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PERIODIC REVIEW REPORT

February 11, 2019 - June 11, 2020

1200 East Main Street ERP- NYSDEC Site Number B00129

City of Rochester, Monroe County, New York

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List of Acronyms

AOC	Area of Concern
AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
FER	Final Engineering Report
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
LNAPL	Light Non-Aqueous Phase Liquid
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
ORP	Oxygen Reduction Potential
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act

List of Acronyms (contd.)

RI/FS	Remedial Investigation/Feasibility
ROD	Record of Decision
RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSDS	Sub-Slab Depressurization System
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VEGE	Vacuum Enhanced Groundwater Extraction

EXECUTIVE SUMMARY

1200 East Main Street Site #B00129, herein referred to as the "Site," is located at 1200 East Main Street in the City of Rochester, Monroe County, New York. The Site is a 0.622-acre parcel and is bounded by residential properties to the north, a vacant lot to the east, East Main Street to the south, and a commercial building to the west (Figure 1).

The City of Rochester (City) is the current owner of the Site and entered into a State Assistance Contract (SAC) on July 23, 2007 to remediate the Site (Contract Number: C303409). Previous environmental assessments and two (2) phases of a subsurface investigation conducted by Bergmann indicated the presence of impacted soil and groundwater at the Site. A detailed summary of investigation findings is provided in the Site Investigation/ Remedial Alternatives Report (Bergmann, September 29, 2005).

The Site was remediated in accordance with the Remedy selected by the New York State Department of Environmental Conservation (NYSDEC) and detailed in the Record of Decision (ROD), dated March 31, 2006. The factors considered during the selection of the Remedy are those listed in 6NYCRR Part 375 1.8(f). The Remedy was performed during four (4) project phases as discussed in the ROD and Final Engineering Report (FER) (Bergmann, November 2018).

The selected Remedy, as discussed in the ROD, broadly includes the following: 1) Source Removal and Groundwater Treatment; 2) Institutional Controls; 3) Engineering Controls; and 4) Groundwater monitoring.

A summary of Remedial Actions completed at the Site is provided in the FER. The effectiveness of the remedial program, as outlined in the Site Management Plan (SMP), is monitored through quarterly groundwater sampling and an annual Site Inspection which are presented in the annual PRR. Post-remedial groundwater data from this Reporting Period (February 11, 2019 – June 11, 2020) indicates Volatile Organic Compounds (VOC) concentrations in exceedance of 6 NYCRR Part 703.5 Class GA Ambient Groundwater Quality Standards at select monitoring wells, but an overall declining trend, with minor fluctuation, of Total VOC concentration during this Reporting Period and since initiation of groundwater monitoring in 2016. SVOCs were detected during the first quarter (Quarter 1, May 2019), with one (1) exceedance for Naphthalene. SVOCs were non-detect during the remainder of the Reporting Period. Refer to the attached Tables 1 – 4 and Contaminant Trend Charts 1 – 6.

The City of Rochester Division of Environmental Quality petitioned the NYSDEC to deactivate the Oxygen Injection System/Soil Vapor Extraction (SVE) System, an Engineering Control (EC), in 2019 to assess the potential for constituent rebound at the Site. NYSDEC approval for deactivation of the systems was received and removal was completed in May 2019. The data indicates that deactivation of the Oxygen Injection System/SVE System did not result in a rebound in VOCs during this Reporting Period. The data suggests that no additional treatment of the Site's groundwater is recommended at this time.

A Change of Use Notification was also submitted to the NYSDEC by the City of Rochester on April 1, 2020. The requested Change of Use involved redevelopment of the Site and adjoining parcels to the east into a new public safety office for the City of Rochester Police Department. The redevelopment involves physical alterations, re-zoning, property line combinations, and other administrative changes that require the review and approval of the NYSDEC. In addition, the City of Rochester also petitioned decommissioning of the existing groundwater monitoring wells and a reduction in sampling frequency.

The City of Rochester received a Change of Use approval letter from the NYSDEC, dated June 17, 2020 and therefore not within this Reporting Period. The approval is contingent on several factors including but not limited to SMP and Excavation Work Plan implementation. The approval letter acknowledged the requested

decommissioning of eleven (11) on-Site groundwater monitoring wells but the NYSDEC did not accept that request in its entirety. The NYSDEC was amenable to a reduction in the number of groundwater monitoring wells as well as reducing the sampling frequency from quarterly to annually for at least two (2) years. The following monitoring wells were approved for decommissioning pursuant to CP-43: MW-2, MW-4, MW-9R, MW-10, MW-15R, and MW-16. Annual groundwater monitoring will continue at MW-1, MW-3, MW-7R, MW-8, and MW-11; therefore, these wells will be either protected during Site development or re-installed post-redevelopment/construction.

The implemented remedies are effective, protective and are progressing towards the Remedial Action Objectives (RAOs) to eliminate or reduce to the extent practicable 1) Exposures of persons at or around the Site to VOCs and SVOCs in soil and groundwater; 2) The release of contaminants from soil into groundwater that may create exceedances of groundwater quality standards; and 3) The release of contaminants from subsurface soil and groundwater into indoor air through soil vapor. The Institutional Controls (ICs) outlined in the Monitoring and Sampling Plan were fully in place and effective during this Reporting Period.

Based on the NYSDEC-approved Change of Use and EC change, a revision to the SMP and resubmission to the NYSDEC for review and approval is required. In addition, an active SSDS will need to be installed in any new structures built as part of redevelopment, as specified in the SMP. The Institutional Control/Engineering Control (IC/EC) Form has been completed as required by the SMP and is included as Appendix D.

1.0 PERIODIC REVIEW REPORT

This Periodic Review Report (PRR) was prepared by Bergmann, on behalf of the City of Rochester, in accordance with the requirements set forth in the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation, dated May 2010. The Reporting Period for this PRR is from February 11, 2019 to June 11, 2020. The following items are included in this PRR:

- Identification, assessment, and certification of all ICs/ECs required by the Remedy for the Site;
- Results of the Site inspection and sampling events including applicable inspection forms and other records generated for the Site during the Reporting Period;
- A summary of any discharge monitoring data and/or information generated during the Reporting Period with comments and conclusions;
- Data summary tables of groundwater Contaminants of Concern by media;
- Laboratory analytical results and the required laboratory data deliverables for each sample collected during the Reporting Period have been and will continue to be submitted electronically in a NYSDEC-approved EQuIS format; and
- A Site evaluation, which includes the following:
    I. The compliance of the Remedy with the requirements of the Site-specific Record of Decision (ROD) including ICs/ECs;
    II. The operation and the effectiveness of each treatment unit, including identification of any needed repairs or modifications;
    III. Any new conclusions or observations regarding Site contamination based on inspection or lab data generated during the monitoring events;
    IV. Recommendations regarding any necessary changes to the Remedy and/or SMP; and

V. The overall performance and effectiveness of the Remedy to date.

2.0 SITE OVERVIEW

The Site is located at 1200 East Main Street in the City of Rochester, Monroe County, New York; near the northwest intersection of East Main and Laura Street. Refer to Figure 1 – Site Location Map. The Site is approximately 0.622-acres and is bounded by residential properties to the north, a vacant lot to the east, East Main Street to the south, and a commercial building to the west. The boundaries of the Site are more fully described in the metes and bounds description of the Environmental Easement as provided in the SMP. The owner of the Site at the issuance of this PRR is the City of Rochester.

Prior to issuance of the ROD, Site Investigation and Interim Remedial Measures (IRM) were completed, as listed below.

Phase I Environmental Site Assessment (ESA) (Bergmann, October 24, 2005)
Phase I Environmental Site Assessment (ESA) was completed for 1200 East Main Street Rochester, New York on behalf of the City of Rochester. The ESA revealed evidence of Recognized Environmental Conditions (RECs) in connection with the Site as noted below:

- Historical activities associated with the Site and its operation as a gas station for approximately 60 years. The Site was currently undergoing remedial activities.
- The Auto Zone property located to the west of the Subject Property and a waste oil tank and remediation activities associated with it.

Remedial Site Investigation – Site Investigation/Remedial Alternatives Report (Bergmann, September 29, 2005)
The Site Investigation was conducted from June 2002 to October 2004 to determine the nature and extent of contamination at the Site. Based on site investigation results, the Contaminants of Concern (COCs) at the Site were determined to be petroleum-related VOCs, petroleum-related SVOCs, metals (arsenic lead, mercury, and silver), and Polychlorinated Biphenyls (PCBs). PCBs, primarily Aroclor 1242, were detected in one (1) off-Site surface soil sample.

Tank and Soil Removal and Building Demolition (June 2000)
Five (5) single-walled steel Underground Storage Tanks (USTs) and associated piping and dispenser pumps were removed and disposed off-site to a permitted facility. The gasoline and diesel USTs consisted of one (1) 3,000-gallon tank, two (2) 4,000-gallon tanks, and two (2) 6,000-gallon tanks. Approximately 700 gallons of gasoline were removed from the USTs and disposed of off-site and approximately 412.5 tons of petroleum contaminated soils were excavated and disposed off-Site at a permitted landfill facility. Confirmatory soil sampling indicated evidence of petroleum impacts remaining in the excavations.

Building Demolition (January 2003)
In January 2003, the City of Rochester demolished the on-Site building. In June 2003, a previously unknown 275-gallon single-walled steel UST was encountered at the Site. Analytical results of sludge remaining in the tank indicated that it contained residual gasoline. The UST was removed and disposed at an off-site permitted disposal facility as well as two (2) 55-gallon drums of sludge/rinse water generated as part of the removal. No soils were removed from the Site in association with this tank removal. Confirmatory samples indicated chrysene above the Site SCOs and no VOCs exceeding the SCOs.

Sub-Slab Depressurization System (SSDS) (May 2004)

In May 2004, a Sub-Slab Depressurization System (SSDS) was installed at a two (2) family privately owned residential building located adjacent to the east of the Site (1214/1216 East Main Street) to address Soil Vapor Intrusion (SVI). The building was demolished in 2016.

Remedy Implementation

The factors considered during the selection of the Remedy are those listed in 6 NYCRR Part 375-1.8. The selected Remedy, as stated in the ROD, for the Site includes:

- A remedial design program to provide the details necessary to implement the remedial program;
- Removal and off-Site disposal of free-phase product from existing groundwater monitoring wells at the Site;
- Removal and off-Site disposal of contaminated overburden soils in source areas at the Site;
- Treatment of dissolved-phase contaminants in groundwater via a direct oxygen injection system or air sparging system;
- Installation of a soil vapor extraction system to recover contaminants that are volatilized into soil gas by the oxygen injection or air sparging system;
- Continued operation and maintenance of the existing sub-slab ventilation system in the basement of the adjacent 1214/1216 East Main Street building to prevent Site-related contaminants from entering the structure;
- Development of a Site Management Plan to address residual contamination and any use restrictions;
- Imposition of Institutional Controls in the form of an Environmental Easement;
- Periodic certification of the Institutional and Engineering Controls; and
- An Operation, Maintenance, and Monitoring program to track remedial progress and confirm its effectiveness.

The selected Site Soil Cleanup Objectives (SCOs) are Commercial Use (including Industrial Use) therefore, remedial confirmatory analytical results were compared to 6 NYCRR Part 375-6.8(a) Unrestricted Use and Part 375-6.8(b) Commercial Use and Industrial Use. Cleanup objectives for groundwater are 6 NYCRR Part 703.5 Class GA Ambient Groundwater Quality Standards and Guidance Values.

Several Remedial Actions (RAs) were completed from 2006 to 2016 in accordance with the ROD. The FER provides a comprehensive summary of the RAs listed below.

- Impacted Surface and Source Area Soil Removal Phase;
- Backfill Characterization from Off-Site Source at 1315 South Plymouth Avenue;
- Contaminant Reduction Action In-Situ Chemical Oxidation (ISCO);
- Source Area Soil Removal Activities;
- Vacuum Enhanced Groundwater Extraction, Oxygen Injection System, Soil Vapor Extraction System Operation; and
- April 2016 Baseline groundwater sampling data was collected prior to the startup of the VEGE system (April 2016).

Note: Remediation Systems Status Reports, dated May- August 2016, September 2016 and October-November 2016 were submitted to NYSDEC and included in the FER.

After completion of the remedial work, some petroleum impacted materials remain as residual contamination left at this Site, which is referred to as "remaining contamination". Institutional and Engineering Controls (ICs/ECs) have been incorporated into the Remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC on March 25, 2016, and recorded with the Monroe County Clerk, requires compliance with the SMP and all ECs/ICs.

