug/L		12/3/2018 19
Carbon Tetrachloride		< 200	ug/L		12/3/2018 19
Chlorobenzene		< 200	ug/L		12/3/2018 19
Chloroethane		290	ug/L		12/3/2018 19
Chloroform		< 200	ug/L		12/3/2018 19
Chloromethane		< 200	ug/L		12/3/2018 19
cis-1,3-Dichloropropen	e	< 200	ug/L		12/3/2018 19
Dibromochloromethan	e	< 200	ug/L		12/3/2018 19
Ethylbenzene		< 200	ug/L		12/3/2018 19
Methylene chloride		< 500	ug/L		12/3/2018 19
Tetrachloroethene		< 200	ug/L		12/3/2018 19
Toluene		201	ug/L		12/3/2018 19
trans-1,2-Dichloroethe	ne	< 200	ug/L		12/3/2018 19
trans-1,3-Dichloroprop	ene	< 200	ug/L		12/3/2018 19
Trichloroethene		< 200	ug/L		12/3/2018 19
Vinyl chloride		1250	ug/L		12/3/2018 19



Client: <u>City of Rochester</u>

Project Reference: RFA Quarterly Sampling

Sample Identifier: Influent

 Lab Sample ID:
 185444-02
 Date Sampled:
 11/20/2018

 Matrix:
 Water
 Date Received:
 11/20/2018

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	77.2	86.4 - 119	*	12/3/2018	19:32
4-Bromofluorobenzene	87.6	76 - 118		12/3/2018	19:32
Pentafluorobenzene	101	87 - 112		12/3/2018	19:32
Toluene-D8	95.5	88.4 - 111		12/3/2018	19:32

Method Reference(s):EPA 624.1Data File:x57146.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

PARADIGM	.X	7	REPORT TO: City of Rochester	CITAIN OF	INVOICE TO:	8		LAB PROJECT ID	e 11 of 12
	1		ADDRESS: 30 Church Street, Room	300B ZIP 14614	ADDRESS: CITY: STATE:	ZIP:	Quotation #:	S 4 4 4 1 18004885	
(PHONE: 428-6884	PHC	PHONE:		Email: peck	Email: peckd@cityofrochester.gov	ester.gov
PROJECT REFERENCE	RENCE		ATTN: Dennis Peck	ATTN:	N:		Cc: Alexand	lra.Zobel@city	Cc: Alexandra.Zobel@cityofrochester.gov
RFA Quarterly Sampling PO# 19001204	ampling 204		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	WA - Water WG - Groundwater	DW - Drinking Water WW - Wastewater	SO - Soil SL - Sludge	SD - Solid PT - Paint	WP - Wipe CK - Caulk	OL - Oil AR - Air
			-		REQUESTED ANALYSIS	SIS			
DATE COLLECTED COLLECTED	002500-Fm	o z z o	SAMPLE IDENTIFIER	X - D - D - S - C - Z - D - D - D - D - D - D - D - D - D	624 Site Specific 625 Site Specific 608 Pesticides Metals* Hwy pH		REMARKS		PARADIGM LAB SAMPLE NUMBER
1 11/20/2018 //50		×	Effluent	Water	×	624 Site	624 Site Specific =VRFA Test Name	A Test Name	0
2 11/20/2018 //30		×	Influent		3 X X	625 Site	625 Site Specific = SMISC	SC	0
ω						SVOA List:	.ist:		
4						Diethyl I	Diethyl phthalate		
O									
6	-								
7						Metals list:	list:		
8						As, Cd,	As, Cd, Cr, Cu, Pb, Ni, Se, Zn	Se, Zn	
9						These	Presend in/ HI	HNOS	
10								,	
Turnaround Time			Report Supplements	1	1 MC	1	3		
Availability conting	jent upon l	ab appi	Availability contingent upon lab approval; additional fees may apply.	Hexand	a E. Martino	11/20/18 0	11/11/11/11		
Standard 5 day	Batch QC	õ	Basic EDD	Sampled By	Martina 11/2	Date/Time	735	Total Cost:	
Rush 3 day	Category A	Jy A	NYSDEC EDD	Relinquished By	Dat		1	Í	
Rush 2 day	Category B	Ŋ B		Jane	J. Palata 11	18	123		
Rush 1 day				Reserved by	Jan Jan	/30 //8 /2	7.44	7.17	
Other X	Other		Other EDD	Received @ Lab By		me		T	
10				7 cred si	Started on Field 11	11/20/18 13	13:05		



Chain of Custody Supplement

Client:	City of Rochester	Completed by:	Glenn rezzulo
Lab Project ID:	185444	Date:	11/20/18
	Sample Condition I Per NELAC/ELAP 210/24	Requirements 41/242/243/244	
<i>l</i> Condition	NELAC compliance with the sample cond Yes	dition requirements upo No	on receipt N/A
Container Type			
Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments	VOA		
Preservation Comments	HNO3 added to Metals	X metals s sample in	lab to pH 12
Chlorine Absent (<0.10 ppm per test strip) Comments	GLY VOA! CITNED.		
Holding Time Comments		P(-1	
Temperature Comments	7 °C iced started ;	o Feld	X potals
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

185702

Referencing

RFA Monthly Sampling DEQ - 98045

Prepared

Monday, December 17, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ - 98045

Sample Identifier: Effluent

 Lab Sample ID:
 185702-01
 Date Sampled:
 12/10/2018

 Matrix:
 Water
 Date Received:
 12/10/2018

<u>рН</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.22 @ 20.6 C
 S.U.
 12/10/2018 15:21

Method Reference(s): SM22 4500 H+ B

ELAP does not offer this test for approval as part of their laboratory certification program.

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	12/11/2018 17:17
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	12/11/2018 17:17
1,1,2-Trichloroethane	< 2.00	ug/L	12/11/2018 17:17
1,1-Dichloroethane	13.1	ug/L	12/11/2018 17:17
1,1-Dichloroethene	< 2.00	ug/L	12/11/2018 17:17
1,2-Dichlorobenzene	< 2.00	ug/L	12/11/2018 17:17
1,2-Dichloroethane	< 2.00	ug/L	12/11/2018 17:17
1,2-Dichloropropane	< 2.00	ug/L	12/11/2018 17:17
1,3-Dichlorobenzene	< 2.00	ug/L	12/11/2018 17:17
1,4-Dichlorobenzene	< 2.00	ug/L	12/11/2018 17:17
2-Butanone	14.8	ug/L	12/11/2018 17:17
2-Chloroethyl vinyl Ether	< 10.0	ug/L	12/11/2018 17:17
4-Methyl-2-pentanone	< 5.00	ug/L	12/11/2018 17:17
Acetone	< 10.0	ug/L	12/11/2018 17:17
Benzene	< 1.00	ug/L	12/11/2018 17:17
Bromodichloromethane	< 2.00	ug/L	12/11/2018 17:17
Bromoform	< 5.00	ug/L	12/11/2018 17:17
Bromomethane	< 2.00	ug/L	12/11/2018 17:17
Carbon Tetrachloride	< 2.00	ug/L	12/11/2018 17:17
Chlorobenzene	< 2.00	ug/L	12/11/2018 17:17
Chloroethane	< 2.00	ug/L	12/11/2018 17:17
Chloroform	< 2.00	ug/L	12/11/2018 17:17
Chloromethane	< 2.00	ug/L	12/11/2018 17:17



Client: <u>City of Rochester</u>

Project Reference: RFA Monthly Sampling DEQ - 98045

Sample Identifier:	Effluent						
Lab Sample ID:	185702-01			Dat	e Sampled:	12/10/2018	3
Matrix:	Water			Dat	e Received:	12/10/2018	3
cis-1,3-Dichloroproper	ie	< 2.00	ug/L			12/11/2018	17:17
Dibromochloromethan	e	< 2.00	ug/L			12/11/2018	17:17
Ethylbenzene		< 2.00	ug/L			12/11/2018	17:17
Methylene chloride		< 5.00	ug/L			12/11/2018	17:17
Tetrachloroethene		< 2.00	ug/L			12/11/2018	17:17
Toluene		< 2.00	ug/L			12/11/2018	17:17
trans-1,2-Dichloroethe	ene	< 2.00	ug/L			12/11/2018	17:17
trans-1,3-Dichloroprop	oene	< 2.00	ug/L			12/11/2018	17:17
Trichloroethene		< 2.00	ug/L			12/11/2018	17:17
Vinyl chloride		< 2.00	ug/L			12/11/2018	17:17
<u>Surrogate</u>		<u>Per</u>	cent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4			104	86.4 - 119		12/11/2018	17:17
4-Bromofluorobenzene	e		82.3	76 - 118		12/11/2018	17:17
Pentafluorobenzene			103	87 - 112		12/11/2018	17:17
Toluene-D8			95.0	88.4 - 111		12/11/2018	17:17

Method Reference(s): EPA 624.1

Data File: x57404.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
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environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

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Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.



CHAIN OF CUSTODY

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Rush 1 day	Rush 2 day	Rush 3 day	Standard 5 day	Turnaround Time Availability contin	10	9	8	7	o	SI	4	ω		12/10/2018	DATE COLLECTED COL		RFA Monthly Sampling DEQ-98045 PO# 19001204	PROJECT REFERENCE					U > U >
Other	Cat	Cat	Bate	me Intingent upo									00	205	TIME O COLLECTED S I		ipling DEC 001204	EFERENC	1			0 10	1 2 2 2
Other	Category B	Category A	Batch QC	on lab ap	-								,	<	ω>nο)-98045	m					
Other EDD		NYSDEC EDD	Basic EDD	naround Time Report Supplements Availability contingent upon lab approval; additional fees may apply.										Effluent	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTN: Dennis Peck	PHONE: 428-6884	CITY: Rochester STATE: NY	ADDRESS: 30 Church Street, Room 300B	CLIENT: City of Rochester	REPORT TO:
Received @ Lab By	Received By	Relinquished B	Sampled By	1										10/2424	×-□-1>≧	-	WA - Water WG - Groundwater			ZIP 14614	n 300B		
Lab By	20	d By												3			water	ATTN:	PHONE:	14 CITY:	ADDRESS:	CLIENT:	
	0	11000	Ja	21										<	624 Site Specific				, m		ESS:	7	
	1001	1	M	X									- 3	X	pH	REQUES	DW - Drinking Water WW - Wastewater						
	17			1													nking Wa						INVO
12 / Dat	Date	Dat	Dat	0												TED ANALYSIS	ater 'r			STATE:			INVOICE TO:
//o// § Date/Time	Time	Date/Time	Date/Time	2/0												SIS	SD -			2			ř
87)	18	1418	1111	A.										624		-	SO - Soil SL - Sludge			ZIP:			
15:03	1418													Site Specific =VRFA	REMARKS		SD - Solid PT - Paint	peckd@cit	Email:	Quotation #:	18		
	P.I.F.	Г	Total Cost:											RFA Test Name	õ		WP - Wipe CK - Caulk	peckd@cityofrochester.gov) #: PO 18004885	570a	LAB PROJECT ID	
													1	0)	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air) <u>/</u>				J	



Chain of Custody Supplement

Client:	City at Rochester	Completed by:	Glenn Pezzulo
Lab Project ID:	「18570み Sample Condition R	Date:	12 /10 /18
	Per NELAC/ELAP 210/24	1/242/243/244	
Condition	NELAC compliance with the sample cond Yes	ition requirements upo No	n receipt N/A
Container Type	X		
Comments	-		
Transferred to method- compliant container			
Headspace (<1 mL) Comments	VoA		
Preservation Comments	X VOA		
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624: C1-14g.		
Holding Time Comments		T PH	
Temperature Comments			EX PH
Sufficient Sample Quantity Comments			



Analytical Report For

City of Rochester

For Lab Project ID

185900

Referencing

RFA Semi-Annual GW Sampling DEQ-98045

Prepared

Wednesday, January 2, 2019

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 6I

 Lab Sample ID:
 185900-01
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

Analyte	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	12/27/2018 17:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	12/27/2018 17:27
1,1,2-Trichloroethane	< 2.00	ug/L	12/27/2018 17:27
1,1-Dichloroethane	< 2.00	ug/L	12/27/2018 17:27
1,1-Dichloroethene	< 2.00	ug/L	12/27/2018 17:27
1,2-Dichlorobenzene	< 2.00	ug/L	12/27/2018 17:27
1,2-Dichloroethane	< 2.00	ug/L	12/27/2018 17:27
1,2-Dichloropropane	< 2.00	ug/L	12/27/2018 17:27
1,3-Dichlorobenzene	< 2.00	ug/L	12/27/2018 17:27
1,4-Dichlorobenzene	< 2.00	ug/L	12/27/2018 17:27
2-Chloroethyl vinyl Ether	< 10.0	ug/L	12/27/2018 17:27
Benzene	< 1.00	ug/L	12/27/2018 17:27
Bromodichloromethane	< 2.00	ug/L	12/27/2018 17:27
Bromoform	< 5.00	ug/L	12/27/2018 17:27
Bromomethane	< 2.00	ug/L	12/27/2018 17:27
Carbon Tetrachloride	< 2.00	ug/L	12/27/2018 17:27
Chlorobenzene	< 2.00	ug/L	12/27/2018 17:27
Chloroethane	< 2.00	ug/L	12/27/2018 17:27
Chloroform	< 2.00	ug/L	12/27/2018 17:27
Chloromethane	< 2.00	ug/L	12/27/2018 17:27
cis-1,3-Dichloropropene	< 2.00	ug/L	12/27/2018 17:27
Dibromochloromethane	< 2.00	ug/L	12/27/2018 17:27
Ethylbenzene	< 2.00	ug/L	12/27/2018 17:27
Methyl tert-butyl Ether	< 2.00	ug/L	12/27/2018 17:27
Methylene chloride	< 5.00	ug/L	12/27/2018 17:27
Tetrachloroethene	< 2.00	ug/L	12/27/2018 17:27
Toluene	< 2.00	ug/L	12/27/2018 17:27
trans-1,2-Dichloroethene	< 2.00	ug/L	12/27/2018 17:27
trans-1,3-Dichloropropene	< 2.00	ug/L	12/27/2018 17:27



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 6I

 Lab Sample ID:
 185900-01
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 12/27/2018 17:27

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 12/27/2018 17:27

 Vinyl chloride
 4.57
 ug/L
 12/27/2018 17:27

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 95.1 86.4 - 119 12/27/2018 17:27 4-Bromofluorobenzene 80.4 76 - 118 12/27/2018 17:27 Pentafluorobenzene 87 - 112 94.7 12/27/2018 17:27 Toluene-D8 89.8 88.4 - 111 12/27/2018 17:27

Method Reference(s):EPA 624.1Data File:x57752.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7I

 Lab Sample ID:
 185900-02
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	129	ug/L		12/27/2018 16:42
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		12/27/2018 16:42
1,1,2-Trichloroethane	< 10.0	ug/L		12/27/2018 16:42
1,1-Dichloroethane	191	ug/L		12/27/2018 16:42
1,1-Dichloroethene	15.2	ug/L		12/27/2018 16:42
1,2-Dichlorobenzene	< 10.0	ug/L		12/27/2018 16:42
1,2-Dichloroethane	< 10.0	ug/L		12/27/2018 16:42
1,2-Dichloropropane	< 10.0	ug/L		12/27/2018 16:42
1,3-Dichlorobenzene	< 10.0	ug/L		12/27/2018 16:42
1,4-Dichlorobenzene	< 10.0	ug/L		12/27/2018 16:42
2-Chloroethyl vinyl Ether	< 50.0	ug/L		12/27/2018 16:42
Benzene	< 5.00	ug/L		12/27/2018 16:42
Bromodichloromethane	< 10.0	ug/L		12/27/2018 16:42
Bromoform	< 25.0	ug/L		12/27/2018 16:42
Bromomethane	< 10.0	ug/L		12/27/2018 16:42
Carbon Tetrachloride	< 10.0	ug/L		12/27/2018 16:42
Chlorobenzene	< 10.0	ug/L		12/27/2018 16:42
Chloroethane	< 10.0	ug/L		12/27/2018 16:42
Chloroform	< 10.0	ug/L		12/27/2018 16:42
Chloromethane	< 10.0	ug/L		12/27/2018 16:42
cis-1,3-Dichloropropene	< 10.0	ug/L		12/27/2018 16:42
Dibromochloromethane	< 10.0	ug/L		12/27/2018 16:42
Ethylbenzene	< 10.0	ug/L		12/27/2018 16:42
Methyl tert-butyl Ether	< 10.0	ug/L		12/27/2018 16:42
Methylene chloride	< 25.0	ug/L		12/27/2018 16:42
Tetrachloroethene	< 10.0	ug/L		12/27/2018 16:42
Toluene	< 10.0	ug/L		12/27/2018 16:42
trans-1,2-Dichloroethene	< 10.0	ug/L		12/27/2018 16:42
trans-1,3-Dichloropropene	< 10.0	ug/L		12/27/2018 16:42



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7I

 Lab Sample ID:
 185900-02
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

 Trichloroethene
 < 10.0</td>
 ug/L
 12/27/2018 16:42

 Trichlorofluoromethane
 < 10.0</td>
 ug/L
 12/27/2018 16:42

 Vinyl chloride
 96.2
 ug/L
 12/27/2018 16:42

Surrogate Percent Recovery Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 90.7 86.4 - 119 12/27/2018 16:42 4-Bromofluorobenzene 76 - 118 84.5 12/27/2018 16:42 Pentafluorobenzene 102 87 - 112 16:42 12/27/2018 Toluene-D8 90.6 88.4 - 111 16:42 12/27/2018

Method Reference(s):EPA 624.1Data File:x57750.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7S

 Lab Sample ID:
 185900-03
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

Analyte	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	279	ug/L	12/28/2018 14:27
1,1,2,2-Tetrachloroethane	< 4.00	ug/L	12/28/2018 14:27
1,1,2-Trichloroethane	< 4.00	ug/L	12/28/2018 14:27
1,1-Dichloroethane	206	ug/L	12/28/2018 14:27
1,1-Dichloroethene	< 4.00	ug/L	12/28/2018 14:27
1,2-Dichlorobenzene	< 4.00	ug/L	12/28/2018 14:27
1,2-Dichloroethane	< 4.00	ug/L	12/28/2018 14:27
1,2-Dichloropropane	< 4.00	ug/L	12/28/2018 14:27
1,3-Dichlorobenzene	< 4.00	ug/L	12/28/2018 14:27
1,4-Dichlorobenzene	< 4.00	ug/L	12/28/2018 14:27
2-Chloroethyl vinyl Ether	< 20.0	ug/L	12/28/2018 14:27
Benzene	< 2.00	ug/L	12/28/2018 14:27
Bromodichloromethane	< 4.00	ug/L	12/28/2018 14:27
Bromoform	< 10.0	ug/L	12/28/2018 14:27
Bromomethane	< 4.00	ug/L	12/28/2018 14:27
Carbon Tetrachloride	< 4.00	ug/L	12/28/2018 14:27
Chlorobenzene	< 4.00	ug/L	12/28/2018 14:27
Chloroethane	5.82	ug/L	12/28/2018 14:27
Chloroform	< 4.00	ug/L	12/28/2018 14:27
Chloromethane	< 4.00	ug/L	12/28/2018 14:27
cis-1,3-Dichloropropene	< 4.00	ug/L	12/28/2018 14:27
Dibromochloromethane	< 4.00	ug/L	12/28/2018 14:27
Ethylbenzene	< 4.00	ug/L	12/28/2018 14:27
Methyl tert-butyl Ether	< 4.00	ug/L	12/28/2018 14:27
Methylene chloride	< 10.0	ug/L	12/28/2018 14:27
Tetrachloroethene	< 4.00	ug/L	12/28/2018 14:27
Toluene	< 4.00	ug/L	12/28/2018 14:27
trans-1,2-Dichloroethene	< 4.00	ug/L	12/28/2018 14:27
trans-1,3-Dichloropropene	< 4.00	ug/L	12/28/2018 14:27



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 7S

 Lab Sample ID:
 185900-03
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

 Trichloroethene
 6.92
 ug/L
 12/28/2018
 14:27

 Trichlorofluoromethane
 < 4.00</td>
 ug/L
 12/28/2018
 14:27

 Vinyl chloride
 < 4.00</td>
 ug/L
 12/28/2018
 14:27

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4	104	86.4 - 119		12/28/2018	14:27
4-Bromofluorobenzene	80.5	76 - 118		12/28/2018	14:27
Pentafluorobenzene	100	87 - 112		12/28/2018	14:27
Toluene-D8	88.9	884 - 111		12/28/2018	14.27

Method Reference(s):EPA 624.1Data File:x57778.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 8I

 Lab Sample ID:
 185900-04
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		12/28/2018 14:50
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		12/28/2018 14:50
1,1,2-Trichloroethane	< 10.0	ug/L		12/28/2018 14:50
1,1-Dichloroethane	< 10.0	ug/L		12/28/2018 14:50
1,1-Dichloroethene	< 10.0	ug/L		12/28/2018 14:50
1,2-Dichlorobenzene	< 10.0	ug/L		12/28/2018 14:50
1,2-Dichloroethane	< 10.0	ug/L		12/28/2018 14:50
1,2-Dichloropropane	< 10.0	ug/L		12/28/2018 14:50
1,3-Dichlorobenzene	< 10.0	ug/L		12/28/2018 14:50
1,4-Dichlorobenzene	< 10.0	ug/L		12/28/2018 14:50
2-Chloroethyl vinyl Ether	< 50.0	ug/L		12/28/2018 14:50
Benzene	< 5.00	ug/L		12/28/2018 14:50
Bromodichloromethane	< 10.0	ug/L		12/28/2018 14:50
Bromoform	< 25.0	ug/L		12/28/2018 14:50
Bromomethane	< 10.0	ug/L		12/28/2018 14:50
Carbon Tetrachloride	< 10.0	ug/L		12/28/2018 14:50
Chlorobenzene	< 10.0	ug/L		12/28/2018 14:50
Chloroethane	13.0	ug/L		12/28/2018 14:50
Chloroform	< 10.0	ug/L		12/28/2018 14:50
Chloromethane	< 10.0	ug/L		12/28/2018 14:50
cis-1,3-Dichloropropene	< 10.0	ug/L		12/28/2018 14:50
Dibromochloromethane	< 10.0	ug/L		12/28/2018 14:50
Ethylbenzene	< 10.0	ug/L		12/28/2018 14:50
Methyl tert-butyl Ether	< 10.0	ug/L		12/28/2018 14:50
Methylene chloride	< 25.0	ug/L		12/28/2018 14:50
Tetrachloroethene	< 10.0	ug/L		12/28/2018 14:50
Toluene	< 10.0	ug/L		12/28/2018 14:50
trans-1,2-Dichloroethene	< 10.0	ug/L		12/28/2018 14:50
trans-1,3-Dichloropropene	< 10.0	ug/L		12/28/2018 14:50



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 8I

 Lab Sample ID:
 185900-04
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

 Trichloroethene
 < 10.0</td>
 ug/L
 12/28/2018 14:50

 Trichlorofluoromethane
 < 10.0</td>
 ug/L
 12/28/2018 14:50

 Vinyl chloride
 581
 ug/L
 12/28/2018 14:50

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	zed
1,2-Dichloroethane-d4	110	86.4 - 119		12/28/2018	14:50
4-Bromofluorobenzene	77.1	76 - 118		12/28/2018	14:50
Pentafluorobenzene	100	87 - 112		12/28/2018	14:50
Toluene-D8	86.1	88.4 - 111	*	12/28/2018	14:50

Method Reference(s):EPA 624.1Data File:x57779.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 9D