ICs are required in the form of an Environmental Easement that includes a) limiting the use and development of the Site to Commercial or Industrial Use; b) compliance with the approved SMP; c) restriction on the use of groundwater as a source of potable water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the Monroe County Health Department (MCHD); and d) Site owner or remedial party to complete and submit an annual certification of ICs/ECs.

Long-term management of the residual impacts, as required by the ROD, includes the following plans for ECs:

- Operation and Maintenance of the Oxygen Injection System and Soil Vapor Extraction System;
- Operation and Maintenance of the Sub-Slab Depressurization System (SSDS) at 1214/1216 East Main Street;
- Groundwater Monitoring; and
- Reporting.

During this Reporting Period, an EC modification, as approved by the NYSDEC, included the deactivation and removal of the Oxygen Injection System/SVE System and its associated trailer. The purpose of the system removal was to evaluate the potential for constituent concentration rebound in groundwater. Refer to Appendix F for the NYSDEC approval letter, dated March 18, 2019. Per NYSDEC correspondence, a formal 6-day Notification for Change of Use was not required for removal of the Systems based on (i) no change in Remedial Party(ies); (ii) the Certificate of Completion (COC) was not being transferred; and (iii) The Site was not physically altered or changing use. Correspondence is provided in Appendix F.

Matrix Environmental Technologies, Inc. completed the work on May 28 and 31, 2019 and included the following tasks:

- Soil Vapor Extraction System: Disconnection of the electrical service and piping to the extraction wells and off-Site removal of the vapor extraction system enclosure.
- Oxygen Injection System: Disconnection of the electrical service and piping to the injection wells and removal of the trailer-mounted system.

Refer to Appendix F for a brief summary letter completed by Matrix Environmental Technologies, Inc. It is noted that no injection wells and soil vapor extraction trenches were removed as part of the system deactivation.

A Change of Use Notification was submitted to the NYSDEC during this Reporting Period by the City of Rochester on April 1, 2020. The requested Change of Use involved redevelopment of the Site and adjoining parcels to the east into a new public safety office for the City of Rochester Police Department. The City of Rochester petitioned decommissioning of existing groundwater monitoring wells and reduced sample frequency.

The City of Rochester received a Change of Use approval letter from the NYSDEC, dated June 17, 2020 and therefore, not within this Reporting Period. The approval is contingent on several factors including but not limited to SMP and Excavation Work Plan implementation. The approval letter acknowledged the requested decommissioning of eleven (11) on-Site groundwater monitoring wells but the NYSDEC did not accept that request in its entirety. The NYSDEC was amenable to a reduction in the number of groundwater monitoring wells as well as reducing the sampling frequency from quarterly to annually for at least two (2) years. The following monitoring wells were approved for decommissioning pursuant to CP-43: MW-2, MW-4, MW-9R, MW-10, MW-15R, and MW-16. Annual groundwater monitoring will continue at MW-1, MW-3, MW-7R, MW-8, and MW-11; therefore, these wells will be either protected during Site development or re-installed post-redevelopment/construction. Refer to Appendix G for Change of Use documentation.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Post-remedial groundwater sampling indicates that VOCs persist at the Site with several VOC constituents in exceedance of 6NYCRR Part 703.5 Class GA Ambient Groundwater Quality Standards. No significant and/or atypical constituent fluctuations in groundwater have occurred since the May 2019 deactivation of the oxygen injection system and SVE system, as approved by the NYSDEC.

Four (4) post-remedial groundwater sampling events were completed by the City of Rochester Division of Environmental Quality (DEQ) during this Reporting Period (February 11, 2019 – June 11, 2020). Four (4) Quarterly Reports were also completed by DEQ for submission to the NYSDEC. The Quarterly Reports are attached as Appendix E. All groundwater sampling rounds in this Reporting Period were completed post-oxygen injection system removal and SVE deactivation.

The four (4) post-remedial groundwater sampling events occurred on the following dates within this Reporting Period:

- Quarter 1 – May 2, 2019
- Quarter 2 – August 1 – 2, 2019
- Quarter 3 – November 6 – 7, 2019
- Quarter 4 – February 20 – 21, 2020

Sampling was completed at MW-1, MW-2, MW-3, MW-4, MW-7R, MW-8, MW-9R, MW-11, MW-15R, and MW-16. Sampling logs are provided in Appendix B. All samples were submitted for analysis of TCL VOCs by EPA Method 8260 and TCL SVOCs by EPA Method 8270 at a certified NYSDOH Environmental Laboratory Approval Program (ELAP) laboratory, Paradigm Environmental, Inc. MW-10 was not sampled because it was damaged/unusable, and groundwater was inaccessible.

Tables 1 and 2 summarize analytical VOC and SVOC detections in exceedance of Part 703.5 Class GA Ambient Groundwater Quality Standard during this Reporting Period. Tables 3 and 4 indicate concentrations, including exceedances, of Total VOCs and Total Benzene since initiation of the groundwater monitoring in 2016. Analytical reports are provided in Appendix C.

Contaminant Trend Charts 1 – 6 display data to show overall trends for Total VOC and benzene concentration in monitoring wells with contaminant detections during this Reporting Period.

Figures 3 – 6 illustrate constituent exceedances and groundwater contour lines for each sample quarter of this

Reporting Period.

The following summarizes the analytical findings for this Reporting Period. Refer to the attached tables, charts, and figures that illustrate the findings in detail.

VOCs

- MW-1 (Source Area) – Fluctuation occurred during this Reporting Period. Exceedances in several petroleum-related VOCs including BTEX in May 2019, November 2019, and February 2020. No exceedances were detected in August 2019. Ethylbenzene was detected at the highest concentration, within this Reporting Period, of 84.0 micrograms/liter (µg/L) in February 2020. The Concentration of Benzene has remained slightly in exceedance of the applicable standard, but stable.
- MW-2 –No VOCs detected in May 2019, November 2019, February 2020. Not sampled in August 2019 due to lack of groundwater.
- MW-3 (Source Area) – An overall declining trend in VOCs occurred during this Reporting Period. Slight exceedances in Benzene, Ethylbenzene, and/or Isopropylbenzene in May 2019, August 2019, and November 2019. One (1) exceedance in Benzene in February 2020. The Concentration of Benzene has remained slightly in exceedance of the applicable standard, but stable.
- MW-4 (Source Area) – The Total VOC concentration declined then increased during this Reporting Period. Exceedances of Benzene, Ethylbenzene, and m,p-Xylenes occurred in May 2019 and February 2020. One (1) exceedance occurred in Benzene in August 2019. MW-4 was not sampled in November 2019 due to lack of groundwater.
- MW-7R (Source Area) – The Total VOC concentration declined during this Reporting Period. Exceedances in several VOCs in May 2019 and February 2020. Exceedances in MTBE and Benzene were detected in August 2019 and November 2019, respectively. The concentration of benzene slightly increased during this Reporting Period.
- MW-8 (Cross-gradient) – The Total VOC concentration and Benzene declined to non-detect during this Reporting Period. Slight exceedances in Benzene and MTBE in May 2019; no VOCs detected in February 2020. Not sampled in August 2019 and November 2019 due to lack of groundwater.
- MW-9R (Source Area) – No VOCs detected in May 2019, August 2019, November 2019, and February 2020.
- MW-10 (Cross-gradient) – Not sampled during this Reporting Period as groundwater was inaccessible.
- MW-11 (Downgradient) – The Total VOC concentration increased then declined during this Reporting Period. Slight exceedances in Benzene, Ethylbenzene, and m,p-Xylene in May 2019, August 2019, November 2019, and February 2020.
- MW-15R (Upgradient) – A declining trend of Total VOC concentration and Benzene occurred during this Reporting Period. Several VOCs were detected in exceedance of the applicable Part 703.5 standard including Benzene and Ethylbenzene in May 2019, August 2019 and November 2019. No VOCs in exceedance of Part 703.5 standard detected in February 2020.
- MW-16 (Cross-gradient) – No VOCs detected in May 2019, August 2019, November 2019, and February 2020

Approximate Total VOC concentration percent reductions during this Reporting include the following:

- 46% reduction at MW-3

- 61% reduction at MW-7R
- 96% reduction at MW-15R

No detections and/or minimal detections occurred at MW-2, MW-8, MW-9R, and MW-16. MW-1, MW-3, and MW-4 had fluctuations in Total VOC concentrations with MW-1 having significant fluctuation.

Historic VOC Concentration and Benzene

An overall trend of declining concentrations of Total VOCs and Total Benzene has occurred since initiation of groundwater monitoring at the Site in November 2016 to February 2020. Refer to the attached Tables 3 and 4. Approximate Total VOC Concentration percent reductions include the following:

- 85% reduction at MW-3
- 96% reduction at MW-4
- 65% reduction at MW-7R
- 100% reduction at MW-8
- 47% reduction at MW-11
- 98.5% reduction at MW-15R (Note: March 2017- February 2020).

SVOCs

One (1) SVOC, Naphthalene, was detected in exceedance of the Part 703.5 standard at MW-7R in May 2019; no additional exceedances occurred during this Reporting Period. SVOCs have not been detected in samples since May 2019 and have not rebounded since the oxygen injection system/SVE System was deactivated in 2019.

Conclusion

The data indicate that deactivation of the oxygen injection system/SVE System did not result in a rebound in VOC concentrations. Continued concentration reductions in Total VOCs, with minor fluctuation, occurred at most monitoring wells with the exception of MW-1 which continues to fluctuate in Total VOC concentrations as it has historically since 2016. Therefore, the Remedy is effective in achieving Remedial Action Objectives (RAOs). In addition, deactivation of the Oxygen Injection System/SVE System in May 2019 does not appear to affect the petroleum-related VOC degradation trend as indicated by the date from this Reporting Period, specifically at source area and downgradient monitoring wells. A continued decline in VOCs in groundwater will also be facilitated by natural attenuation.

4.0 INSTITUTIONAL CONTROLS/ENGINEERING CONTROL PLAN COMPLIANCE

As required by the Environmental Easement, ICs/ECs are required to protect human health and the environment from remaining contamination in subsurface soil and groundwater at the Site.

Institutional Controls

A series of ICs are required by the ROD to: 1) implement, maintain and monitor Engineering Control systems; 2) prevent future exposure to remaining contamination; and, 3) limit the use and development of the Site to restricted commercial or industrial uses only. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. These ICs are:

- The property may be used for restricted commercial or industrial uses;

- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or MCHD render it safe for use as drinking water or for industrial purpose, and the user must first notify and obtain written approval to do so from the NYSDEC;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the Remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure #9, and any potential impacts that are identified must be monitored or mitigated;
- If parcel 1214-1216 East Main Street is developed in the future, a SVI evaluation should be completed; and
- Vegetable gardens and farming on the Site are prohibited.

IC performance measures include IC changes or lack thereof to the Site that occur during the Reporting Period. The ICs at the Site were not disturbed during this Reporting Period. No permits or unauthorized uses were issued to the Site during this reporting period.

Engineering Controls (ECs)

Oxygen Injection System and Soil Vapor Extraction System

Approval from the NYSDEC to deactivate the Oxygen Injection System/Soil Vapor Extraction System was received in March 2019, as such, this EC is not applicable during this Reporting Period. The purpose of the deactivation was to evaluate the rebound potential for contaminants of concern, including petroleum-related VOCs and SVOCs, at the Site.

The Oxygen Injection System and soil vapor extraction trench were a temporary control and the quality and integrity of this systems were inspected as per the O&M Plan presented as Appendix 4 of the SMP. The location of the former oxygen injection system and soil vapor extraction trench are shown on Figure 12 of the SMP. Site

visits for routine O&M and optimization of the oxygen injection and soil vapor extraction systems were completed once per month prior to deactivation and removal. Equipment inspection and maintenance was completed quarterly, or more frequently as needed.

A modification to the well design (Vacuum Enhanced Groundwater Extraction (VEGE)) and schedule of system operations was proposed in the April 27, 2016 addendum to the Remedial Action Work Plan (RAWP) so that nine (9) separate wells were installed for the VEGE system and twelve (12) separate wells installed for the oxygen injection system. The modification allowed for (1) the VEGE wells to intercept the top of the water table with the potential to increase LNAPL and VOC vapor recovery during the initial months of operation and; (2) a decrease in the amount of time required for active remediation by expediting conversion between the two (2) remediation methods.

The oxygen injection system was checked once per month by a qualified technician to record operating parameters and perform routine maintenance. Once each month the technician collected performance data which includes DO and ORP readings at each injection point and designated monitoring wells. Detailed Performance Monitoring Goals are documented in Section 5.2.2. of the SMP.

Sub-Slab Depressurization System (SSDS)

The former off-Site SSDS located at 1214/1216 East Main Street was destroyed when the residential building was demolished in December 2016. The PRR will be revised accordingly when the Site and/or 1214/1216 East Main Street parcel is re-developed to include any Engineering Control requirements at that time.