 Lab Sample ID:
 185900-05
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/27/2018 18:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/27/2018 18:35
1,1,2-Trichloroethane	< 2.00	ug/L		12/27/2018 18:35
1,1-Dichloroethane	< 2.00	ug/L		12/27/2018 18:35
1,1-Dichloroethene	< 2.00	ug/L		12/27/2018 18:35
1,2-Dichlorobenzene	< 2.00	ug/L		12/27/2018 18:35
1,2-Dichloroethane	< 2.00	ug/L		12/27/2018 18:35
1,2-Dichloropropane	< 2.00	ug/L		12/27/2018 18:35
1,3-Dichlorobenzene	< 2.00	ug/L		12/27/2018 18:35
1,4-Dichlorobenzene	< 2.00	ug/L		12/27/2018 18:35
2-Chloroethyl vinyl Ether	< 10.0	ug/L		12/27/2018 18:35
Benzene	< 1.00	ug/L		12/27/2018 18:35
Bromodichloromethane	< 2.00	ug/L		12/27/2018 18:35
Bromoform	< 5.00	ug/L		12/27/2018 18:35
Bromomethane	< 2.00	ug/L		12/27/2018 18:35
Carbon Tetrachloride	< 2.00	ug/L		12/27/2018 18:35
Chlorobenzene	< 2.00	ug/L		12/27/2018 18:35
Chloroethane	< 2.00	ug/L		12/27/2018 18:35
Chloroform	< 2.00	ug/L		12/27/2018 18:35
Chloromethane	< 2.00	ug/L		12/27/2018 18:35
cis-1,3-Dichloropropene	< 2.00	ug/L		12/27/2018 18:35
Dibromochloromethane	< 2.00	ug/L		12/27/2018 18:35
Ethylbenzene	< 2.00	ug/L		12/27/2018 18:35
Methyl tert-butyl Ether	< 2.00	ug/L		12/27/2018 18:35
Methylene chloride	< 5.00	ug/L		12/27/2018 18:35
Tetrachloroethene	< 2.00	ug/L		12/27/2018 18:35
Toluene	< 2.00	ug/L		12/27/2018 18:35
trans-1,2-Dichloroethene	< 2.00	ug/L		12/27/2018 18:35
trans-1,3-Dichloropropene	< 2.00	ug/L		12/27/2018 18:35



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier:MW 9DLab Sample ID:185900-05Date Sampled:12/20/2018Matrix:WaterDate Received:12/21/2018

Trichloroethene 12/27/2018 18:35 < 2.00 ug/L Trichlorofluoromethane < 2.00 ug/L 12/27/2018 18:35 Vinyl chloride 41.7 12/27/2018 18:35 ug/L **Surrogate** Percent Recovery Limits **Outliers Date Analyzed** 105 86.4 - 119

1,2-Dichloroethane-d4 12/27/2018 18:35 4-Bromofluorobenzene 84.3 76 - 118 12/27/2018 18:35 Pentafluorobenzene 87 - 112 93.5 12/27/2018 18:35 Toluene-D8 90.2 88.4 - 111 18:35 12/27/2018

Method Reference(s):EPA 624.1Data File:x57755.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 10I

 Lab Sample ID:
 185900-06
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/27/2018 18:58
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/27/2018 18:58
1,1,2-Trichloroethane	< 2.00	ug/L		12/27/2018 18:58
1,1-Dichloroethane	< 2.00	ug/L		12/27/2018 18:58
1,1-Dichloroethene	< 2.00	ug/L		12/27/2018 18:58
1,2-Dichlorobenzene	< 2.00	ug/L		12/27/2018 18:58
1,2-Dichloroethane	< 2.00	ug/L		12/27/2018 18:58
1,2-Dichloropropane	< 2.00	ug/L		12/27/2018 18:58
1,3-Dichlorobenzene	< 2.00	ug/L		12/27/2018 18:58
1,4-Dichlorobenzene	< 2.00	ug/L		12/27/2018 18:58
2-Chloroethyl vinyl Ether	< 10.0	ug/L		12/27/2018 18:58
Benzene	< 1.00	ug/L		12/27/2018 18:58
Bromodichloromethane	< 2.00	ug/L		12/27/2018 18:58
Bromoform	< 5.00	ug/L		12/27/2018 18:58
Bromomethane	< 2.00	ug/L		12/27/2018 18:58
Carbon Tetrachloride	< 2.00	ug/L		12/27/2018 18:58
Chlorobenzene	< 2.00	ug/L		12/27/2018 18:58
Chloroethane	< 2.00	ug/L		12/27/2018 18:58
Chloroform	< 2.00	ug/L		12/27/2018 18:58
Chloromethane	< 2.00	ug/L		12/27/2018 18:58
cis-1,3-Dichloropropene	< 2.00	ug/L		12/27/2018 18:58
Dibromochloromethane	< 2.00	ug/L		12/27/2018 18:58
Ethylbenzene	< 2.00	ug/L		12/27/2018 18:58
Methyl tert-butyl Ether	5.97	ug/L		12/27/2018 18:58
Methylene chloride	< 5.00	ug/L		12/27/2018 18:58
Tetrachloroethene	< 2.00	ug/L		12/27/2018 18:58
Toluene	< 2.00	ug/L		12/27/2018 18:58
trans-1,2-Dichloroethene	< 2.00	ug/L		12/27/2018 18:58
trans-1,3-Dichloropropene	< 2.00	ug/L		12/27/2018 18:58



Date Analyzed

Client: **City of Rochester**

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 10I Lab Sample ID: 185900-06 **Date Sampled:** 12/20/2018 **Matrix:** Water **Date Received:** 12/21/2018

Percent Recovery

Trichloroethene 12/27/2018 18:58 < 2.00 ug/L Trichlorofluoromethane < 2.00 12/27/2018 18:58 ug/L 12/27/2018 18:58 Vinyl chloride < 2.00 ug/L **Surrogate Outliers**

Limits

1,2-Dichloroethane-d4	101	86.4 - 119	12/27/2018	18:58
4-Bromofluorobenzene	83.2	76 - 118	12/27/2018	18:58
Pentafluorobenzene	93.5	87 - 112	12/27/2018	18:58
Toluene-D8	90.8	88.4 - 111	12/27/2018	18:58

Method Reference(s): EPA 624.1 Data File: x57756.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 11I

 Lab Sample ID:
 185900-07
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		12/27/2018 17:04
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		12/27/2018 17:04
1,1,2-Trichloroethane	< 10.0	ug/L		12/27/2018 17:04
1,1-Dichloroethane	< 10.0	ug/L		12/27/2018 17:04
1,1-Dichloroethene	< 10.0	ug/L		12/27/2018 17:04
1,2-Dichlorobenzene	< 10.0	ug/L		12/27/2018 17:04
1,2-Dichloroethane	< 10.0	ug/L		12/27/2018 17:04
1,2-Dichloropropane	< 10.0	ug/L		12/27/2018 17:04
1,3-Dichlorobenzene	< 10.0	ug/L		12/27/2018 17:04
1,4-Dichlorobenzene	< 10.0	ug/L		12/27/2018 17:04
2-Chloroethyl vinyl Ether	< 50.0	ug/L		12/27/2018 17:04
Benzene	< 5.00	ug/L		12/27/2018 17:04
Bromodichloromethane	< 10.0	ug/L		12/27/2018 17:04
Bromoform	< 25.0	ug/L		12/27/2018 17:04
Bromomethane	< 10.0	ug/L		12/27/2018 17:04
Carbon Tetrachloride	< 10.0	ug/L		12/27/2018 17:04
Chlorobenzene	< 10.0	ug/L		12/27/2018 17:04
Chloroethane	< 10.0	ug/L		12/27/2018 17:04
Chloroform	< 10.0	ug/L		12/27/2018 17:04
Chloromethane	< 10.0	ug/L		12/27/2018 17:04
cis-1,3-Dichloropropene	< 10.0	ug/L		12/27/2018 17:04
Dibromochloromethane	< 10.0	ug/L		12/27/2018 17:04
Ethylbenzene	< 10.0	ug/L		12/27/2018 17:04
Methyl tert-butyl Ether	< 10.0	ug/L		12/27/2018 17:04
Methylene chloride	< 25.0	ug/L		12/27/2018 17:04
Tetrachloroethene	< 10.0	ug/L		12/27/2018 17:04
Toluene	< 10.0	ug/L		12/27/2018 17:04
trans-1,2-Dichloroethene	< 10.0	ug/L		12/27/2018 17:04
trans-1,3-Dichloropropene	< 10.0	ug/L		12/27/2018 17:04



Client: **City of Rochester**

RFA Semi-Annual GW Sampling DEQ-98045 **Project Reference:**

Sample Identifier: MW 11I Lab Sample ID: 185900-07 **Date Sampled:** 12/20/2018 **Matrix:** Water **Date Received:** 12/21/2018

Trichloroethene 12/27/2018 17:04 < 10.0 ug/L Trichlorofluoromethane < 10.0 12/27/2018 17:04 ug/L Vinyl chloride 294 12/27/2018 17:04 ug/L

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4	93.5	86.4 - 119		12/27/2018	17:04
4-Bromofluorobenzene	82.6	76 - 118		12/27/2018	17:04
Pentafluorobenzene	99.5	87 - 112		12/27/2018	17:04
Toluene-D8	91.6	88.4 - 111		12/27/2018	17:04

Method Reference(s): EPA 624.1 Data File: x57751.D



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier: MW 15S

 Lab Sample ID:
 185900-08
 Date Sampled:
 12/20/2018

 Matrix:
 Water
 Date Received:
 12/21/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/27/2018 19:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/27/2018 19:21
1,1,2-Trichloroethane	< 2.00	ug/L		12/27/2018 19:21
1,1-Dichloroethane	< 2.00	ug/L		12/27/2018 19:21
1,1-Dichloroethene	< 2.00	ug/L		12/27/2018 19:21
1,2-Dichlorobenzene	< 2.00	ug/L		12/27/2018 19:21
1,2-Dichloroethane	< 2.00	ug/L		12/27/2018 19:21
1,2-Dichloropropane	< 2.00	ug/L		12/27/2018 19:21
1,3-Dichlorobenzene	< 2.00	ug/L		12/27/2018 19:21
1,4-Dichlorobenzene	< 2.00	ug/L		12/27/2018 19:21
2-Chloroethyl vinyl Ether	< 10.0	ug/L		12/27/2018 19:21
Benzene	< 1.00	ug/L		12/27/2018 19:21
Bromodichloromethane	< 2.00	ug/L		12/27/2018 19:21
Bromoform	< 5.00	ug/L		12/27/2018 19:21
Bromomethane	< 2.00	ug/L		12/27/2018 19:21
Carbon Tetrachloride	< 2.00	ug/L		12/27/2018 19:21
Chlorobenzene	< 2.00	ug/L		12/27/2018 19:21
Chloroethane	< 2.00	ug/L		12/27/2018 19:21
Chloroform	< 2.00	ug/L		12/27/2018 19:21
Chloromethane	< 2.00	ug/L		12/27/2018 19:21
cis-1,3-Dichloropropene	< 2.00	ug/L		12/27/2018 19:21
Dibromochloromethane	< 2.00	ug/L		12/27/2018 19:21
Ethylbenzene	< 2.00	ug/L		12/27/2018 19:21
Methyl tert-butyl Ether	< 2.00	ug/L		12/27/2018 19:21
Methylene chloride	< 5.00	ug/L		12/27/2018 19:21
Tetrachloroethene	< 2.00	ug/L		12/27/2018 19:21
Toluene	< 2.00	ug/L		12/27/2018 19:21
trans-1,2-Dichloroethene	< 2.00	ug/L		12/27/2018 19:21
trans-1,3-Dichloropropene	< 2.00	ug/L		12/27/2018 19:21



Client: <u>City of Rochester</u>

Project Reference: RFA Semi-Annual GW Sampling DEQ-98045

Sample Identifier:MW 15SLab Sample ID:185900-08Date Sampled:12/20/2018Matrix:WaterDate Received:12/21/2018

 Trichloroethene
 < 2.00</td>
 ug/L
 12/27/2018 19:21

 Trichlorofluoromethane
 < 2.00</td>
 ug/L
 12/27/2018 19:21

 Vinyl chloride
 < 2.00</td>
 ug/L
 12/27/2018 19:21

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	<u>zed</u>
1,2-Dichloroethane-d4	101	86.4 - 119		12/27/2018	19:21
4-Bromofluorobenzene	80.9	76 - 118		12/27/2018	19:21
Pentafluorobenzene	95.3	87 - 112		12/27/2018	19:21
Toluene-D8	91.8	88.4 - 111		12/27/2018	19:21

Method Reference(s):EPA 624.1Data File:x57757.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

Rochester, NY 14608 0 S 4 ω DEQ-98045 RFA semi-annual GW samplin comments: email results to peckd@cityofrochester.gov Cc: Alexandra.Zobel@cityofrochester.gov PROJECT NAME/SITE NAME: 179 Lake Avenue if acceptable or note deviation: ∞ (585) 647-2530 * (800) 724-1997 SERVICES, INC. Sampled By: SAMPLE CONDITION: Check box ENVIRONMENTAL Received By Relinquished By: **LAB USE ONLY** PARADIGM 12/20 DATE 00 Dennis Peck 1024 1428 1603 1450 1542 OMM 000 154 TIME 00 2 0 0 0 - F m COMPANY: CITY OF ROCHESTER PHONE: 585-428-6884 CITY: ROCHESTER ADDRESS: 30 CHURCH STREET, ROOM 300B × ATTN: DENNIS PECK m > m o CONTAINER TYPE: I8 WM MW 7S IV WM MW 9D MW 6I MW 10I MW 15S MW 111 21/18 Date/Time: Date/Time Date/Time: SAMPLE LOCATION/FIELD ID 1201 REPORT TO: FAX: 585-428-6010 1035 STATE: NY alexandra.zobel@cityofrochester.gov PRESERVATIONS: Received By: Relinguished By: Received @ Lab By: ZIP: 14614 Water Water Water Water Water Water Water Water CHAIN OF CUSTODY X - D I D Z CITY: 2 AZM ATTN: PHONE: COMPANY: ADDRESS N N N N N N N × × × × × 601/602 + MTBE REQUESTED ANALYSIS 8260 SIMS AZM 1,4 dioxane only HOLDING TIME: INVOICE TO: FAX: STATE: D 2 ZIP: Date/Time: Date/Time: Date/Time: 3 TEMPERATURE: TURNAROUND TIME: (WORKING DAYS) AB PROJECT #: 85900 REMARKS 10:55 P.I.F. Total Cost: 5.5 PO 19001204 CLIENT PROJECT #: 17 2 SAMPLE NUMBER 31/10/01 50 0 D, 0 0 0 0 0



Chain of Custody Supplement

Client:	City of Rochester	Completed by:	Glenn Pezzulo
Lab Project ID:	185900	Date:	12/21/18
	Sample Condition I Per NELAC/ELAP 210/2-	Requirements 41/242/243/244	
Condition	NELAC compliance with the sample cond Yes	dition requirements upo No	on receipt N/A
Container Type Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments	VOA 624 : C/ neg		
Holding Time Comments			
Temperature Comments	9°		
Sufficient Sample Quantity Comments			

APPENDIX D

INSPECTION FORMS AND OPERATOR LOGS

ROCHESTER FIRE ACADEMY

STORM WATER COLLECTION SYSTEM INSPECTION CHECKLIST

Date:	10/15/18
Inspected By: _	B. J. Kline

	CONDITION	ON (Check)	· · · · · · · · · · · · · · · · ·
VISUAL EVALUATION ITEMS	Present	Not Present	Remarks
Drainage Channels a. Sediment build-up b. Pooling/ponding c. Severe cracking d. Erosion e. Slope loss			
2. Storm Sewers / Grates a. Sediment build-up b. Pooling / ponding c. Broken pipe d. Slope loss e. Grate clogging		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
 3. Drainage Structures #1, #2, #3 a. Flapper valve functioning b. Broken / cracked pipe c. Cracked headwall structure 			- OUTFALL BY FIRING RANGE GETTING CONGESTED (DRAINS FIRING RANGE ONLY, NOT CRITICAL TO OTHER AREAS OR SIGNIFICANT CONCERN).
Other Comments / Problems:			

ROCHESTER FIRE ACADEMY

COVER SYSTEM INSPECTION CHECKLIST

Date: 10/15/18
Inspected By: B. J. Kleine

	CONDITION (Check)				Remarks
	Acceptable	Not	Present	Not	
VISUAL EVALUATION ITEMS		Acceptable		Present	
 North Disposal Area 					
 a. Vegetative Cover Integrity 					
b. Erosion					
c. Settling				V	
d. Slope Loss				V	
e. Pooling / ponding					
f. Undesirable species					
2. South Disposal Area					
a. Vegetative Cover Integrity					
b. Erosion		7			
c. Settling				V	
d. Slope Loss					
e. Pooling / ponding				V	
f. Undesirable species				V	
3. Training Grounds Area	le:				- ASPHALT RECENTLY CRACK-SEALED
a. Surface Coarse Integrity					
b. Cracking					- RECOMMEND CONCRETE JOINTS BE
c. Potholes					SEALED OVER NEXT 12 MONTHS,
d. Pooling / ponding					TEX (COUNTY) AGREED TO PURSUE.
e. Undesirable species				V	
4. Other Comments / Problems:	- PALE GARA	20MCTD NOT	الم الم الم	Discret	
	DRAING TO	SOUTH MAN	15 ON MUL	, reastic	COVER IS BEING MAINTAINED,
	Perily 10	JUVIN EUGE	- UF TGA 10	OFF PROPERT	TO MINIMIZE INFILTRATION.
4. Culci Comments / Hobiens.	POLE BARN (DRAINS TO	CONSTRUCTION SOUTH EDGE	OF TGAL	D, PLASTIC (OFF PROPERT	COVER IS BEING MAINTAINED, ITY TO MINIMIZE INFILTRATION.

January	2018
---------	------

			WEEK OF					(-	
Daily Log Info:	Date:	1/1/18	1/2	1/3	1/4	/	1/5	1/6	ih
Daily Discharge (gal)		0	٥	0	48	30	3860	2760	2820
Total Flow Year-To-D	ate (gal)	0	O	0	478	81	8588	11,348	14,107
Alarms									
Weekly Log Info:	Site Chec	ck Date				(P1	w Rate In, GPI or P2)		
	NDA Grounds Check TGA Grounds Check		eck			Flow Rate Out, GPM (P1 or P2) Bag Filter PSI (In/Out)		PM	
			ck						
	SDA	Grounds Che	ck			Sequestering Agent Level, in.		nt	
SDA Plant Check						V Trench Pump tpoints (On/Off			
Site Notes:								50 80000.55	

7		
12	1/13	1/14
c	٥	a
9,950	29,930	29,930
te In, GPM 2)	1	
te Out, GP 2)	M	
er PSI		
ering Ager	nt	
nch Pump ts (On/Off)		4.0
		,
ti 2 ti 2	e In, GPN e Out, GF PSI ering Agen	e In, GPM 2) re Out, GPM 2) r PSI ering Agent

			WEEK OF:	· · · · · · · · · · · · · · · · · ·					
Daily Log Info:	Date:	1/15	1/16	1/17	_//	/8	1/19	1/20	1/21
Daily Discharge (gal)		0	2140	3/30	2	600	0	0	0
Total Flow Year-To-D	ate (gal)	29,930	32,017	35,075		7,637	37,637	37,637	37,637
Alarms									
	Site Che	ck Date Grounds Che	eck			(P1 Flow	Rate In, GPM or P2) Rate Out, GP or P2)		43
						(P1	or P2)		43
	TGA	Grounds Che	eck			Bag	Filter PSI		
	SDA Grounds Ch						Out) uestering Agen el, in.	it 32.8	
	SDA	Plant Check					Trench Pump points (On/Off)	11-1	4.0
Site Notes:									

WEEK OF:	

Daily Log Info:	Date:	1/22	1/23	1/24	1/25	1/26	1/27	1/28
Daily Discharge (gal)		0	0	12760	25,880	24,480	4950	4280
Total Flow Year-To-Date	(gal)	37637	37,637	50,270	75,879	100,142	105,040	109,256
Alarms								
Weekly Log Info:								

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
 Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	4.5/4.0

Site Notes:		

			WEEK OF:		
Daily Log Info:	Date:	1/29	1/30	1/31	
Daily Discharge (gal)		4190	4140	3600	
Total Flow Year-To-D	ate (gal)	113,398	117,521	12/,077	
Alarms				Tomas (official const.)	
Weekly Log Info:					
	Site Ched	ck Date			Flow Rate In, GPM (P1 or P2)
	NDA Grounds Che		ck		Flow Rate Out, GPM (P1 or P2)
	TGA	Grounds Che	k		Bag Filter PSI (In/Out)
	SDA	Grounds Che	ck		Sequestering Agent Level, in.
	SDA Plant Check				GW Trench Pump Setpoints (On/Off)
Site Notes:					
		<u> </u>			,

		WEEK OF:	<u></u>				
Daily Log Info:	Pate: a/ 1/18	2/2	2/3	2/4	a/5	2/6	2/1
Daily Discharge (gal)	4480	3920	4040	3630	3300	3480	3/30
Total Flow Year-To-Date (ga	al) 125,507	129,372	133,3%	136,967	140,160	143,639	146,750
Alarms							
Weekly Log Info:							

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	45/40

Site Notes:		
	<u></u> _	 <u></u>

WEEK OF:	

Daily Log Info: Date	e: 2/8	2/9	2/10	2/11	2/12	2/13	2/14
Daily Discharge (gal)	3200	3090	3700	2990	2580	3040	3850
Total Flow Year-To-Date (gal)	149,919	152,938	156,579	159,561	162,513	165,528	169,34/
Alarms							

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

	ow Rate In, GPM 1 or P2)	
	ow Rate Out, GPM 1 or P2)	
	g Filter PSI /Out)	
	questering Agent vel, in.	
G! Se	W Trench Pump etpoints (On/Off)	4.5/4.0

Site Notes:	

		WEEK OF:					
Daily Log Info: Date	2/15	2/16	2/17	2/18	d19	2/20	2/21
Daily Discharge (gal)	7600	6780	4530	4230	4610	7420	4920
Total Flow Year-To-Date (gal)	176,843	183,490	188,056	192,247	196,825	204,198	209,027
Alarms							

Site Check Date	2/19/18
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	V

Flow Rate In, GPM (P1)or P2)	34 P1
Flow Rate Out, GPM (P1 or P2)	42 82
Bag Filter PSI (In/Out)	15/3 9/0
Sequestering Agent Level, in.	30,8 add
GW Trench Pump Setpoints (On/Off)	45/40

Site Notes:	
2/19/18	Quarterly In/Eff Sampling

WEEK	OF:	
WEEK	OF:	

Daily Log Info: Date	2/22	2/23	2/24	2/25	2/26	2/27	2/28/17
Daily Discharge (gal)	4860	4640	4600	6200	4750	4110	3560
Total Flow Year-To-Date (gal)	213,830	218,433	222,943	229,099	233,734	237, 783	241,307
Alarms							

Site Check Date	2/23
NDA Grounds Check	V
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	~

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	35.5 2/23 34.0 3/1
GW Trench Pump Setpoints (On/Off)	4.5/4.2

Site Notes:	

WEEK OF: Daily Log Info: 3/5 Date: 3/2 3/4 3/6 5/80 Daily Discharge (gal) 4190 3930 4240 3880 3230 4090 Total Flow Year-To-Date (gal) 269,801 264,637 248,542 256,272 260,477 252,456 245,305 Alarms Weekly Log Info: Flow Rate In, GPM Site Check Date (P1 or P2) Flow Rate Out, GPM NDA Grounds Check (P1 or P2) Bag Filter PSI TGA Grounds Check (In/Out) Sequestering Agent 34.6 34.0 3/6 SDA Grounds Check 3/1/8 Level, in. **GW Trench Pump** SDA Plant Check Setpoints (On/Off) Site Notes:

			WEEK	OF:							
Daily Log Info:	Date:	3/8	3/9		3/10	3/	11	3/12	3/	13	3/14
Daily Discharge (gal)		5090	4960)	4430	Τ 🗂	146	4400		3930	4020
Total Flow Year-To-D	ate (gal)	274,862	279,7		284,078	2	88,519	292,875	29	4737	300, 642
Alarms					,						
Weekly Log Info:	Site Che	ck Date		3	lulges		(P1	w Rate In, GPI or P2)			
	NDA	Grounds Che	eck	·		Flow Rate Out, GPM (P1 or P2)		PM			
	TGA	Grounds Che	eck			(in/O Sequ		g Filter PSI /Out)			
	SDA	Grounds Che	eck					questering Age rel, in.	ent	32.9	3/12
	SDA	A Plant Check		-				/ Trench Pum tpoints (On/Of		45/4.	a
Site Notes:						····					
			_							-	

WEEK OF:	

Daily Log Info: Da	te: 3/15	3/16	3/17	3/18	3/19	3/20	3/21
Daily Discharge (gal)	4/00	4/90	4400	4660	5220	4780	4540
Total Flow Year-To-Date (gai	304692	308,768	313,103	3/7,705	322,861	327,584	337,045
Alarms							

Site Check Date	3/21/18
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	V

Flow Rate In, GPM (P1)or P2)	37	3/21/18
Flow Rate Out, GPM (P1 or P2)	Both 43	
Bag Filter PSI (In/Out)		
Sequestering Agent Level, in.	3/1.5/35.5	
GW Trench Pump Setpoints (On/Off)	4.5/40	

Site Notes:	

			WEEK (DF:		<u>.</u>					
Daily Log Info:	Date:	3/22	3/23		3/24	3/2	25	3/26	3/	/ 27	3/28
Daily Discharge (gal)		6290	708		6320	3	5600	5220		5780	56∞
Total Flow Year-To-D	ate (gal)	338,268	345	789	351,572	3	57,134	362,279	36	7,985	373,507
Alarms											
Weekly Log Info: Site Check Date NDA Grounds Check Check Date TGA Grounds Check Date		ck				(P1 Flow (P1 Bag (In/C	v Rate In, GPN or P2) v Rate Out, Gf or P2) Filter PSI Out) puestering Age el, in.	РМ			
SDA Plant Check						GW Trench Pump Setpoints (On/Off)			4.5/4.0		
Site Notes:											

			WEEK OF:		····					
Daily Log Info:	Date:	3/29	3/30	3/31						
Daily Discharge (gal)		5790	8840	1160						
Total Flow Year-To-D	ate (gal)	379,223	387,946	389,085						
Alarms										
Weekly Log Info:										
Weekly Log Kilo.	Site Che	ck Date				w Rate In, GPM I or P2)				
	NDA Grounds Che		eck		Flo	Flow Rate Out, GPM (P1 or P2)				
	TGA	Grounds Che	ck		Ba	g Filter PSI /Out)				
	SDA	A Grounds Che	ck		Se	questering Agent vel, in.	33.2	3/31		
	SDA	A Plant Check			GV	V Trench Pump tpoints (On/Off)				
Site Notes:										
	<u> </u>									
										

			WEEK (OF:		· · · · · · · · · · · · · · · · · · ·	**				
Daily Log Info:	Date:	4/1/18	4/2		4/3	4/	4	45	4	4/6	4/2
Daily Discharge (gal)		0	1390		0	(>	7760	2	4600	2190
Total Flow Year-To-Da	ate (gal)	389,085	390,4	7 _	390,471	39	0,471	398 180	4	19,657	421,832
Alarms											
Weekly Log Info:									_		····
	Site Ched	ck Date]					v Rate In, GPN or P2)	А		
	NDA Grounds Check						Flow Rate Out, GPM (P1 or P2)				
	TGA Grounds Check					Bag Filter PSI (In/Out)					
	SDA Grounds Check							uestering Age el, in.	nt	33.14	4 Add 5
SDA Plant Check								/ Trench Pump points (On/Off			
Site Notes:						<u> </u>					
				_							

_	Date:	4/8	4/9	4/10	_4/	///	4/12	4/13	4/14
Daily Discharge (gal)		0	1460	0	(<u>o</u>	0	11,550	14430
Total Flow Year-To-Dat	te (gal)	42/832	423,27	0 423,270	40	23,270	423,270	434,779	
Alarms									
Weekly Log Info:									4/13
- F	Site Chec	k Date		4/13/18			w Rate In, GPN øf P2)	1	36 P2
	NDA Grounds Check		V		Flow Rate Out, GPM (P1 or P2)		PM	44 P2	
-	TGA Grounds Check		ck	* V			Filter PSI Out)		
	SDA Grounds Check		ock	1/			uestering Agerel, in.	nt 62	2-1 61.24/4
	SDA Plant Check			V	GW Trer		/ Trench Pump tpoints (On/Off		/

Daily Log Info:	Date:	15	16	/7	18	19	20	21
Daily Discharge (gal)		4,740	3,4/	0	0	0	<u>c</u>	\$
Total Flow Year-To-D	ate (gal)	453,716	457,0	75 457,075		SAME		
Alarms								
Market an Info.								
Weekly Log Info:	Site Check Date			4/16/18	1	ow Rate In, GPI 1 or P2)	M	
	NDA Grounds Check			Flow Rate Out, GPM (P1 or P2)				
	TGA Grounds Check			V	Bag Filter PSI (In/Out)			
	SDA Grounds Check			V		equestering Age evel, in.	ent	
SDA Plant Check				V		W Trench Pumpetpoints (On/Of		
	-1			+ 0		ad Meel	Manage	Corente +
Site Notes: 4//	7/18	Catt pur	ns sta L.	tion alarm I told the	- Ingovin	Summor or	10 Augus	in lunt or
_ they aremoving w	nous	le snoon	ing.	u. I A	11	1. + Hi		O t

			WEEK OF	•				
Daily Log Info:	Date:	4/22	4/23	4/24	4/25	4/26	4/27	4/28
Daily Discharge (gal)		0	0	0	0	200	a	0
Total Flow Year-To-D	ate (gal)	457,075			457,075	457, 273		
Alarms								
Weekly Log Info:	TGA	ck Date A Grounds Che A Grounds Che A Grounds Che	eck	4/26/18 V	(P1 Flo (P1 Ba (In) Se Ler	w Rate In, GPI i or P2) w Rate Out, G I or P2) g Filter PSI (Out) questering Age vel, in.	PM ent	
	SDA	A Plant Check		V		V Trench Pum tpoints (On/Of		
Site Notes:	1/17	Sample GA pumj	effluen station	t still m	et function	ming e	spect Mc	PW to pump

WEEK OF: Daily Log Info: Date: 4/29 30 Daily Discharge (gal) Total Flow Year-To-Date (gal) 457,273 Alarms Weekly Log Info: Flow Rate In, GPM Site Check Date (P1 or P2) Flow Rate Out, GPM NDA Grounds Check (P1 or P2) Bag Filter PSI TGA Grounds Check (In/Out) Sequestering Agent SDA Grounds Check Level, in. **GW Trench Pump** SDA Plant Check Setpoints (On/Off) Site Notes:

WEEK OF: _______

Daily Log Info: D	ate: 5/1/18	5/2	5/3	5/4	5/5	5/6	5/1
Daily Discharge (gal)	0	11,990	25,480	16,390	3900	3560	3680
Total Flow Year-To-Date (ga	al) 457,273	469,735	494,253	510,491	5/4,325	5/7,846	521,438
Alarms							

Site Check Date	5/3/18
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	~
SDA Plant Check	V

		_
Flow Rate In, GPM (P1 of P2)	4/ 125/3	4
Flow Rate Out, GPM (P1 of P2)	445/3 P2	37
Bag Filter PSI (In/Out)		
Sequestering Agent Level, in.	59.9 5/3	
GW Trench Pump Setpoints (On/Off)	45/40	

5/2 12:00 5/2/18 TGA pump station issues fixed and Treatment Plant is back online.	
5/4 80 5.78	

		WEEK OF:					
Daily Log Info: Da	ate: 5/8	5/9	5/10	5/11	5/12	5/13	5/14
Daily Discharge (gal)	3280	3570	3260	3510	3220	2970	2940
Total Flow Year-To-Date (ga		528,144	531,354	534,860	538,053	541,000	543915
Alarms							

Site Check Date	
NDA Grounds Check	
TGA Grounds Check	
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	36 A
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	
GW Trench Pump Setpoints (On/Off)	4.5/4.0

Site Notes:	

WEEK	Or:	

Daily Log Info: Dat	e: 5/15	5/16	5/17	5/18	5/19	5/20	5/21
Daily Discharge (gal)	3340	2530	3100	2890	3330	2590	2770
Total Flow Year-To-Date (gal)	547,181	549,791	552,757	555,620	558,913	561,467	544,200
Alarms							

Site Check Date	5/5/18
NDA Grounds Check	L
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	

	The state of the s
Flow Rate In, GPM (P1 or P2)	36 P2
Flow Rate Out, GPM (P1 or P2)	44 82
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	575 5 15
GW Trench Pump Setpoints (On/Off)	4.5/4.0

Site Notes:		
5/15	Sample influent + effluent	
9/15	sange significant specific	

			WEEK (OF:						
Daily Log Info:	Date:	5/22	5/23	. 4	5/24	5/2	5	5/26	5/27	5/28
Daily Discharge (gal)		2990	2853	7	2980	1	670	2960	2570	2930
Total Flow Year-To-D	ate (gal)	567,167	569.9		572,892	5	15,507	578,464	581,000	583,688
Alarms							,			
Weekly Log Info:										
Troomy Log Ime.	Site Chee	ck Date						v Rate In, GPN or P2)	<i>A</i>	
	NDA	Grounds Che	ck				t .	v Rate Out, Gl or P2)	PM	
	TGA	Grounds Che	ck					Filter PSI Out)		
	SDA	Grounds Che	ck					uestering Age el, in.	nt	
	SDA	Plant Check	-					Trench Pump points (On/Off		
	L									
Site Notes:										

Daily Log Info:	Date:	5/29	5/30	5/31			
Daily Discharge (gal)	2750	2410	2790			
Total Flow Year-To-l	Date (gal)	586,586	588,787	591,720			
Alarms							
Weekly Log Info:			1		Flow	Rate In, GPM	
	Site Chec	ck Date Grounds Che	eck	5/31/18	(P1 c	Rate Out, GPM or P2)	41 12
	NDA			5/31/18 V	(P1 c Flow (P1 c	Rate Out, GPM or P2) Filter PSI	
	NDA TGA	Grounds Che	eck	5/31/18 V	(P1 of Flow (P1 of Bag (In/C) Seq	Rate Out, GPM or P2) Filter PSI	41 P2 56105/31

			WEEK	OF:						
Daily Log Info:	Date:	6/1/18	6/2		6/3	6/	4	6/5	6/6	6/2
Daily Discharge (gal)		2940	264	0	2780	j	3540	3000	2600	2670
Total Flow Year-To-Da	ate (gal)	594,628	597.	230	599,981	6	02506	605,502	608,000	6/0,607
Alarms										
Weekly Log Info:					//		Flov	w Rate In, GPN	1	
	Site Ched	ck Date		6	16/18		(P1	or P2) w Rate Out, GF		
	NDA	Grounds Che	ck	i	V		(P1	or P2)	-141	
	TGA	Grounds Che	ck		1			; Filter PSI Out)		
	SDA	Grounds Che	ck		V			questering Age el, in.	nt .56.0 5/31	55.5 4/4
	SDA	Plant Check			V			/ Trench Pump points (On/Off		
Site Notes:										