EC modifications during this Reporting Period were approved and supervised by the NYSDEC. ICs were fully in place and effective. No deficiencies were present and therefore, no corrective measures are recommended. Documentation with respect to the decommissioning of the Oxygen Injection System/SVE System is provided as Appendix F. No structures had been constructed on Site. A Change of Use, which also involved monitoring well decommissioning and sample frequency reduction was requested by the City of Rochester during this Reporting, however, the request was approved by the NYSDEC after the Reporting Period concluded. Refer to Appendix A and Appendix G. The required IC/EC certification has been completed as a component of this report and a copy is included as Appendix D.

5.0 MONITORING PLAN COMPLIANCE REPORT

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the Remedy to reduce remaining contamination and be effective and protective of public health and the environment.

This Monitoring Plan may only be revised with the approval of the NYSDEC. Details regarding the sampling procedures, data quality usability objectives, analytical methods, etc. for all samples collected as part of site management for the Site are included in the SMP (Quality Assurance and Quality Control Plan in Appendix #5 and Quality Assurance Project Plan (QAPP) provided in Appendix #6 of the SMP).

Monitoring/Inspection Schedule

Monitoring Program	**Frequency**[1]	**Matrix**	**Analysis**
Groundwater Monitoring	Quarterly	Groundwater	TCL VOCs by EPA Method 8260 TCL SVOCs by EPA Method 8270

Monitoring Program	Frequency[1]	Matrix	Analysis
Site Inspection	Annual[2]	N/A	N/A
SSDS[3]	TBD	Soil Vapor/Air	TBD

1- The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.
2- Site Inspections will be completed in the event of an emergency (e.g. natural disaster) that may compromise the integrity of ECs.
3- SSDS Monitoring/Inspection Schedule will be revised accordingly when the Site and/or 1214/1216 East Main Street parcel are re-developed.

Post-Remediation Groundwater Monitoring and Sampling

Groundwater monitoring is performed quarterly pursuant to the SMP to assess the Remedy. The sampling program is summarized below.

Sampling Location	Analytical Parameters		Schedule
	TCL VOCs	TCL SVOCs	
Monitoring Well MW-1	X	X	Quarterly
Monitoring Well MW-2	X	X	Quarterly
Monitoring Well MW-3	X	X	Quarterly
Monitoring Well MW-4	X	X	Quarterly
Monitoring Well MW-7R	X	X	Quarterly
Monitoring Well MW-8	X	X	Quarterly
Monitoring Well MW-9R	X	X	Quarterly
Monitoring Well MW-10*	X	X	Quarterly
Monitoring Well MW-11	X	X	Quarterly
Monitoring Well MW-12 (off-Site)	X	X	Per NYSDEC
Monitoring Well MW-13 (off-Site)	X	X	Per NYSDEC
Monitoring Well MW-14 (off-Site)	X	X	Per NYSDEC
Monitoring Well MW-15R	X	X	Quarterly
Monitoring Well MW-16	X	X	Quarterly

*MW-10 not sampled during this Reporting Period.

The network of monitoring wells has been installed to monitor upgradient, on-Site, and downgradient groundwater conditions at the Site. It is noted that MW-10 is damaged/unusable and no groundwater was accessible at this well during this Reporting Period.

During this Reporting Period, monitoring wells were sampled in May 2019, August 2019, November 2019, and February 2020. Groundwater samples were collected using low-flow sampling techniques pursuant to the SMP and in accordance with Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. During groundwater purging, water quality parameters were recorded at five (5) minute intervals. These water quality indicator parameters included: Depth to Groundwater; Temperature, pH, Dissolved Oxygen, Specific Conductance, Oxidation Reduction Potential, and Turbidity. Samples, including QA/QC samples, were collected once groundwater quality indicator parameters stabilized for at minimum three (3) readings. Groundwater sampling logs are provided as Appendix B. It is noted that any well that was determined dry was noted in the logs.

The samples were relinquished under Chain of Custody procedures to Paradigm Environmental, a NYSDOH ELAP-certified laboratory.

VOC and SVOC groundwater analytical data, including applicable Part 703.5 standard exceedances, are summarized in Tables 1 and 2 and in Figures 3-6. Total VOC and Total Benzene Concentrations are summarized in Tables 3 and 4 and also displayed in Contaminant Trend Charts 1 – 6. Figures 3-6 provide groundwater contours for each sampling event during this Reporting Period based on Depth to Water (DTW) field measurements at each well. A summary of the analytical results for each sampling event within this Reporting Period is provided below. Refer to the attached Tables 1-4 for additional details.

May 2019

VOCs

Part 703.5 concentration exceedances in VOCs, primarily BTEX, occurred at Source Area wells: MW-1, MW-3, MW-4, and MW-7R and upgradient well MW-15R. Slight exceedances in VOCs occurred at cross-gradient wells MW-8 (cross-gradient) and MW-11 (downgradient). No VOC detections occurred at MW-2 (source area), MW-9R (source area), and MW-16 (cross-gradient).

SVOCs

Naphthalene slighted exceeded the applicable Part 703.5 standard at MW-7R at a concentration 10.3 µg/L. 2-Methylnaphthalene was also detected at MW-7R; there is no standard value for this constituent. The standard is 10.0 µg/L. Naphthalene was also detected at MW-1 at 8.08 µg/L, below the standard.

August 2019

VOCs

No VOC exceedances occurred at MW-1 (source area). Total VOC concentrations declined between May 2019 and August 2019 at MW-1 (source area), MW-4 (source area), MW-7R (source area), and MW-15R (upgradient). MW-9R and MW-16 had no VOC detections. MW-3 (source area) and MW-11 (downgradient) had increased concentrations of Total VOCs between May - August 2019.

SVOCs

No SVOCs were detected.

November 2019

VOCs

Total VOC concentrations decreased at the following wells between August - November 2019: MW-3, MW-4, MW-7R, which are all source area wells as well as downgradient well MW-11 and upgradient well MW-15R. Total VOC concentrations increased at the source area well MW-1. MW-2, MW-9R, and MW-16 were all non-detect for VOCs.

SVOCs

No SVOCs were detected.

February 2020

VOCs

The Total VOC concentration significantly increased at MW-1 (source area) between November 2019 and February 2020 from 87.44 µg/L to 254.48 µg/L. This increase is attributed to increased concentrations of Ethylbenzene and m,p-Xylene as well as Cyclohexane and Methylcyclohexane. MW-4 (source area) also had an increased

concentration of Total VOCs between November 2019 and February 2020 (0.0 µg/L to 28.5 µg/L). Decreased concentrations occurred at MW-3, MW-11, and MW-15R. Non-detections occurred at MW-2, MW-9R, and MW-16.

SVOCs

No SVOCs were detected.

Conclusion

VOC concentrations in exceedance of the applicable standard/guidance value persist, but a relatively stable and low concentrations at the Site. An overall trend of declining concentrations of VOC concentrations has occurred at several wells during this Reporting Period and since initiation of groundwater monitoring at the Site in 2016. No rebound in VOC concentrations appears to have resulted from deactivation of the Oxygen Injection System/SVE System. Refer to the attached Tables 3 and 4 and Contaminant Trend Charts 1 – 6.

Approximate Total VOC percent reductions during this Reporting include the following:

- 46% reduction at MW-3
- 61% reduction at MW-7R
- 96% reduction at MW-15R

No VOC detections and/or minimal detections occurred at MW-2, MW-8, MW-9R, and MW-16.

The most significant fluctuation in Total VOC concentration occurred at MW-1 during this Reporting Period which increased from 35.82 µg/L in August 2019 to 254.45 µg/L in February 2020 resulting from increases primarily in Cyclohexane, Ethylbenzene, and m,p-Xylene. However, a significant decrease in Total VOCs also occurred between May 2019 and August 2019 at MW-1; MW-1 has historically fluctuated in Total VOCs since 2016. The remainder of the monitoring wells, including MW-3, MW-4, and MW-11 showed minor fluctuation in Total VOC concentration in comparison to MW-1. Benzene concentrations appear to remain stable and/or non-detect. SVOC detections have not occurred since May 2019. Continued decline in Total VOCs is anticipated due to natural attenuation.

The Groundwater Monitoring Program is compliant with the SMP during this Reporting Period.

6.0 CONCLUSIONS AND RECOMMENDATIONS

SMP Compliance

The requirements and regulations set forth in the SMP for ICs were adhered to during this reporting period. This includes the following:

- Land Use Restriction – The Site is vacant and has met the requirements of this restriction in this Reporting Period.
- Groundwater Use Restriction – The Site is vacant and no groundwater is used; therefore the requirement is met during this Reporting Period.
- Site Management Plan (SMP) – The Site is currently in compliance with all components of the Site-specific SMP and all requirements have been met during this reporting period.

The requirements set forth in the SMP for all ECs were met with NYSDEC-approved modifications to deactivation of the Oxygen Injection System/SVE System.

Performance and Effectiveness

An evaluation of the components of the SMP during this Reporting Period indicates that, as of the end date of this report, the IC/EC controls were protective of human health and the environment. VOC concentrations in groundwater samples have overall been reduced with some fluctuation between sampling events. Implementation of the monitoring plan sufficiently complied with performance of the remedy.

Recommendations for Future PRR

It is recommended that the next PRR incorporate all items associated with the NYSDEC-approved Site Change of Use. Such items include Site redevelopment, decommissioning of select monitoring wells as well as a reduction in sampling frequency from quarterly to annual as approved by the NYSDEC on June 17, 2020. In addition, the SMP requires revision and resubmission to the NYSDEC to reflect the EC change and Change of Use approval including groundwater sampling program changes. The SMP will also be revised upon completion of Site redevelopment and all elements of the SMP will be implemented during construction. This includes but is not limited to SSDS operation and maintenance in any new structures associated with redevelopment.

It is recommended that the next PRR, as well as the revised SMP, be submitted approximately one (1) year from issuance of this document and/or as specified by the NYSDEC. Groundwater sampling will be completed once during the upcoming Reporting Period and it is recommended that the next sampling event occur in November 2020 or July 2021. A discussion with respect to annual sample timing, such as alternating quarters, should occur with the NYSDEC.

TABLES

Periodic Review Report 2019-2020
Groundwater Analytical Results
1200 East Main St. ERP #B-00129-8
City of Rochester
Monroe County, NY

Table 1 - TCL VOC Groundwater Sample Results

Detected Parameters[1]	NYS Groundwater Standard Class GA[2]	MW-1				MW-2				MW-3				MW-4				MW-7R			
	Date Sampled:	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20
EPA 8260 - Volatile Organics																					
Acetone	50*	ND	34.7	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzene	1	7.27	ND	4.28	5.28	ND	NS	ND	ND	2.45	2.03	6.85	2.11	0.68	3.09	NS	4.78	2.72	ND	1.99	6.7
Bromochloromethane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Bromodichloromethane	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Carbon disulfied	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Cloroethane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Cyclohexane	-	31.8	ND	39.0	70.9	ND	NS	ND	ND	ND	2.01	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Dibromochloromethane	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Ethylbenzene	5	73.8	1.12	14.0	84.0	ND	NS	ND	ND	2.01	ND	3.15	ND	5.05	ND	NS	19.5	26.9	ND	ND	21.4
Freon 113	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	
Isopropylbenzene	5	4.02	ND	4.2	6.48	ND	NS	ND	ND	4.18	25.5	5.74	2.53	1.45	ND	NS	ND	2.35	ND	ND	2.32
m,p-Xylene	5	41.1	ND	10.1	48.5	ND	NS	ND	ND	ND	ND	2.59	ND	1.02	ND	NS	4.17	28.8	ND	ND	5.05
Methyl acetate	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Methyl tert-butyl Ether	10	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	48.7	34.2	ND
Methylcyclohexane	-	8.77	ND	12	29.4	ND	NS	ND	ND	ND	ND	11.7	ND	ND	ND	NS	ND	1.52	ND	ND	2.75
Naphthalene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
o-Xylene	5	5.02	ND	3.86	7.64	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	3.24	ND	ND	1.58
p-Isopropyltoluene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
tert-Butylebenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Toluene	5	1.4	ND	ND	2.28	ND	NS	ND	ND	ND	ND	1.14	ND	ND	ND	NS	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Total VOCs	-	173.18	35.82	87.44	254.48	0	NS	ND	ND	8.64	29.54	18.33	4.64	8.2	3.09	NS	28.45	65.53	48.7	36.19	39.8

1 - All values presented in micrograms per liter (ug/L)
2 - NYS Ambient Groundwater Standard (6 NYCRR Part 703.5)

~Parameter detected above 6 NYCRR Part 703.5 Class GA Ambient Groundwater Quality Standard or applicable Guidance Value

NS Not Sampled

* - NYSDEC Guidance Value
J- Result estimated between quantitation limit and half the quantitation limit
< - Analyzed for but not detected at or above the quantitation limit.

Lab Reports: 191889, 193715, 195546, and 200801

Periodic Review Report 2019-2020
Groundwater Analytical Results
1200 East Main St. ERP #B-00129-8
City of Rochester
Monroe County, NY

Table 1 - TCL VOC Groundwater Sample Results

Detected Parameters[1]	NYS Groundwater Standard Class GA[2]	MW-8				MW-9R				MW-10				MW-11				MW-15R				MW-16			
	Date Sampled:	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20
EPA 8260 - Volatile Organics																									
Acetone	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	1.12	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	1.41	0.912	.84	3.85	1.73	3.11	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfied	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cloroethane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	4.72	13.0	10.2	5.41	45.3	19.0	7.55	3.3	ND	ND	ND	ND
Freon 113	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	1.73	1.25	1.33	ND	ND	ND	ND	ND
m,p-Xylene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	2.62	6.44	6.27	ND	29.5	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl Ether	10	1.56	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	1.71	ND	ND	ND	ND	ND	ND	ND
Naphthalene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	1.38	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylebenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	-	2.68	NS	NS	0	0	0	0	0	NS	NS	NS	NS	7.34	20.85	17.38	9	83.47	21.98	11.99	3.3	0	0	0	0

1 - All values presented in micrograms per liter (ug/L)

2 - NYS Ambient Groundwater Standard (6 NYCRR Part 703.5)

~Parameter detected above 6 N

NS Not Sampled

* - NYSDEC Guidance Value

J- Result estimated between quantitation limit and half the quantitation l

< - Analyzed for but not detected at or above the quantitation limit.

Lab Reports: 191889, 193715, 195546, and 200801

Table 2 - SVOC (Acid/Base Neutrals) Groundwater Sample Results

Detected Parameters[1]	NYS Groundwater Standard Class GA[2]	MW-1				MW-2				MW-3				MW-4				MW-7R			
	Date Sampled:	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20
EPA 8270- Semi-Volatile Organics																					
1,1-Biphenyl	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
2,2-Oxybis (1-chloropropane)	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
2-Chloronaphthalene	10*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
2-Methylnapthalene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	9.29 J	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
4-Chloroaniline	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Acenaphthene	20*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Acenaphthylene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Acetophenone	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Anthracene	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Atrazine	7.5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzaldehyde	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzo (a) anthracene	0.002*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzo (a) pyrene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	0.002*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzo (g,h,i) perylene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phtalate	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Butylbenzylphthalate	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Caprolactam	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Carbazole	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Chrysene	0.002*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Dibenz (a,h) anthracene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Dibenzofuran	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Diethyl phthalate	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Dimethyl phthalate	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Di-n-octylphthalate	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Fluoranthene	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Fluorene	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Hexachlorobutadiene	0..5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	0.002*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Isophorone	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Naphthalene	10*	8.08 J	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	10.3	ND	ND	ND
Nitrobenzene	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Phenanthrene	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Pyrene	50*	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Total	-	8.08	0	0	0	0	NS	0	0	0	0	0	0	0	0	NS	0	19.59	0	0	0

1 - All values presented in micrograms per liter (ug/L)

2 - NYS Ambient Groundwater Standard (6 NYCRR Part 703.5)

	~Parameter detected above 6 NYCRR Part 703.5 Class GA Ambient Groundwater Quality Standard or applicable Guidance Value
NS	Not Sampled

Lab Reports: 191889, 193715, 195546, and 200801

* - NYSDEC Guidance Value

J- Result estimated between quantitation limit and half the quantitation limit

< - Analyzed for but not detected at or above the quantitation limit.

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Table 2 - SVOC (Acid/Base Neutrals) Groundwater Sample Result

Detected Parameters[1]	NYS Groundwater Standard Class GA[2]	MW-8				MW-9R				MW-10				MW-11				MW-15R				MW-16			
Date Sampled:		May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20	May-19	Aug-19	Nov-19	Feb-20
EPA 8270- Semi-Volatile Organics																									
1,1-Biphenyl	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Oxybis (1-chloropropane)	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnapthalene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	7.5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) anthracene	0.002*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) pyrene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	0.002*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g,h,i) perylene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethoxy) methane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (2-chloroethyl) ether	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis (2-ethylhexyl) phtalate	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz (a,h) anthracene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0..5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	0.002*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	6.34 J	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50*	ND	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total	-	0	NS	NS	0	0	0	0	0	NS	NS	NS	NS	0	0	0	0	6.34	0	0	0	0	0	0	0

1 - All values presented in micrograms per liter (ug/L)

2 - NYS Ambient Groundwater Standard (6 NYCRR Part 703.5)

-Parameter detected above 6

NS Not Sampled

* - NYSDEC Guidance Value

J- Result estimated between quantitation limit and half the quantitation li

< - Analyzed for but not detected at or above the quantitation limit.

Lab Reports: 191889, 193715, 195546, and 200801

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Table 3- Total VOC Concentrations (Retrieved from the City of Rochester 4th Quarterly Report)

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16
Date	Total VOCs										
Nov-16	163.08	13.80	30.60	701.30	112.98	59.28	0.00	NS	16.90	2.00	0.98
Mar-17	305.10	0.00	43.45	122.50	32.40	0.00	0.00	0.00	26.70	222.30	2.30
Aug-17	246.60	0.00	29.81	32.27	21.16	0.00	0.00	NS	63.69	182.13	0.00
Nov-17	0.00	0.00	5.84	8.74	15.34	0.00	0.00	NS	28.54	164.00	0.00
Mar-18	364.54	0.00	6.28	135.91	199.30	0.00	0.00	0.00	56.97	144.66	0.00
Oxygen injection system shut off March, 2019											
May-19	173.18	0.00	8.64	8.20	65.53	2.68	0.00	NS	7.34	83.47	0.00
Aug-19	35.82	NS	29.54	3.09	48.70	NS	0.00	NS	20.85	21.98	0.00
Nov-19	87.44	0.00	18.33	0.00	36.19	NS	0.00	NS	17.38	11.99	0.00
Feb-20	254.48	0.00	4.64	28.45	39.80	0.00	0.00	NS	9.00	3.30	0.00

Notes:
ND (X) denotes that the compound was analyzed but not detected at or above the quantitation limit (X)
NS denotes that the well was not sampled

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Table 4- Benzene Concentrations (Retrieved from City of Rochester 4th Quarterly Report)

Monitoring Well / Date	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5
	Benzene											
Nov-16	0.86	**1.80**	**20.70**	**47.00**	**53.90**	ND (1.0)	ND (1.0)	NS	**2.80**	ND (1.0)	ND (1.0)	**1.0**
Mar-17	**13.00**	ND (1.0)	**2.10**	**7.00**	0.72	ND (1.0)	ND (1.0)	ND (1.0)	**2.10**	**4.80**	ND (1.0)	**1.0**
Aug-17	**7.03**	ND (1.0)	**5.65**	**1.76**	**1.12**	ND (1.0)	ND (1.0)	NS	**4.85**	**4.68**	ND (1.0)	**1.0**
Nov-17	ND (1.0)	ND (1.0)	**1.67**	0.81	ND (1.0)	ND (1.0)	ND (1.0)	NS	**2.30**	**4.70**	ND (1.0)	**1.0**
Mar-18	**5.04**	ND (1.0)	0.99	**7.87**	**1.83**	ND (1.0)	ND (1.0)	ND (1.0)	0.60	**4.72**	ND (1.0)	**1.0**
Oxygen injection system shut off March, 2019												
May-19	**7.27**	ND (1.0)	**2.45**	0.68	**2.72**	**1.12**	ND (1.0)	NS	ND (1.0)	**3.85**	ND (1.0)	**1.0**
Aug-19	ND (1.0)	NS	**2.03**	**3.09**	ND (1.0)	NS	ND (1.0)	NS	**1.41**	**1.73**	ND (1.0)	**1.0**
Nov-19	**4.28**	ND (1.0)	**6.85**	NS	**1.99**	NS	ND (1.0)	NS	0.912	**3.11**	ND (1.0)	**1.0**
Feb-20	**5.28**	ND (1.0)	**2.11**	4.78	**6.7**	ND (1.00)	ND (1.0)	NS	0.84	ND (1.0)	ND (1.0)	**1.0**

Notes:
ND (X) denotes that the compound was analyzed but **not detected** at or above the quantitation limit (X)
NS denotes that the well was not sampled
* **Bold & underlined** font denotes a Benzene detection exceeding NYSDEC Part 703.5 Groundwater standards.