			WEEK	OF:						
Daily Log Info:	Date:	6/8	6/9		6/10	6	/11	6/2	€/13	6/14
Daily Discharge (gal)		3570	345	80	2660	5	1450	2700	2410	2690
Total Flow Year-To-I	Date (gal)	613,202	6/5		6/5,253	60	W671	623,353	635,741	628,399
Alarms										
Weekly Log Info:	Site Che	ck Date		61	12/18		(P1	v Rate In, GPM or(P2)		41 82
	NDA	Grounds Che	ck		V			v Rate Out, GP or P2)	PM	
	TGA	Grounds Che	ck		V			Filter PSI Out)		
	SDA	Grounds Che	ck		V			uestering Ager el, in.	nt	<i>i</i> ————
	SDA	A Plant Check			U			/ Trench Pump points (On/Off)		5/40
Site Notes:										

WEEK OF: _____

Daily Log Info: Date	6/15	6/16	6/17	4/18	6/19	6/20	6/21
Daily Discharge (gal)	2430	2610	2390	973c	2330	2620	2420
Total Flow Year-To-Date (gal)	630,812	633,388	635,745	638,436	640,736	643,384	645,729
Alarms							

Site Check Date	6/18/18
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	V

Flow Rate In, GPM (P1 or P2)	40 +1
Flow Rate Out, GPM (P1 or P2)	
Bag Fitter PSI (In/Out)	
Sequestering Agent Level, in.	54.2 6/20
GW Trench Pump Setpoints (On/Off)	

Site Notes:			
6/18/18	Sample effluer June has be	£	
	June has he	en dry soften	
	0	0	

			WEEK OF:							
Daily Log Info:	Date:	6/22	6/23	6/24	6/2	5 ⁻	6/26	6/2	<u>, ר</u>	6/28
Daily Discharge (gal)		2200	2500	3630	2	330	2200	2	880	2200
Total Flow Year-To-D	ate (gal)	647,916	650,400		65	5,314	657,477	66	0,290	662,470
Alarms	.,									
Weekly Log Info:	Site Che	ck Date			6		v Rate In, GPM or P2)	1	40'	PI
	NDA	Grounds Che	ck				w Rate Out, GF or P2)	M		
	TGA	Grounds Che	ck				Filter PSI Out)			
	SDA	Grounds Che	ck				uestering Ager el, in.	nt		
	SDA	Plant Check					/ Trench Pump points (On/Off)			
Site Notes:										
			- <u> </u>							

			WEEK OF:					
Daily Log Info:	Date:	6/29	6/30	3F,				
Daily Discharge (gal)		2380	1970					
Total Flow Year-To-D	ate (gal)	664,790	666,708					
Alarms								
Weekly Log Info:								
Weekly Log fillo.	Site Che	ck Date				ow Rate In, GPM 1 or P2)		<u> </u>
	NDA	Grounds Che	ck		Flo	ow Rate Out, GPM 1 or P2)		
	TGA	Grounds Che	ck			g Filter PSI /Out)		
	SDA	Grounds Che	ck		Se Le	questering Agent vel, in.		
	SDA	Plant Check				W Trench Pump etpoints (On/Off)		
Site Notes:								
							<u> </u>	
					 _		· -	

Daily Log Info:	Date:	7/1/18	7/2	7/3	7/4	75	7/6	7/2
Daily Discharge (gal)		2530	2660	2290	2420	2390	24/0	2340
Total Flow Year-To-D	ate (gal)	669,213	671,819	674,089	676,479	678,844	684204	683,53/
Alarms		,			,			
Weekly Log Info:	Site Chec	∴k Date	1			v Rate In, GPM or P2)	1	
		Grounds Che	cik		Flov	v Rate Out, GP or P2)	PM	
	TGA	Grounds Che	ck		Bag	Filter PSI Out)		
	SDA	Grounds Che	ck			uestering Ager ei, in.	nt	
	SDA	Plant Check				Trench Pump points (On/Off)		
Site Notes:						<u> </u>		
					<u>.</u>			
			· · · · · · · · · · · · · · · · · · ·	<u> </u>			<u> </u>	
	<u></u>	·			<u> </u>		<u> </u>	

			WEEK	OF:		<u></u>	·				
Daily Log Info:	Date:	7/8	7/9		7/10	7	/11	7/12	7/	/3	7/14
Daily Discharge (gal)		3210	235	6	2380	2	340	2140	2	3 <i>3</i> @	3100
Total Flow Year-To-Da	ate (gal)	685,727	688,0	51	690,436	6	72,744	694,836	6	7,170	69,249
Alarms		, •									
Weekly Log Info:											
recomy Log mile.	Site Chec	ck Date		7	1/12/18			v Rate In, GPN or P2)	1		
	NDA	Grounds Che	cik		V		Flov	v Rate Out, Gf or P2)	PM		
	TGA	Grounds Che	ck		V			Filter PSt Out)			
	SDA	Grounds Che	ck					uestering Age el, in.	nt	52.4	17/12
	SDA	Plant Check			V			Trench Pump points (On/Off		4.5	140
Site Notes:	Dry	July S.	o fan							,	

WEEK OF:

Daily Log Info:	Pate: 15	7/16	2/17	7/18	7/19	7/20 -	7/21
Daily Discharge (gal)	2350	2090	2600	2050	2410	2460	1880
Total Flow Year-To-Date (ga		703,644	706,209	708,239	710,643	7/2,688	714,525
Alarms	13.151	10.7	1		, , , , , , , , , , , , , , , , , , ,		

Site Check Date	7/17/18
NDA Grounds Check	1/
TGA Grounds Check	1
SDA Grounds Check	V
SDA Plant Check	V

Flow Rate In, GPM (P1 or P2)	394 P4
Flow Rate Out, GPM (P1 or P2)	31 P2
Bag Filter PSI (In/Out)	·
Sequestering Agent Level, in.	5/197/17
GW Trench Pump Setpoints (On/Off)	4,5/4.0

Site Notes:			
7/17	Sample	effluent	
	/		

		WEEK OF:					
Daily Log Info: Date.	7/22	7/23	7/24	7/25	7/26	7/27	7/28
Daily Discharge (gal)	2270	3390	2450	2280	2390	2300	2250
Total Flow Year-To-Date (gal)	716,785	719,154	721,581	723,843	726,212	728,492	730,7/8
Alarms							

Site Check Date	7/24/18
NDA Grounds Check	/
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	/

43 P2 7/24
/ .
4.5/4.0

(Pa)	
39 7/2	7

Site Notes:		<u> </u>	
7/25	Heavy Rain		

Daily Log Info:	Date:	7/29	7/30	7/31			
aily Discharge (gal)		2450	1880	2/80			
otal Flow Year-To-Da	ite (gal)	733,148	735,484	737,645			
Jarms		,					
	Site Chec	ck Date	eck		(P1 or F	ate Out, GPM	-
	NDA	Grounds Che	eck		(P1 or F	(2)	
	TGA	Grounds Che	eck		Bag Filt (In/Out)		
	SDA	Grounds Che	eck		Seques Level, i	tering Agent n.	
	SDA	Plant Check			GW Tre Setpoir	ench Pump hts (On/Off)	
	L	-				-	
Site Notes:							

			WEEK OF:			<u> </u>				
Daily Log Info:	Date:	8/1/18	8/2	8/3	81	4	8/5	8/	6	8/7
Daily Discharge (gal)	Daily Discharge (gal)		1920	2660	2660 1910		2290	2	410	2100
Total Flow Year-To-Da	Total Flow Year-To-Date (gal)		742,054	N/-17 12 1			16,557 748,817		1,195	753,269
Alarms	•			, ,						
Weekly Log Info:	Weekly Log Info:						v Rate In, GPN	А		
	Site Check Date					(P1 or P2) Flow Rate Out, GPM				
	NDA Grounds Check					(P1 or P2)				
	TGA Grounds Check						Filter PSI Out)			
	SDA Grounds Check						uestering Age el, in.	ent		. <u> </u>
SDA Plant Check							/ Trench Pump points (On/Off		4.5	14.0
			, -							
Site Notes:						- /				
										
		 -								

WEEK OF:											
Daily Log Info:	Date:	8/8	8/9		8/10	- 8/	///	8/12	8/	/3	8/14
Daily Discharge (gal)		2410	230	2300 2420		2040		2430	2360		2530
Total Flow Year-To-D	al Flow Year-To-Date (gal)		757.	920	760,314	762,300		764,652	76	7,036	769,55)
Alarms			,								
Weekly Log Info:											
	Site Check Date		8/14/18		(P1 or P2)						
	NDA Grounds Check		ck		V	Flow Rate Out, GPM (P1 or P2)		M			
	TGA Grounds Check				V		Bag Filter PSI (In/Out)				
	SDA Grounds Check		ck		V			uestering Age el, in.	nt	49.7	8/14
SDA Plant Check				V			Trench Pump points (On/Off		4.5/	4.0	
Site Notes:				-							

WEEK OF: _____

Daily Log Info:	Date:	8/15	8/16	8/17	8/18	8/19	8/20	8/21
Daily Discharge (gal)		2040	2520	2250	2550	2280	2360	2550
Total Flow Year-To-Date ((gal)	771,536	774,043	776,274	778,798	781,026	783,389	785,901
Alarms			,					

Weekly Log Info:

Site Check Date	8/16/18
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	
SDA Plant Check	

Flow Rate In, GPM (P1 or P2)	39 PI
 Flow Rate Out, GPM (P1 or P2)	43 P2
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	49,5 8/16
GW Trench Pump Setpoints (On/Off)	

Site Notes:		
8/20	Quarterly In/Eff. Samy	olina
0/0	Samond Holl.	
<u> </u>		

			WEEK OF:	***	<u></u>			
Daily Log Info:	Date:	8/22	8/23	8/24	8/25	8/26	8/27	8/28
Daily Discharge (gal)		2520	2010	2520	2140 2380 6		2430	1990
Total Flow Year-To-Da	ate (gal)	788,377	790,370	792,869	794,977	793334	799,736	801,709
Alarms	, , , , , , , , , , , , , , , , , , , ,							
Weekly Log Info:	TGA	ck Date Grounds Che Grounds Che Grounds Che Check	ck		(P1 Flov (P1 Bag (In/ Sec Lev	v Rate In, GPN or P2) v Rate Out, GI or P2) g Filter PSI Out) questering Age vel, in. v Trench Pump tpoints (On/Off	PM ent	
Site Notes:								

			WEEK OF:					
Daily Log Info:	Date:	8/29	8/30	8/31				
Daily Discharge (gal)		2740	2530	2290				
Total Flow Year-To-Da	ate (gal)	804,057	806,562	808,848				
Alarms								
Weekly Log Info:								
Weekly Log IIIIo.	Site Ched	ck Date				v Rate In, GPM or P2)		
	NDA	Grounds Che	ck		Flov	v Rate Out, GPM or P2)		
	TGA	Grounds Che	ck		Bag	Filter PSI Out)		
	SDA	Grounds Che	ck			uestering Agent el, in.	48.3	8/30
	SDA	Plant Check				/ Trench Pump points (On/Off)	4.5/4	1.0
Site Notes:								

			WEEK O	F:					
Daily Log Info:	Date:	9/1/18	2/2	9/3	_ 2	4	2/5	9/6	9/1
Daily Discharge (gal)		2110	2330	1950	2	350	2000	2430	2250
Total Flow Year-To-Da	ate (gal)	8/0,93/	813,22	2 8/5,152	81	7,484	819,443	821,840	824,055
Alarms									
Weekly Log Info:									
	Site Ched	ck Date	9/6			Flow Rate In, GPM (P1 or P2)			
	NDA	Grounds Che	ck	V			w Rate Out, GF or P2)	PM	
	TGA	Grounds Che	ck	V		Bag Filter PSI (In/Out)			
	SDA	Grounds Che	ck	V		Sec	uestering Ager	it 48.0	9/4
	SDA	Plant Check					Trench Pump points (On/Off)		14.0
Site Notes:									