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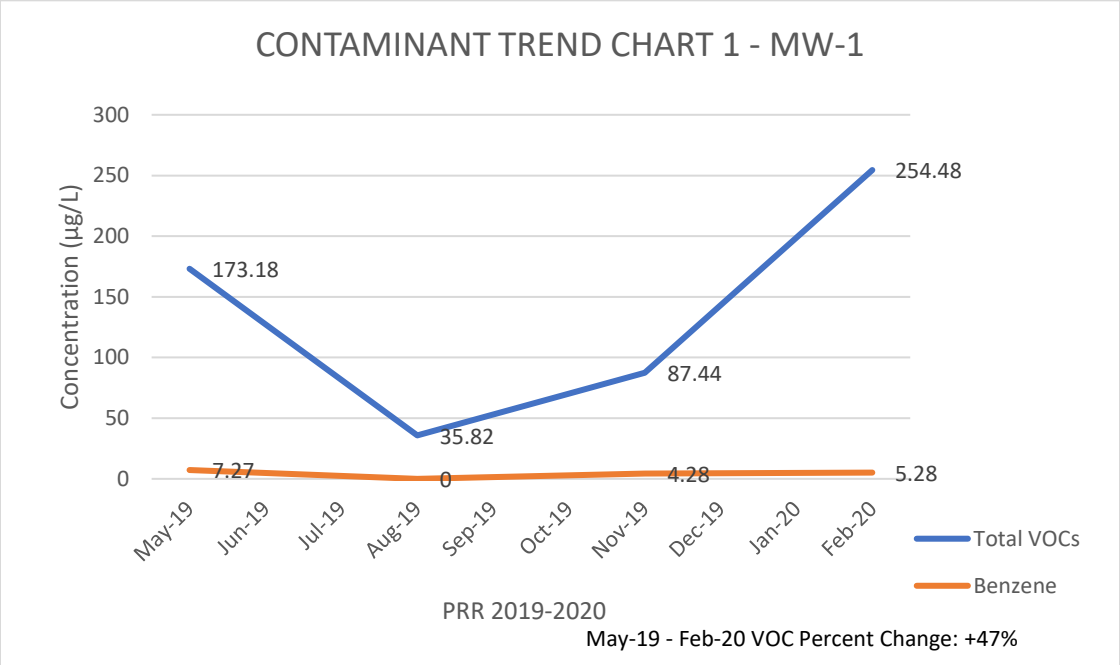
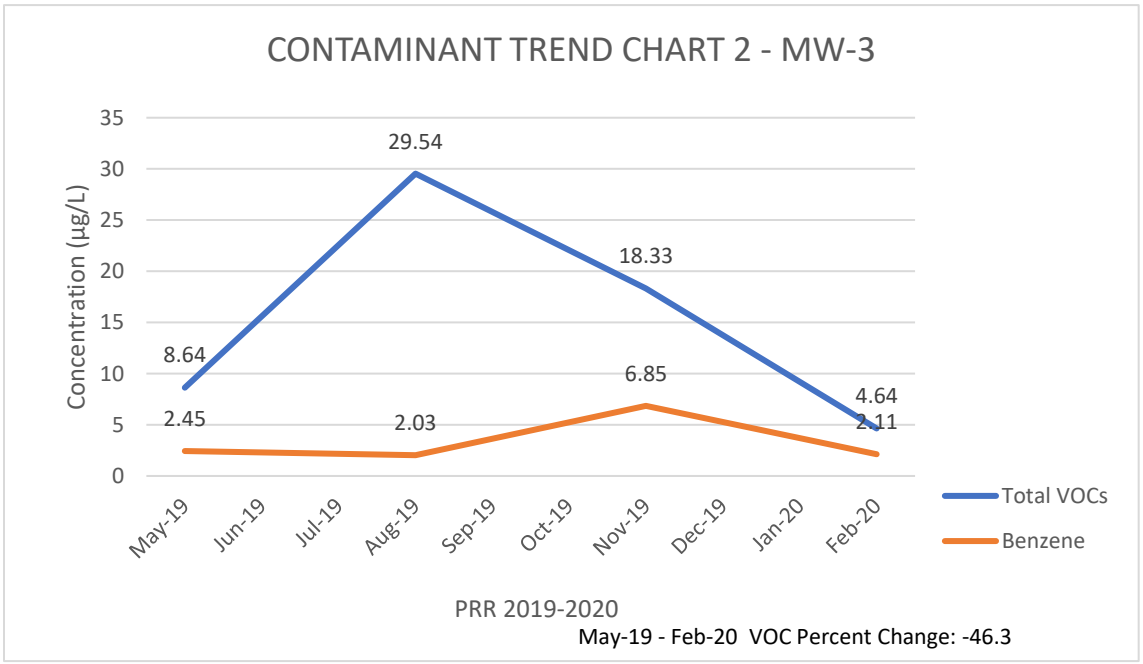
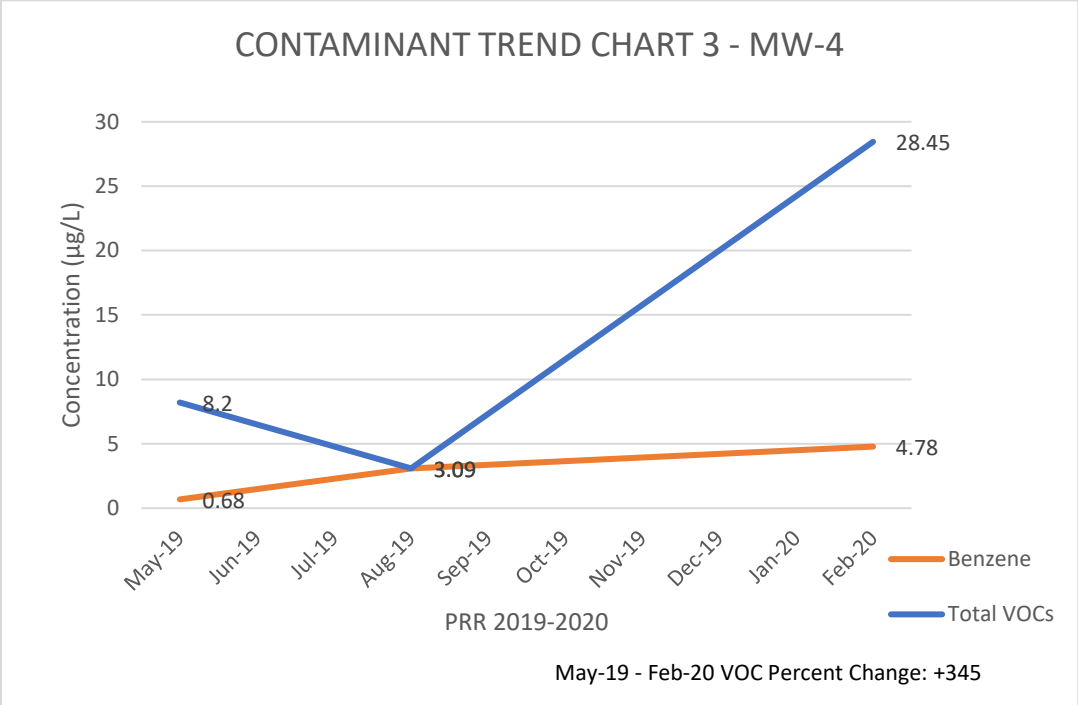
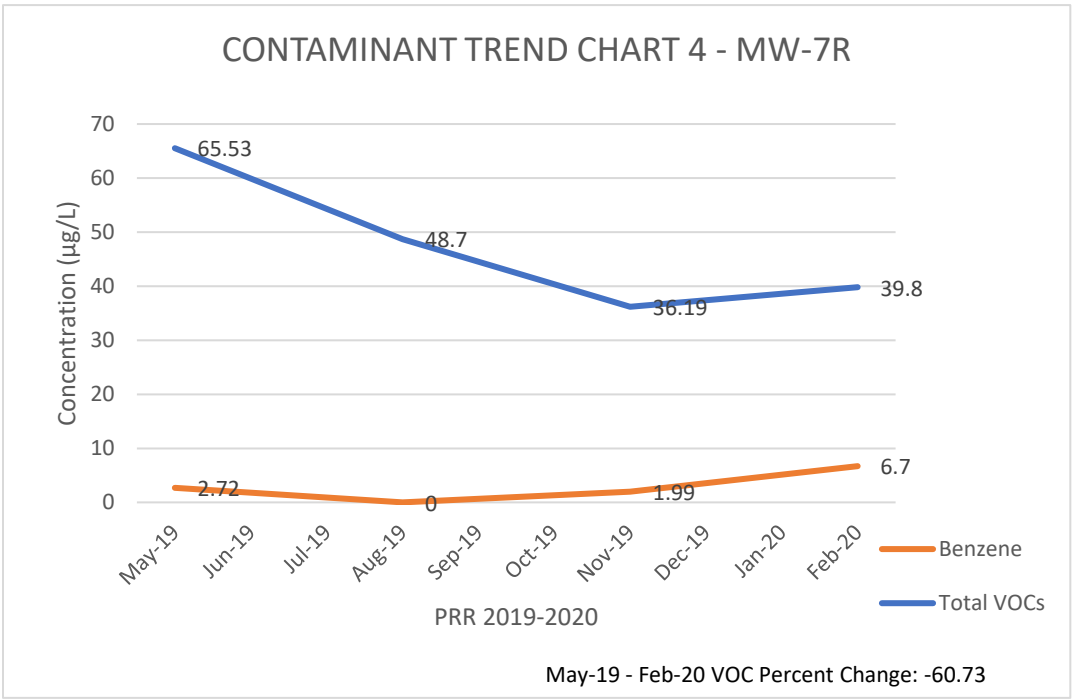
ARCHITECTS ENGINEERS PLANNERS

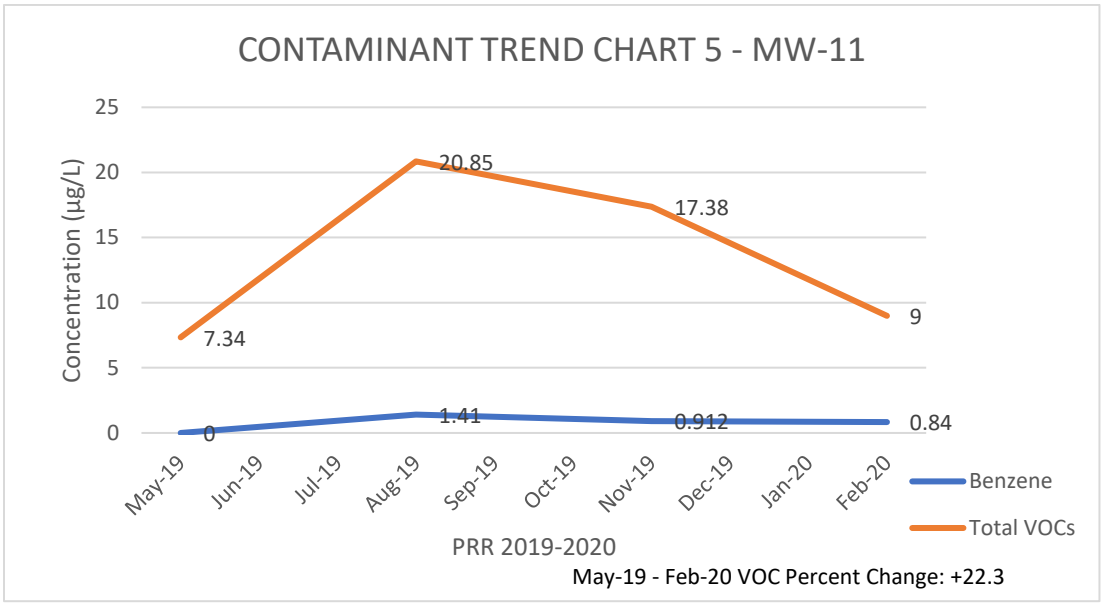
CONTAMINANT TREND CHARTS

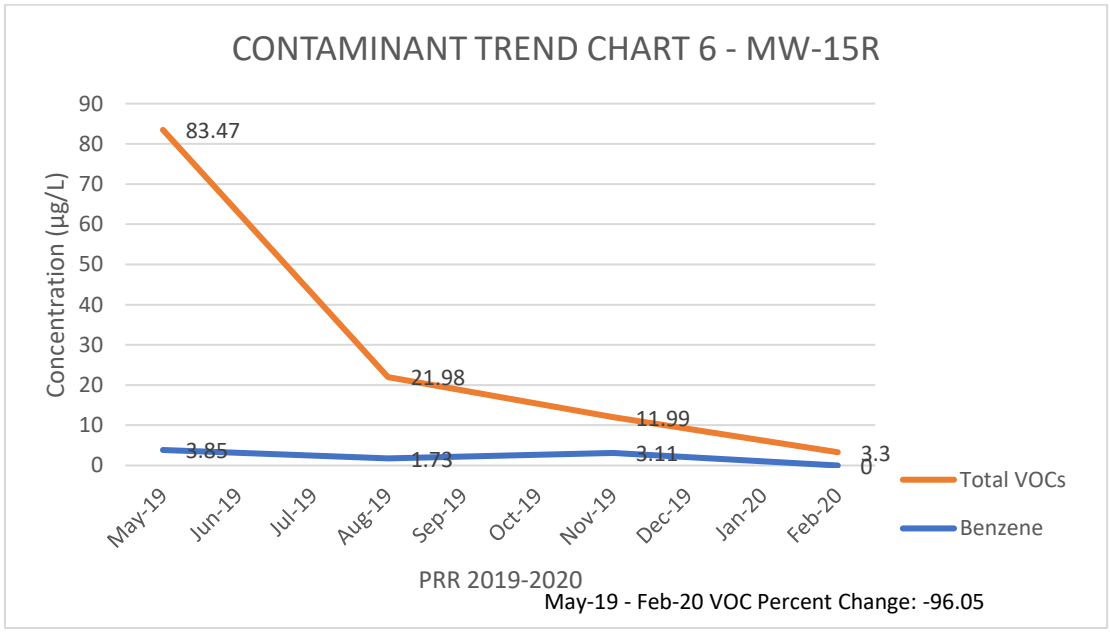

CONTAMINANT TREND CHART 1 - MW-1
Concentration (µg/L)
300
250
200
150
100
50
0
254.48
173.18
87.44
35.82
7.27
0
4.28
5.28
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20
Feb-20
Total VOCs
Benzene
PRR 2019-2020
May-19 - Feb-20 VOC Percent Change: +47%


CONTAMINANT TREND CHART 2 - MW-3
Concentration (µg/L)
35
30
25
20
15
10
5
0
29.54
18.33
8.64
6.85
4.64
2.45
2.03
2.11
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20
Feb-20
Total VOCs
Benzene
PRR 2019-2020
May-19 - Feb-20 VOC Percent Change: -46.3


CONTAMINANT TREND CHART 3 - MW-4
Concentration (µg/L)
30
25
20
15
10
5
0
28.45
8.2
4.78
3.09
0.68
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20
Feb-20
PRR 2019-2020
Benzene
Total VOCs
May-19 - Feb-20 VOC Percent Change: +345


CONTAMINANT TREND CHART 4 - MW-7R
Concentration (µg/L)
70
60
50
40
30
20
10
0
65.53
48.7
36.19
39.8
2.72
0
1.99
6.7
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20
Feb-20
PRR 2019-2020
Benzene
Total VOCs
May-19 - Feb-20 VOC Percent Change: -60.73


CONTAMINANT TREND CHART 5 - MW-11
Concentration (µg/L)
25
20
15
10
5
0
20.85
17.38
9
7.34
0
1.41
0.912
0.84
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20
Feb-20
Benzene
Total VOCs
PRR 2019-2020
May-19 - Feb-20 VOC Percent Change: +22.3


CONTAMINANT TREND CHART 6 - MW-15R
Concentration (µg/L)
90
80
70
60
50
40
30
20
10
0
83.47
21.98
11.99
3.3
0
3.85
1.73
3.11
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20
Feb-20
Total VOCs
Benzene
PRR 2019-2020
May-19 - Feb-20 VOC Percent Change: -96.05

FIGURES

City of Rochester
1200 East Main Street ERP
Periodic Review Report

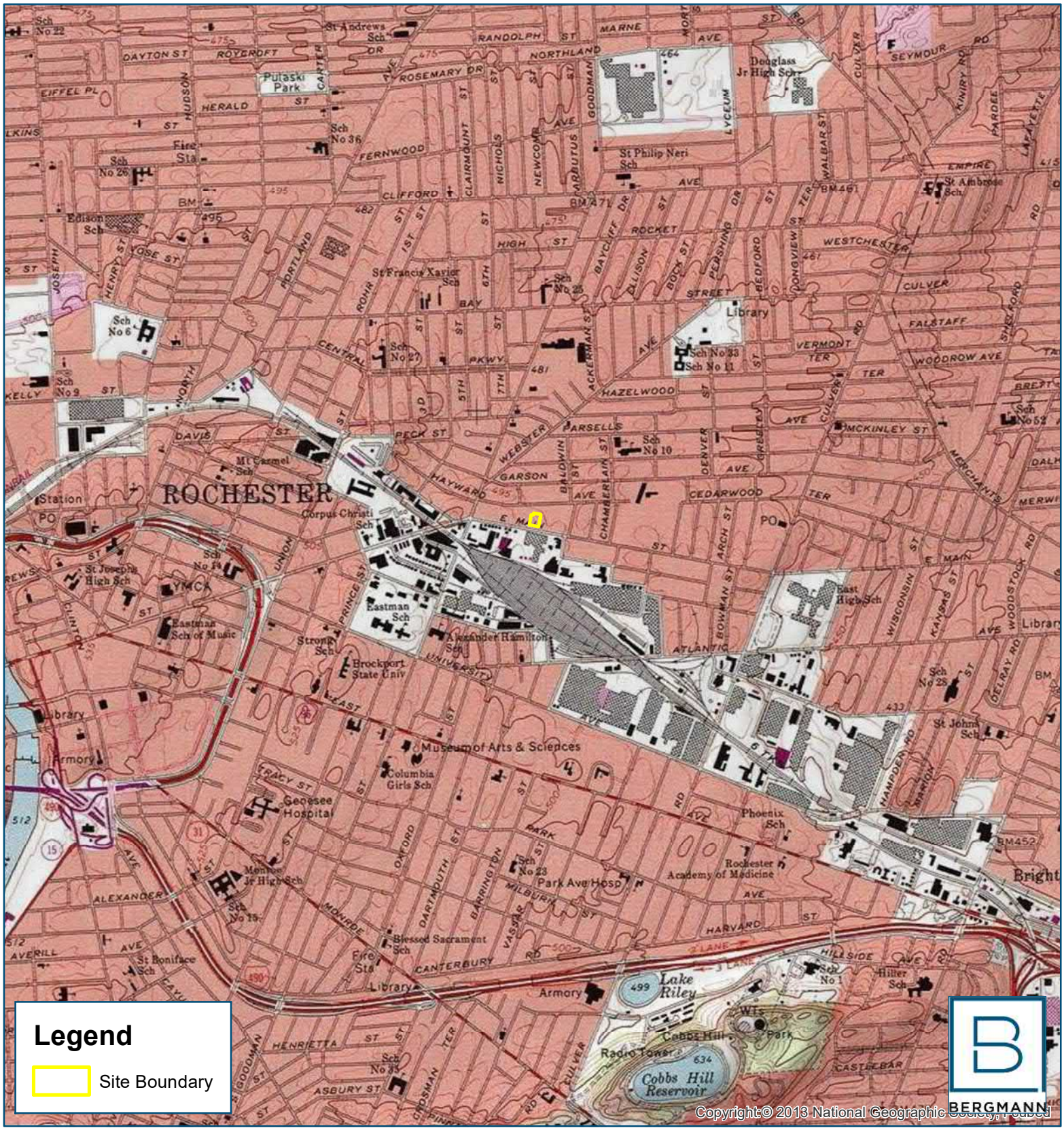
SITE LOCATION MAP

Fig. 1

2,000 Feet

N

City of Rochester, Monroe County, New York



City of Rochester
1200 East Main Street ERP
Periodic Review Report

Site Plan

Fig. 2

40 Feet

N

City of Rochester, Monroe County, New York

City of Rochester
1200 East Main Street ERP
Periodic Review Report

May 2019 Groundwater Analytical Results

Fig. 3

40 Feet

N

City of Rochester, Monroe County, New York

City of Rochester
1200 East Main Street ERP
Periodic Review Report

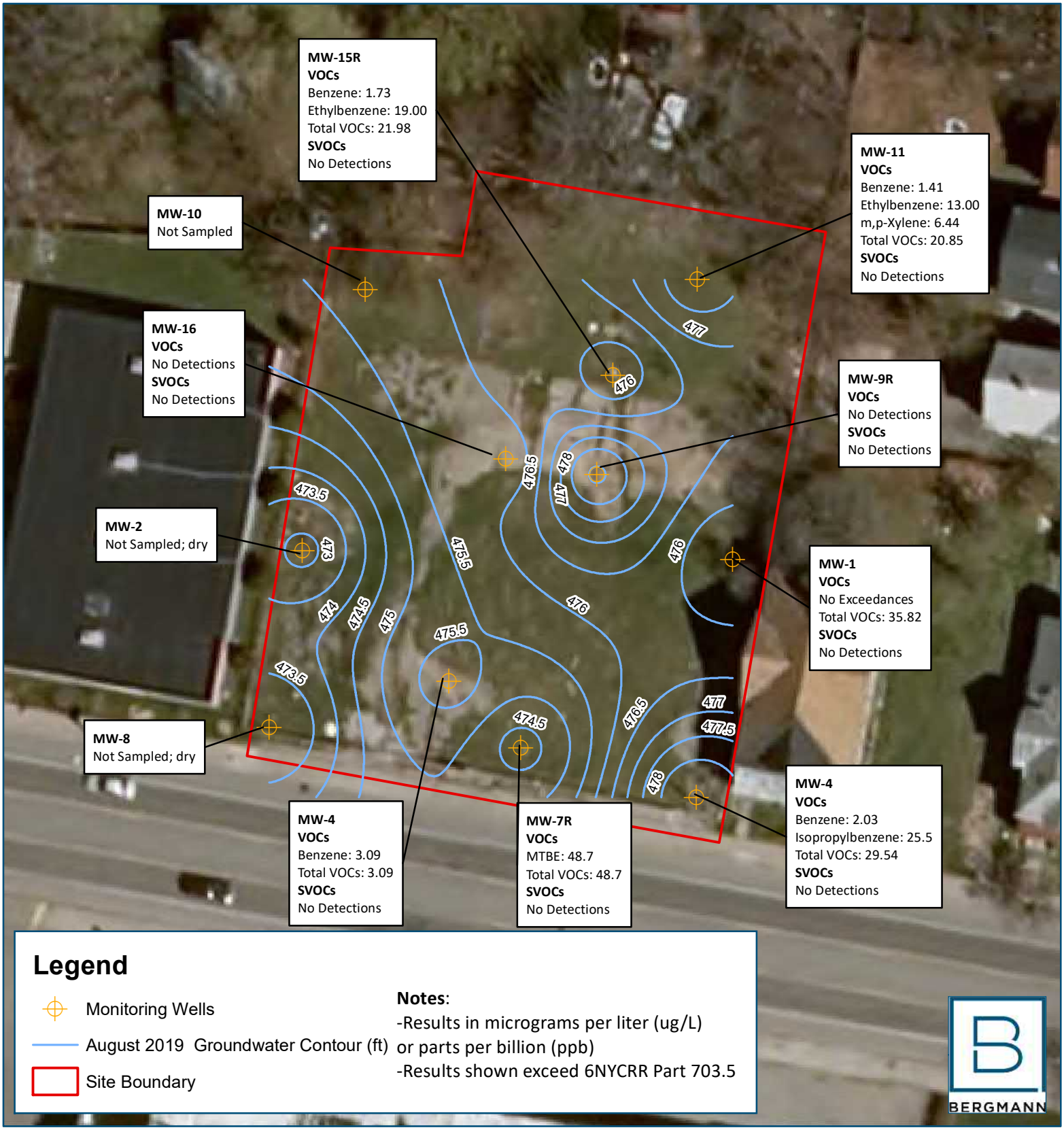
August 2019 Groundwater Analytical Results

Fig. 4

40 Feet

N

City of Rochester, Monroe County, New York



Legend

- Monitoring Wells
- August 2019 Groundwater Contour (ft)
- Site Boundary

Notes:
-Results in micrograms per liter (ug/L) or parts per billion (ppb)
-Results shown exceed 6NYCRR Part 703.5

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City of Rochester
1200 East Main Street ERP
Periodic Review Report

November 2019 Groundwater Analytical Results

Fig. 5

40 Feet

N

City of Rochester, Monroe County, New York

City of Rochester
1200 East Main Street ERP
Periodic Review Report

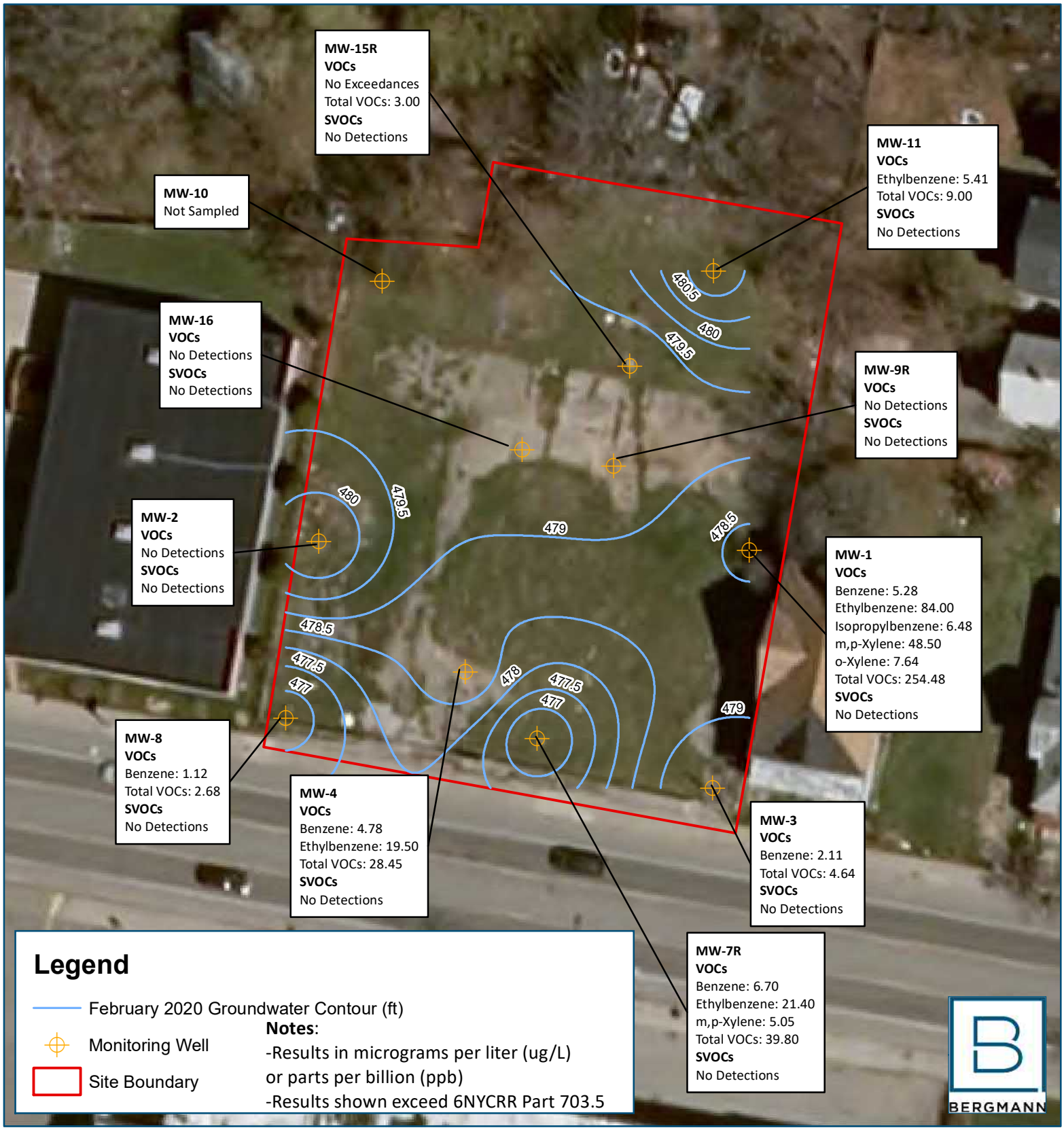
February 2020 Groundwater Analytical Results

Fig. 6

40 Feet

N

City of Rochester, Monroe County, New York



APPENDIX A:

SITE INSPECTION FORM

SITE-WIDE INSPECTION FORM

SITE INFORMATION
1200 East Main Street
NYSDEC Site No. B00129
City of Rochester, Monroe County, NY

NAME OF INSPECTOR: Alexandra Leigh Zobel

COMPANY OF INSPECTOR: City of Rochester

DATE OF INSPECTION: 2/20/2020

CURRENT USE OF SITE: Vacant

HAS A CHANGE OF USE OCCURRED SINCE THE LAST CERTIFICATION?
_____ YES ___X____ NO*
IF YES, THEN EXPLAIN:*A Change of Use was approved by the NYSDEC in a letter received on June 17, 2020 (which falls outside of the Reporting Period) but has not occurred yet to date.