WEEK OF: _____

Daily Log Info:	Date:	9/8	1/9	9/10	9/11	9/12	9/13	9/14
Daily Discharge (gal)		2160	2590	2340	2110	2050	2560	2000
Total Flow Year-To-Date	e (gal)	826,213	828,794	831/16	833,206	835,237	837,797	839,769
Alarms		,						

Weekly Log Info:

Site Check Date	9/12/18
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	V

Flow Rate In, GPM (P1 or P2)	
Flow Rate Out, GPM (P1 or P2)	
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	47.2 9/12
GW Trench Pump Setpoints (On/Off)	4.5/4.0

Site Notes:			110	1 11
9/12	INC. PW	on site to	Sample elplinest	. Also City samples offleren
	7.10		7 00	

Daily Discharge (gal) 2020 2/60 2340 2400 2540 1970 24/0	Daily Log Info:	Date:	-		. =		C-	16	20	21
Total Flow Year-To-Date (gal) 841,766 843,881 846, 201 846,570 851,064 853,036 855,427			15	16_		-,-/	8	77		1
Weekly Log Info: Site Check Date Site Check Date	Daily Discharge (gal)		2020	2160	2340	2	400	2540	1970	2410
Weekly Log Info: Site Check Date NDA Grounds Check TGA Grounds Check SDA Grounds Check SDA Plant Check SDA Plant Check SDA Plant Check Site Check Date 9/17/8 Flow Rate In, GPM (P1 or P2) Flow Rate Out, GPM (P1 or P2) Bag Filter PSI (In/Out) Sequestering Agent Level, in. GW Trench Pump Setpoints (On/Off) 4.5/4.0	Total Flow Year-To-Da	ate (gal)	846766	843,88	846,201	84	8,570	10 851,064 853,03g		855,427
Site Check Date 1/18 Flow Rate In, GPM (P1 or P2) 37 P1 q/25	Alarms									
Site Check Date 1/8										
NDA Grounds Check TGA Grounds Check SDA Grounds Check SDA Plant Check SDA Plant Check Flow Rate Out, GPM (P1 or P2) Bag Filter PSI (In/Out) Sequestering Agent Level, in. GW Trench Pump Setpoints (On/Off) 46.9 9/17	Weekly Log Info:	Site Chec	k Date		alista				1 3-	P1 9/25
TGA Grounds Check SDA Grounds Check SDA Plant Check SDA Plant Check Bag Filter PSI (In/Out) Sequestering Agent Level, in. GW Trench Pump Setpoints (On/Off) 46.9 9/17 GW Trench Pump Setpoints (On/Off)				ck	1111/18		Flov	v Rate Out, GF		
SDA Grounds Check Sequestering Agent Level, in. GW Trench Pump Setpoints (On/Off) 46.9 9/17 45/4.0		TGA	Grounds Che	ck	V		Bag	Filter PSI		
SDA Plant Check GW Trench Pump Setpoints (On/Off) 45/4.0		SDA	Grounds Che	ck	V	1	Seq	uestering Age	nt 46.9	9/17
Site Notes:		SDA	Plant Check		~		GW	Trench Pump		5/4.0
Site Notes:						_				
	Site Notes:									

			WEEK OF:	 ;;					
Daily Log Info:	Date:	22	23	24	iZ	5	26	27 ,	28
Daily Discharge (gal)		1990	2600	2160	2	080	2460	2/30	2410
Total Flow Year-To-D	ate (gal)	857,409	859,952	862,071	86	9,121	866,570	868,679	871,065
Alarms									
Weekly Log Info:									
Weekly Log IIIIo.	Site Ched	ck Date					w Rate In, GPM or P2)		
	NDA	Grounds Che	ck				w Rate Out, GP or P2)	М	
	TGA	Grounds Che	ck			Bag (in/	Filter PSI Out)		
	SDA	Grounds Che	ck			Sec	questering Ager el, in	nt	
	SDA	Plant Check				GW	/ Trench Pump points (On/Off)	4.	5/4.0
O'A- Natara	<u> </u>	<u> </u>							
Site Notes:		·				<u></u>			
	 .		<u></u>						
			<u></u>						
	<u> </u>								

Daily Log Info:	Date:	29	WEEK OF:	3/				
Daily Discharge (gal)		2290	26/0					
Total Flow Year-To-Da	ate (gal)	873,333	875,928					
Alarms								
Weekly Log Info:								
weekly Log Inlo.	Site Chec	k Date				w Rate In, GPM or P2)		
	NDA	Grounds Ched	ж.		Flo	w Rate Out, GPN or P2)	И	
	TGA	Grounds Ched	×		Bag	Filter PSI Out)		
	SDA	Grounds Ched	*		Sec	questering Agent rel, in.	t	-
	SDA	Plant Check			GV Se	/ Trench Pump tpoints (On/Off)		
Site Notes:								
								
<u></u>							 -	
			<u>,</u>				· · · · · · · · · · · · · · · · · · ·	

			WEEK OF:							
Daily Log Info:	Date:	10/1/18	10/2	10/3	101	4	10/5	19	6	10/7
Daily Discharge (gal)		2100	2620	2090		242c	2690	2	220	2650
Total Flow Year-To-Da	ate (gal)	878,006	880,604	882,676		5,021	887,661	88	9,865	892,468
Alarms										
Weekly Log Info:	Site Ched	xk Date					v Rate In, GPN or P2)	1	3	7 P1
	NDA	Grounds Che	eck			Flov	v Rate Out, GF or P2)	ЭМ		
	TGA	Grounds Che	eck			Bag	Filter PSI Out)			
	SDA	Grounds Che	eck			Sec	uestering Age	nt	10/5/18	45.5
	SDA	Plant Check				GW	/ Trench Pump points (On/Off		4.5/	4.0
Cita Nata-	Ļ		<u></u>							
Site Notes:	<u>. </u>									
	ì	<u>-</u>	<u> </u>							
	<u></u>			···········		·				<u>.</u> <u></u>

			WEEK OF:					
Daily Log Info:	Date:	10/8	10/9	10/10	10/11	10/12	10/13	10/14
Daily Discharge (gal)		2760	2550	2330	2840	2620	263c	2720
Total Flow Year-To-Da	ate (gal)	895,173	897,701	899,985	902,748	905,332	907,953	910,634
Alarms	-							
Weekly Log Info:	Site Chec	ck Date	ck		(P1 Flow (P1	v Rate In, GPt or P2) v Rate Out, Gl or P2)	37	P2 Iolu
•	····	Grounds Che			(In/	Filter PSI Out) questering Age	ent t///-	7 10/11
		Plant Check			GW	el, in. / Trench Pump points (On/Off	ρ	
Site Notes:	1/18	Sample	efflue	nt				

			WEEK OF:	<u> </u>					
Daily Log Info:	Date:	10/15	10/16	10/17	101	18	10/19	10/20	10/21
Daily Discharge (gal)		3660	2220	267C		280	2680	2400	2630 927,957
Total Flow Year-To-D	ate (gal)	913,259	915,450		92	0,320	922, 964	925,344	927,957
Alarms					See This				
Weekly Log Info:	TGA	ck Date Grounds Che Grounds Che Grounds Che	ck		8	(P1 Flow (P1 Bag (In/0 Sec	v Rate In, GPN or P2) v Rate Out, GI or P2) j Filter PSI Out) juestering Age el, in.	PM nt	
	SDA	Plant Check]		points (On/Off		
Site Notes:									

			WEEK OF:							
Daily Log Info:	Date:	10/22	10/23	10/24	10/2	5	10/26	10/.	/ 27	10/28
Daily Discharge (gal)		2350	2570	2000	20	610	2330	2	550	2520
Total Flow Year-To-Da	ate (gal)	930,271	932,827	934,801	93	7,391	939,7/7	9	42,260	944,612
Alarms										
Weekly Log Info:	City Obe	als Data		7./			w Rate In, GPI	w]		,
	Site Che	Grounds Che		125/18 V		Flov (P1	or P2) w Rate Out, G or P2)	РМ		
	TGA	Grounds Che	eck	V			Filter PSI Out)			
	SDA	Grounds Che	eck	V			uestering Age	ent	43.5	measured on 10/25/18
	SDA	Plant Check					/ Trench Pum points (On/Of		4.5	140
Site Notes:										

Daily Log Info:	Date:	10/29	10/30	10/31	
Daily Discharge (gal)		2640	2390	3780	
Total Flow Year-To-D	ate (gal)	947,183	949,567		
Alarms					
Weekly Log Info:					
	Site Che	ck Date		10/30/18	Flow Rate In, GPM (P1 or P2)
	NDA Grounds Che		neck		Flow Rate Out, GPM (P1 or P2)
	TGA	Grounds Ch	eck	~	Bag Filter PSI (In/Out)
	SDA	A Grounds Ch	eck	V	Sequestering Agent Level, in.
	SDA	A Plant Check			GW Trench Pump Setpoints (On/Off) 4,5/4.0
Site Notes:					
				. <u></u>	
				. <u> </u>	

			WEEK (OF:			 _				
Daily Log Info:	Date:	11/1/18	11/2		11/3	111	4	11/5	11/6		"/
Daily Discharge (gal)		3780	8970		5030		4130	3630	366	0	3320
Total Flow Year-To-D	ate (gal)	956,134	965,0.	32_	970,012	9	74.096	977,708	981,33		984, 634
Aiarms								,			
Weekly Log Info:										,	
	Site Chec	ck Date		11	15/18			Rate In, GPM or P2)	P1	38	
	NDA	Grounds Che	ck				1	v Rate Out, GF or P2)			
	TGA	Grounds Che	ck		V		Bag (In/C	Filter PSI Out)			
	SDA	Grounds Che	ck		~			uestering Ager el, in.	nt	12.7	11/2/18
	SDA	Plant Check			v			Trench Pump points (On/Off)	<u> </u>	1.5	14.0
Site Notes:		_				<u>-</u> .		-			
11/1	12	Rain									
							· 				

			WEEK	OF:	<u></u>					
Daily Log Info:	Date:	11/8	4/9		11/10	//	/11	11/12	11/3	11/4
Daily Discharge (gal)		3676	334	0	5140	4	1040	3840	3240	3610
Total Flow Year-To-D	ate (gal)	988,253	991,5	60	996,632		000,619	1.004.414		1,011,151
Alarms							, , , , ,		,	, ,
Weekly Log Info:										
. •	Site Chec	ck Date		11	1/14/18		1	Rate In, GPM or P2)		
	NDA	Grounds Che	ck		V			Rate Out, GP or P2)	М	
	TGA	Grounds Che	ck		V		Bag (In/C	Filter PSI Out)		
	SDA	Grounds Che	ck		V		Seq	uestering Ager	nt	
	SDA	Plant Check			/			Trench Pump points (On/Off)	4,5	140
Site Notes:	NYSŢ	EC 51	ite VI	51	·/					

			WEEK	OF:							
Daily Log Info:	Date:	11/15	11/16		11/17	11/	18	11/19	11/2	20	11/21
Daily Discharge (gal)		3310	3030)	3/70	4	4170	4240	1	1050	4070
Total Flow Year-To-D	ate (gal)	1,014,426	1.017	410	1,020,577	1.0	24.662	1,028,842	1,0	334,862	1,036,96
Alarms					, ,		,,,		,		-
Weekly Log Info:											
	Site Che	ck Date		11	/20/18			v Rate In, GPM Ør P2)	t _	36.0	
	NDA	Grounds Che	eck		V			v Rate Out, GF or P2)	M	i	,
	TGA	Grounds Che	ck		V		Bag (In/0	Filter PSI Out)			
	SDA	Grounds Che	ck					uestering Ager el, in.	nt	40.0	11/20/18
	SDA	Plant Check	· -		V			Trench Pump points (On/Off)			
Site Notes:	·										
JILE HOLES.	1/457	EC Site	visit	!	Pays	n L	me	Jerny Pate	?		
		un inte	V. P. (.		1		7	07			