GENERAL DESCRIPTION OF ENG. CONTROL: Vapor mitigation and groundwater treatment system.

GENERAL DESCRIPTION OF COVER SYSTEM: Site is not damaged/no disturbance to the surface.

HAVE THE ECs BEEN CHANGED/ REMOVED? _____X____YES _____NO
IF YES, THEN EXPLAIN: The remediation systems, with the exception of the underground piping and IP points, have been removed.

HAS THE COVER BEEN PENETRATED? _____YES ____X____NO
IF YES, THEN EXPLAIN:_____

HAVE ANY STRUCTURES BEEN CONSTRUCTED ON THE SITE SINCE THE LAST INSPECTION? _____ YES ____X___NO
IF YES, THEN EXPLAIN:_____
_____
_____

HAVE COVER CONDITIONS CHANGED SINCE THE LAST INSPECTION?
_____YES ____X____NO
IF YES, THEN EXPLAIN:_____
_____

IS ANY MAINTENANCE OF THE COVER REQUIRED?
_____YES __X____NO
IF YES, THEN EXPLAIN:_____
_____
_____

ADDITIONAL OBSERVATIONS, CONCLUSIONS OR RECCOMMENDATIONS:
_____
_____

ANY CHANGES TO THE SITE OR REQUIRED MAINTENANCE SHOULD BE MARKED IN THE CORRESPONDING LOCATION ON A ATTACHED MAP

APPENDIX B:

GROUNDWATER SAMPLING

LOGS

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW1 **Date** 5/2/19

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel GT. 3 gals.

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1455	7.47	11.2	-53.1	5.46	1.29	—			
1505	7.21	10.7	-55.6	4.79	4.16				
1515	7.24	10.8	-71.4	3.33	1.64				
1525	7.21	10.8	-73.9	2.42	1.45				Sampled

Type of Samples Collected

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW3 **Date** 5/2/19

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel JMF

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1535	7.33	11.3	-76.9	2.30	2.01				
1545	7.28	11.1	-73.6	2.79	2.84				
1555	7.41	10.9	-79.9	2.80	1.99				
1605	7.33	10.5	-79.3	2.60	~~2.44~~	2.14			
1615	7.41	10.8	-77.7	2.26	1.83	- sample @ 16'6			

Type of Samples Collected

VOCs + SVOCs @ 16'6

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main Site 1200 E. Main Well No. MW 4 Date 05/02/2019

Well Depth Peristaltic Screen Length _____ Well Diameter 2" Casing Type PVC

Sampling Device _____ Tubing type _____ Water Level _____

Measuring Point _____ Other Infor _____

Sampling Personnel HZM

Start pumping @ 1147

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1150	6.85	11.0	-27.6	2.55	29.0				- petro odor, Gallionish type
									12" well stopped
back on → 1215	7.07	10.9	-41.2	2.54	0 NTU				producing water OFF
1250	7.25	11.2	-77.2	6.90	50.2				- recharging v. slowly
1310	7.30	11.2	-82.4	7.31	18.8				* Well pumped dry
1330	7.35	12.4	-79.8	6.76	44.9				

Type of Samples Collected

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log** * need to purge 3.0 gal

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW7R **Date** 05/02/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device peristaltic **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM

start pumping @ 12:15

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
12:25	7.23	11.5	25.9	6.42	36.4				water clear, no odors, pumping well
12:35	7.13	11.0	3.8	12.57	5.39				
12:45	7.15	10.9	24.3	13.02	2.55				
12:55	7.10	10.8	1.5	12.03	1.43				
13:05	7.09	11.1	33.2	12.39	1.36 A.Z.M				
~~13:15~~	~~STA~~		A.Z.M.		~~2.65~~	~~1.30~~			
13:23	7.13	11.1	17.2	12.35	1.30				

Type of Samples Collected SVOCs + VOCs + Blind Dup @ 13:30

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project _____ **Site** 1200 E. Main **Well No.** MW-8 **Date** 5/2/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM

start pumping @ 8:45

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
8:50	7.50	10.0	~~3.65~~ 85.6 AZM	73.2	7.24				
A.ZM 8:55 ~~9:00~~	7.39	9.0	87.2	8.31	1.15				
9:10	7.49	9.2	77.8	7.95	2.35				well pumping v. slow
9:20	7.24	9.2	-0.3	7.08	1.27				
9:40	7.16	9.3	-16.1	7.51	1.23				
9:50	7.16	9.4	-27.7	6.96	1.90				
10:05	7.28	9.7	-19.5	7.03	0.62				
10:15	7.23	10.0	-39.4	7.35	0.61				

Type of Samples Collected

~~SVOCs + VOCs~~ SVOCs started @ 10:20, VOAs @ 10:50

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW9R **Date** 5/2/19 5 gal

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM + JMF

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1405	7.70	11.2	-48.7	6.49	19.3				
1415	7.53	10.7	-38.0	4.90	11.8				
1425	7.41	10.5	-38.5	6.10	6.40				
1435	7.38	10.4	-34.3	6.79	2.75				
1445	7.37	10.5	-28.7	5.62	1.92				Sampled

Type of Samples Collected

VOCs + SVOCs @ 1445

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project _____ **Site** 1200 E. Main **Well No.** MW-11 **Date** 5/2/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

Start Pumping @ 912

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
922 ~~912~~	7.14	9.3	-50.7	1.65	6.30				- purge water black sediment
AZM ~~935~~	~~8.9~~				~~7.54~~				
935	7.09	8.9	-54.8	3.43	7.54				
945	7.00	9.0	-58.9	4.03	5.51				
955	7.48	9.2	-64.4	3.01	6.77				
1018 ~~1025~~	7.31	9.4	-72.7	2.43	4.21				
1023	7.21	9.5	-78.0	2.16	5.55				
1035	7.04	9.5	-65.8	2.37	9.60				
1045	7.06	9.4	-63.4	2.78	8.945				
1055	7.00	9.7	-61.5	2.50	9.19				

Type of Samples Collected

SVOCs & VOCs, ~~S~~ AZM, MS + MSD @ 1120

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log** purge volume = 6 gal

Project 200E Main **Site** 200E Main **Well No.** MW 15R **Date** 5/2/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started purging @ 15^{00}

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15^{05}	7.30	11.4	6.8	4.20	15.3				
15^{15}	7.17	10.5	40.4	4.77	3.72				
15^{25}	7.11	11.0	56.5	3.04	1.24				
15^{35}	7.09	10.8	53.6	29.8	1.47				- sampled

Type of Samples Collected SVOCs + VOCs @ 15^{35}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW16 **Date** 5/2/19 7gal

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM + JMF

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1400	7.85	11.4	-55.7	2.36	668				
1410	7.53	11.8	-57.7	4.78	138				
1420	7.27	11.1	-42.4	3.20	49.8				
1430	7.28	10.7	-38.4	3.18	21.8				
1440	7.31	10.9	-26.4	3.73	8.85				
1445	- sampled								

Type of Samples Collected SVOCs + VOCs @ 1445

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-16 **Date** 8/1/2019

Well Depth 24.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI **Tubing type** _____ **Water Level** 16.85

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zahid Martino

started pumping ~~@ 1325~~ @ 1530

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
1530	6.96	14.8	1.43	0.28	50.0				
1535	7.50	16.1	1.46	2.00	41.9				
1540	7.04	17.5	1.48	2.99	14.6				
1545	7.36	18.1	1.48	3.04	38.2		18.5		
1550	7.32	17.9	1.47	2.44	32.2		18.5		
1555	7.31	16.5	1.48	2.77	19.4		19.0		
1600	7.24	16.0	1.46	0.67	45.1		19.3		
1605	7.25	16.3	1.45	1.06	30.6		19.0		
1610	7.35	16.4	1.45	1.15	26.4		19.0		
1615	7.23	16.8	1.44	1.12	23.5		18.7		
1620	7.~~23~~	16.9	1.43	1.18	11.1		18.5		
1625	7.25	16.8	1.43	1.14	12.1		18.7		

Type of Samples Collected

TCL VOCs (2 VOA vials) + SVOCs (1 L amber) @ 1625

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-15R **Date** 8/1/2019
Well Depth 24 **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC
Sampling Device _____ **Tubing type** _____ **Water Level** 16.8
Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zabel

started pumping @ 13:05

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	water level		Notes
13:10	8.27	13.8	1.65	1.98	21.4		16.8		water clear but rust colored particles present
13:15	7.88	14.4	1.65	1.44	5.29		18.6		
13:20	8.05	14.4	1.70	0.78	3.01				
13:25	7.57	14.8	1.60	2.01	2.47				
13:30	7.38	16.5	1.59	3.07	4.10				
13:35	7.39	17.6	1.60	3.32	2.34				
13:40	7.26	18.3	1.57	3.59	1.51				
13:45	7.14	18.8	1.54	3.74	1.43				

Type of Samples Collected
(2) VOA (TCL VOCs) + (1) SVOCs @ 13:45

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-9R **Date** 8/1/2019

Well Depth 22 **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 13.85'

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zabel Martins

started pumping @ 1423

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1427	7.17	14.5	2.02	1.90	6.48				
1432	7.10	15.4	2.02	3.34	5.97				
1437	7.02	14.9	2.01	5.17	6.69				
1442	6.92	14.6	2.00	5.96	5.03				
1447	6.65	15.1	2.00	5.08	3.48				
1452	6.57	14.9	1.99	4.63	3.05				
1457	6.54	15.0	1.99	4.48	1.68				
1502	6.50	15.3	1.99	4.40	1.80				

Type of Samples Collected TCL VOCs + SVOCs sampled @ 1505

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

2" well constant = 0.16

(22 - 18.2) * 0.16 =

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-11 **Date** 08/01/2019

Well Depth ~~18.2~~ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device VSI **Tubing type** _____ **Water Level** 18.2

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zakel

started @ 10^50 & pumping

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
~~10^00~~	~~7.53~~								water black in color, gassy
11^12	9.59	13.0	1.02	0.24	16.9				smell
11^17	9.65	13.9	1.01	0.37	16.7				
11^22	9.48	13.9	1.01	0.34	8.89				
11^28	9.47	14.5	1.00	0.33	5.31				
11^33	9.58	14.8	1.00	0.30	5.05				

@ 11:40

Type of Samples Collected (6) VOA samples + ~~(3) + L~~ (3) SVOCs

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$ * MS/MSD collected.