			WEEK	OF:						
Daily Log Info:	Date:	11/22	11/23	3	11/24	116	1 25	11/26	11/27	1128
Daily Discharge (gal)		3810	351	0	3680		5990	7860	7340	5390
Total Flow Year-To-D	ate (gal)	1,040,664	1.04	4111	1,047,774	1.	053,708	1.061,492	1,069,252	
Alarms		, , , , , , ,						, , ,		,
Weekly Log Info:										
	Site Ched	ck Date		10	27/18	;		/ Rate In, GPM or P2)	1	
	NDA	Grounds Che	ck		V			Rate Out, GP or P2)	M	
	TGA	Grounds Che	ck		V		Bag (In/C	Filter PSI Out)		
	SDA	Grounds Che	ck		V			uestering Ager el, in.	nt 38.	3
	SDA	Plant Check			V			Trench Pump points (On/Off)		14.0
Site Notes:				_						
1										

Daily Log Info:	Date:	N/29	11/30	34		
Daily Discharge (gal)		4740	512C	4		
Total Flow Year-To-D	ate (gal)	1,079,269	1,084,367			
Alarms		1 2 4 5 7 7	,)			
Weekly Log Info:						
, == 5	Site Chec	ck Date			Flow Rate In, GPM (P1 or P2)	
	NDA	Grounds Che	ck		Flow Rate Out, GPM (P1 or P2)	
	TGA	Grounds Ched	:k		Bag Filter PSI (in/Out)	-
	SDA	Grounds Ched	:k		Sequestering Agent Level, in.	
	SDA	Plant Check			GW Trench Pump Setpoints (On/Off)	
Site Notes:						
				500 (Sept. 1999) (4	

			WEEK OF:					
Daily Log Info:	Date:	12/1/18	12/2	12/3	24	12/5	12/6	المجار
Daily Discharge (gal)	10.00	5230	798C	6020	4490	4/60	4340	33-60
Total Flow Year-To-D	ate (gal)	1.089.516	1,097,395	1,103,358	1,102,764	1,111,893	1,116,172	1,119,50
Alarms		/						
Weekly Log Info:					Flo	w Rate In, GPM		
	Site Che	ck Date			(P1	or P2)		
	NDA	Grounds Che	ck			Rate Out, GF or P2)	- M	
	TGA	Grounds Che	ck		Bag Filter PSI (In/Out)			
	SDA	Grounds Che	eck			uestering Ager el, in.	nt 37.6	12/5
	SDA	Plant Check				/ Trench Pump points (On/Off		60
Site Notes:		ii.	6.2700	5006				
<u> </u>								_
						<u> </u>	<u>"</u>	
						<u></u>		

WEEK OF:	

Daily Log Info: Date	18/8	12/9	12/10	12/11	12/2	12/13	12/14
Daily Discharge (gal)	3800	33/0	3350	3500	3150	3010	3220
Total Flow Year-To-Date (gal)	1,123,291	1,126.545	1,129,881	1.133,364	1,136,480	1,139,476	1,142,641
Alarms							

Weekly Log Info:

Site Check Date	12/10
NDA Grounds Check	V
TGA Grounds Check	V
SDA Grounds Check	V
SDA Plant Check	V

Flow Rate In, GPM (P1 or P2)	F1 35
Flow Rate Out, GPM (P1 or P2)	33
Bag Filter PSI (In/Out)	
Sequestering Agent Level, in.	36.6
GW Trench Pump Setpoints (On/Off)	4.5/4.0

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Daily Log Info:	Data							- 7
	Date:	15	16		18	19	20	21
aily Discharge (gal)		3/80	3260	2970	3240	3200	2900	9470
otal Flow Year-To-Dat	e (gal)	1\$15794	1,149,045	1.152,007	1.155,207	1,158,377	1,161,240	1,170,642
lams								
Mackle Los Info								oy. 16
Weekly Log Info:	Site Chec	x Date				w Rate In, GPM 1 or P2)	33	P 1
ļ	NDA	Grounds Che	ck		Fic	w Rate Out, GF f or P2)		
-	TGA	Grounds Che	ck		Ва	g Fitter PSI /Out)		
-	SDA	Grounds Che	ck			questering Ager	nt 35.	5 12/20
	SDA	Plant Check			G	W Trench Pump applints (On/Off)	1	
L			7411		<u></u>			
Site Notes:					0.0			
							<u> </u>	

WEEK OF:

aily Discharge (gal)		7740	12/23	12/24	393C	3760	3230	4,060
otal Flow Year-To-I	Date (gal)	1,178,285	1./83 000	1,187,354	1,191,24	8 1,194,970	1,198,149	1,202,151
Varms			,					
Weekly Log Info:								
× -	Site Che	ck Date		12/26/18		ow Rate in, GP 1 or P2)	M 43	P1
	NDA	Grounds Che	ck	1/		low Rate Out, G 21 or P2)	РМ 29	92
	TGA	Grounds Che	ck	1/		ag Filter PSI n/Out)		
	SD/	Grounds Che	ck	V		equestering Agreed, in.	ent 34	to/62.6
	SD/	Plant Check		V		W Trench Pum Setpoints (On/O		
	1	L . 0: 04.	. + m:	w. ((i)	10.000	as Alaur	stering	asent or
Site Notes: (X	canco .	<u>Biog quesa</u>	10- V 7/W	(1.)	Court C.	10		7
Site Notes:	land	kog filte	so + Mi	xed (1)	Arum	ge segue	estering	agent a

	Date:	12/29	12/30	12/3/18			
Daily Discharge (gal)		3630	3,580	3605			_
Total Flow Year-To-Date	(gal)	, 1,205,753	1,209,303	1,212,908			
Alarms							
Weekly Log Info:							
Site Check Date NDA Grounds Che		k Date			Flow Rat (P1 or P2	e In, GPM 2)	8 70 <u>70</u>
		Grounds Che	ck		Flow Rat (P1 or P2	e Out, GPM 2)	
	TGA	Grounds Che	ck		Bag Filte (in/Out)	r PSI	
	ŞDA	Grounds Che	ck			ering Agent	
	SDA	Plant Check				nch Pump s (On/Off)	
Site Notes: Result	a sys	ten an	12/31/2	08			
		_ .					

APPENDIX E IC/EC CERTIFICATION



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No. 828015	Site Details	Box 1	
Sif	e Name Rochester Fire Academy			
Cit Co	e Address: 1190 Scottsville Road y/Town: Rochester unty: Monroe e Acreage: 11.0	Zip Code: 14624		
Re	porting Period: December 31, 2017	to December 31, 2018		
			YES	NO
1.	Is the information above correct?		х	
	If NO, include handwritten above o	r on a separate sheet.		
2.	Has some or all of the site property tax map amendment during this Re	been sold, subdivided, merged, or undergone a eporting Period?		x
3.	Has there been any change of use (see 6NYCRR 375-1.11(d))?	at the site during this Reporting Period		x
4.	Have any federal, state, and/or locator or at the property during this Re	al permits (e.g., building, discharge) been issued eporting Period?		x
		s 2 thru 4, include documentation or evidence eviously submitted with this certification form		
5.	Is the site currently undergoing dev	velopment? (see attachment)		Х
			Box 2	
			YES	NO
6.	Is the current site use consistent with Closed Landfill	ith the use(s) listed below?	Х	
7.	Are all ICs/ECs in place and function	oning as designed?	X	
		R QUESTION 6 OR 7 IS NO, sign and date below HE REST OF THIS FORM. Otherwise continue.	and	
A C	Forrective Measures Work Plan mus	et be submitted along with this form to address t	hese iss	ues.
Sig	nature of Owner, Remedial Party or De	esignated Representative Date		

SITE NO. 828015

Description of Institutional Controls

Parcel

135.180-0001-001.000

<u>Owner</u>

CITY OF ROCHESTER

Institutional Control

Landuse Restriction Monitoring Plan O&M Plan

1998-03 approved OM&M plan to monitor pump and treat system and insure cap and fencing are maintained.

Deed restriction filed March 1998 which required the City of Rochester (or successors and assigns) to maintain the remedial system.

Box 4

Description of Engineering Controls

<u>Parcel</u>

Engineering Control

135.180-0001-001.000

Groundwater Treatment System

Fencing/Access Control

Cover System

Asphalt cover over stebilized salk Training Grounds Area

Cap over the North Disposal Area Groundwater pump and treat system

Monitoring wells

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Periodic Review Report (PRR) Certification Statements

	Tertify by checking 123 below that.			
	 a) the Periodic Review report and all attachments were prepared under the dire reviewed by, the party making the certification; 	ction of,	and	
	b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gene	in this ce rally acc	ertification cepted	
	engineering practices; and the information presented is accurate and compete.	YES	NO	
		X		
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), fo or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below the following statements are true:	r each In at all of th	stitutional he	
	 (a) the Institutional Control and/or Engineering Control(s) employed at this site since the date that the Control was put in-place, or was last approved by the De (see attachment and Section IV.A.2. of Periodic Review Report) (b) nothing has occurred that would impair the ability of such Control, to protect the environment; 	epaπmen	Ľ,	
	(c) access to the site will continue to be provided to the Department, to evaluate remedy, including access to evaluate the continued maintenance of this Control	e the		
	(d) nothing has occurred that would constitute a violation or failure to comply w Site Management Plan for this Control; and	ith the		
	(e) if a financial assurance mechanism is required by the oversight document to mechanism remains valid and sufficient for its intended purpose established in	ior the sit	te, the iment.	
		YES	NO	
		X		
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue	Э.		
	A Corrective Measures Work Plan must be submitted along with this form to address	these is	sues.	
	Signature of Owner, Remedial Party or Designated Representative Date			
_	Signature of Owner, Normodian Farty of Designation Application	-		

IC CERTIFICATIONS SITE NO. 828015

Box 6

i certify that all information and statements in	ATED REPRESENTATIVE SIGNATURE Boxes 1,2, and 3 are true. I understand that a false lass "A" misdemeanor, pursuant to Section 210.45 of the
Joseph Biondolillo at	30 Church Street, Room 300B, Rochester, NY 14614
print name	print business address
Associate Environmental am certifying as <u>City of Rochester, Division</u>	
for the Site named in the Site Details Section	of this form.
Signature of Owner, Remedial Party, or Designature Certification	1-24-2019

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Barton F. Kline print name	at Day Environmental, Inc., 1563 Lyell Ave. Rochester, NY 14606 print business address
am certifying as a Professional Engineer	
	(Owner Remedial Party)
Signature of Professional Engineer, for t	(Company)

Remedial Party, Rendering Certification

(Required for PE)

Site Management Periodic Review Report Notice

Institutional and Engineering Controls Certification Form Attachment

Note: No new permits have been issued for the Site over the current reporting period (12/31/17 – 12/31/18); however, as noted in the 2017 Periodic Review Report (PRR), the City of Rochester issued a permit (#1177364) on 12/1/17 to Monroe County for site preparation for a future storage building at the TGA site. While no further site work was conducted in 2018, this permit remained in effect as of 12/31/18.

Monroe County (lessee of the TGA portion of site) is considering constructing an approximate 50' x 90' pole barn on the TGA for the storage of fire trucks. In anticipation of the project Monroe County started site preparation activities (removing a portion of the concrete slab) in November 2017. The City met with Monroe County on November 29, 2017 to discuss the County's construction plans. The City issued a permit (#1177364) to Monroe County for site preparation for a future storage building at the TGA on 12/1/17. An existing excavation by Monroe County for the planned pole barn (approximately 6-12 inches deep) is protected from rainfall and infiltration via plastic sheeting cover that is to be maintained until construction is completed and a permanent impermeable surface cover is restored to the TGA. For the TGA portion of the site, Monroe County is responsible for "maintaining the facility consistent with the Site Record of Decision and the New York State approved Operations and Maintenance Manual for the Site". No further work has taken place with regard to this portion of the TGA since December 2017. Monroe County has not informed the City of how the County will proceed with this project as of the date of this PRR. Monroe County will be responsible for performing the work in compliance with the existing Record of Decision, Soils Management Plan, Institutional Controls/Engineering Controls for the Site, and other regulatory requirements, as applicable.