Figure 2. **Ground Water Sampling Log**

Project 1200E Main **Site** _____ **Well No.** MW-3 **Date** 08/02/2019
Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC
Sampling Device N/A **Tubing type** _____ **Water Level** 13.62
Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zabel Martino

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
17^{00}	- peristaltic pump having issues w/ pumping consistently; decision made to sample w/o testing parameters								

Type of Samples Collected
TCL VOCs + TCL SVOCs collected @ 17^{00}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$ * Blind Dup also collected *

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-1 **Date** 08/02/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI **Tubing type** _____ **Water Level** 19.73

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started ~~sample~~ pumping @ 15:30

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15:30									well water full of ~~must collect~~ sediment
	* well only produced sediment - filled								
	water + then pumped dry. Decision is made								
	to abandon parameter reading + sample wells								

Type of Samples Collected TCL VOCs + TCL SVOCs collected @ 15:45

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-7R **Date** 8/2/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 17.6

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started pumping @ 1320

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
1322	7.06	17.4	1.84	0.18	1930				
1327	6.80	16.7	1.81	0.10	854				
1332	6.10	16.2	1.77	0.09	11.7		18.10		
1337	6.44	17.0	1.77	0.09	11.93		18.10		
1342	6.45	18.9	1.77	0.10	7.10		18.40		
1347	6.37	16.2	1.79	0.08	3.43		18.70		
1352	6.36	16.1	1.80	0.07	2.60		18.90		
1357	6.34	16.3	1.81	0.05	3.87				

Type of Samples Collected

TCL VOCs + TCL SVOCs collected @ 1400

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

* SVOCs sample not filled up completely to 1L ≈ .75L

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-4 **Date** 8/2/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI **Tubing type** _____ **Water Level** 16.35

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started pumping @ 10^{30}

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
10^{32}	7.09	15.8	1.94	1.24	28.0		16.35		
10^{37}	7.28	15.5	1.95	0.46	12.1		18.0		
10^{42}	7.41	16.0	1.92	0.32	8.04		18.81		
10^{47}	7.39	16.8	1.93	0.31	13.7		19.50		
10^{52}	7.38	16.7	1.93	0.30	10.82		20.00		
* well recharging so slowly that low-flow cell									→ well purged dry, pump off
not filling, decision made to sample @ 11^{53}									

Type of Samples Collected

VOC, SVOC Sample time 1153

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200E Main **Site** _____ **Well No.** MW-2 **Date** 8/1/2019

Well Depth ~~22.0'~~ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI **Tubing type** _____ **Water Level** 23.10'

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zakul Martins

started pumping @ 17^{00}

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
17^{05}	5.58	16.7	1.27	6.45	3162		23.9		rust colored water
17^{10}	5.49	16.7	1.28	4.50	2477		24.0		
* well pumped dry, no sample achieved									
* re-attempted to sample 08/02/2019; no GW present - no sample taken									

Type of Samples Collected N/A - well pumped dry

Information: 2 In = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-8 **Date** 8/1/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI **Tubing type** _____ **Water Level** 21.86

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zobil Martinez

started pumping @ 17^{30}, well pumped dry; no samples taken

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
* reattempted to sample - no sample taken						08/02/2019;		no GW present	

Type of Samples Collected N/A - well pumped dry

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-1 **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 18.85

Measuring Point _____ **Other Infor** _____

Started purging @ 1355

Sampling Personnel _____

total GW volume evacuated ≈ 1.5 gal

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1400	6.88	14.0	1.115	1.75	62.8				- GW must colored at first
1405	6.90	14.1	1.154	1.52	46.1				
1410	6.93	13.8	1.228	1.33	51.8				
1415	6.93	13.8	1.277	1.23	42.2				
1420	6.94	13.7	1.310	1.14	40.5				
1425	6.95	13.6	1.331	1.08	36.1				
1430	6.95	13.7	1.353	1.03	43.8				
1435	6.95	13.5	1.360	1.03	31.4				

Type of Samples Collected

Sampled TCL VOCs + TCL SVOCs @ 1435

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-2 **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 22.4

Measuring Point _____ **Other Infor** _____

started pumping @ 1320

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
* due to low GW level in well & historically poor recharge the Jasper is unable to forego taking parameters + sample @ 1325									

Type of Samples Collected

TCL VOCs + TCL SVOCs taken @ 1325

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

20114#

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-3 **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 13.02

Measuring Point _____ **Other Infor** _____

started pumping @ 1455 1510

Sampling Personnel A. Zabel

total GW evacuated ≈ 3.25

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15^{10}	6.95	14.5	1.383	1.39	39.2				- faint petro odor at start of pumping
15^{15}	7.00	14.8	1.038	1.09	38.4				
15^{20}	7.00	15.0	1.046	1.02	66.7				
15^{25}	7.00	15.1	1.068	0.98	37.3				
15^{30}	6.99	15.0	1.088	0.97	37.7				
15^{35}	6.99	15.0	1.084	0.95	53.3				
15^{40}	7.00	15.0	1.076	0.94	68.8				
15^{45}	7.00	15.0	1.074	0.93	83.9				

Type of Samples Collected

Sampled TCL SVOCs + TCL VOCs @ 1545, BLIND DUPLICATE

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-4 **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 15.60

Measuring Point _____ **Other Infor** _____

Started pumping @ 11:17

Sampling Personnel A. Zakal

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
11:20	6.65	13.2	1.653	1.42	38.1				- water clear
11:25	6.63	13.3	1.637	1.25	18.4				
11:30	6.62	13.4	1.627	1.22	38.8				
11:35	6.61	13.2	1.617	1.16	47.1				
11:40	6.56	12.3	1.638	1.23	52.1				
11:45	6.51	10.6	1.651	1.32	38.9				
11:50	6.50	9.6	1.657	1.38	32.0				
11:55	6.49	8.6	1.662	1.53	22.7				- well recharging slowly, attempt at sampling made at 11:57 but no water available - will attempt again after recharge
	*attempt @ sampling @ 14:45 but no recharge								

Type of Samples Collected

_____

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-7R **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 16.45

Measuring Point _____ **Other Infor** _____

started pumping @ 1005

Sampling Personnel H. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
10^{07}	6.47	13.8	1.977	1.22	203.1				- Water V. turbid + gray-black in color
10^{10}	6.46	13.8	1.827	1.09	43.0				
10^{15}	6.47	13.9	1.798	1.06	53.0				
10^{20}	6.46	13.9	1.573	1.03	66.0				
10^{25}	6.50	13.9	1.540	1.01	66.4				
10^{30}	6.52	14.0	1.539	1.00	77.9				
10^{35}	6.54	13.9	1.536	0.98	78.0				
10^{40}	6.54	14.1	1.560	0.96	78.3				

Type of Samples Collected

TCL VOCs + TCL SVOCs collected @ 10^{42}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-8 **Date** 11/7/2019

Well Depth 22.0 **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 21.0

Measuring Point _____ **Other Infor** _____

started pumping @ 13^{00}; well pumped dry - no samples taken

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
* reattempted to sample @ 13^{15}; no GW present - no samples taken									

Type of Samples Collected Ø

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-9R **Date** 11/6/2019

Well Depth YSI Pro **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 11.88

Measuring Point _____ **Other Infor** _____

started pumping @ 13:00

Sampling Personnel A. Zakul

total Volume evacuated ≈ 2.25 gal

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
13:01	6.87	14.5	2.536	3.90	14.8				
13:05	6.85	14.5	2.543	3.33	11.1				
13:10	6.87	14.6	2.523	3.52	7.7				
13:15	6.91	14.7	2.397	4.11	8.7				
13:20	6.92	14.8	2.315	4.29	11.1				
13:25	6.94	14.8	2.241	4.49	14.5				
13:30	6.97	14.9	2.120	5.46	19.5				
13:35	6.98	14.9	2.095	5.78	20.5				

Type of Samples Collected

sampled TCL VOCs + TCL SVOCs @ 13:45

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** ← **Well No.** MW-11 **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 18.23

Measuring Point _____ **Other Infor** _____

started pumping @ 11^05

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
11^{10}	6.75	12.9	1.280	1.12	77.7				- first .25-.50 gal of water is gray black w/ petro odor
11^{15}	6.76	13.2	1.281	1.05	90.2				
11^{20}	6.78	13.1	1.279	1.02	82.8				
11^{25}	6.79	13.5	1.284	1.00	106.3				
11^{30}	6.79	13.1	1.293	0.99	99.1				
11^{35}	6.80	13.1	1.299	0.98	148.1				

Type of Samples Collected

Sampled TCL VOCs & TCL SVOCs @ 11^{40}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-15R **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 15.23

Measuring Point _____ **Other Infor** _____

Started pumping @ 12:10

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
12"	6.87	14.4	1.697	4.32	23.0				
12:15	6.72	14.5	1.735	3.92	48.0				
12:20	6.74	14.4	1.813	3.23	55.6				
12:25	6.75	14.4	1.849	2.88	58.5				
12:30	6.76	14.4	1.891	2.43	56.7				

Type of Samples Collected

Sampled TCL VOCs + TCL SVOCs @ 12:32

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-16 **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.55

Measuring Point _____ **Other Infor** _____

started pumping @ 1345

Sampling Personnel JA Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1350	6.81	14.3	1.285	1.87	279.3				- water is clear
1355	6.78	14.2	1.290	1.81	240.0				
1400	6.78	14.0	1.303	1.70	257.1				
1405	6.79	13.9	1.311	1.48	256.0				
1410	6.78	14.0	1.311	1.42	256.2				
1415	6.78	14.0	1.306	1.32	255.0				

Type of Samples Collected

TCL VOCs + TCL SVOCs @ 1415

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200E Main **Site** ____ **Well No.** MW-1 **Date** 2/21/2020

Well Depth ____ **Screen Length** ____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** ____ **Water Level** 16.92'

Measuring Point ____ **Other Infor** ____

started pumping @ 1410

Sampling Personnel A Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1440	6.70	10.0	1.044	1.59	106.14				- water rust colored
1445	6.78	9.9	1.032	1.21	99.60				- emptied low flow cell, refilled
1450	6.87	9.7	1.081	1.32	~~48~~ 45.84				
1455	6.85	10.1	1.098	0.71	~~40.56~~ 209.71				
15⁰⁰	6.85	10.0	1.124	0.54	25.61 ?				
15⁰⁵	6.86	9.7	1.135	0.53	6.00				
15¹⁰	6.87	9.7	1.146	0.34	4.51				

Type of Samples Collected

TCL VOCs & TCL SVOCs collected @ 1515

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3 \pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-2 **Date** 2/20/20

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 15.65'

Measuring Point _____ **Other Infor** Started pumping @ 1245

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1250	6.78	9.9	1.118	2.43	12.55				
1255	6.75	9.7	1.112	2.22	9.20				
1300	6.75	9.9	1.111	2.19	8.65				

Type of Samples Collected Collected TCL VOCs + TCL SVOCs @ 1300

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-3 **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 12.62'

Measuring Point _____ **Other Infor** _____

started pumping @ 15[25]

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15[30]	7.09	10.5	0.947	1.40	47.38			-	Water very dark @ first. Getting lighter
15[35]	7.05	10.2	1.004	0.30	16.26				
15[40]	7.04	10.1	1.069	0.28	11.55				
15[45]	7.07	10.0	1.199	0.27	5.57				
15[50]	7.10	9.9	1.233	0.24	2.20				

Type of Samples Collected

TCL VOCs + TCL SVOCs Collected @ 15[55]

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-4 **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.25 13.25'

Measuring Point _____ **Other Infor** _____

started pumping @ 1243

Sampling Personnel H. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1250	6.66	10.6	0.75	0.83	130001				Water V. Low
1255	6.63	10.2	1.696	0.39	12702				w/ Sediment
1300	6.62	10.2	1.704	0.32	62.08				
1305	6.62	10.5	1.700	0.38	57.68				
1310	6.62	10.7	1.700	0.46	48.60				
1315	6.66	7.0	1.817	0.44	121.65				
1320	6.65	7.0	1.814	0.43	107.84				
1325	6.64	7.2	1.802	0.42	113.90				

Type of Samples Collected

TCL VOCs + TCL SVOCs collected @ 1330

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-7R **Date** 02/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 15.4'

Measuring Point _____ **Other Infor** _____

Started pumping @ 1349

Sampling Personnel J. H. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1350	6.77	11.3	2.070	0.47	596.02				
1355	6.76	11.0	2.065	0.30	88.59				
1400	6.81	10.9	1.604	0.22	140.12				
1405	6.82	10.8	1.532	0.20	122.57				
1410	6.83	10.5	1.502	0.19	193.22				
1415	6.83	10.4	1.500	0.19	159.82				
1420	6.83	10.3	1.496	0.18	154.54				
1425	6.83	10.4	1.480	0.17	153.50				

Type of Samples Collected

Sample TCL VOCs + TCL SVOCs @ 1430

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-8 **Date** 2/20/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 18.1'

Measuring Point _____ **Other Infor** started purging @ 1127

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1130	7.24	10.3	4.813	9.22	2.87	N/A			
1135	7.25	10.4	5.023	9.72	2.38				
1140	7.27	10.7	5.086	9.47	6.24				

Type of Samples Collected TCL VOCs + TCL SVOCs collected @ 1140

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-9R **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 11.0'

Measuring Point _____ **Other Infor** Started pumping @ 1030

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1030	7.23	9.8	1.969	1.32	6.25				
1035	7.02	9.9	1.965	0.60	5.30				
1040	7.00	9.5	1.957	0.56	11.20				
1045	7.00	9.5	1.952	0.56	10.15				

Type of Samples Collected TCL VOCs + TCL SVOCs Collected @ 1050

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-11 **Date** 2/20/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 14.75'

Measuring Point _____ **Other Infor** _____

Started pumping @ 1430

Sampling Personnel A Zabul

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1435	6.53	9.5	1.129	0.65	107.0				
1440	6.53	9.7	1.124	0.35	74.01				
1445	6.53	9.6	1.123	0.31	51.0				
1450	6.53	9.6	1.119	0.26	65.38				
1455	6.54	9.1	1.114	0.23	63.53				
1500	6.55	8.7	1.110	0.22	61.55				
1505	6.55	8.1	1.109	0.21	55.53				

Type of Samples Collected

sample TCL VOCs + TCL SVOCs @ 1510

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-15R **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.3'

Measuring Point _____ **Other Infor** started pumping @ 900

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
905	6.56	9.0	1.597	6.85	1.30				
910	6.58	9.3	1.601	6.80	0.98				
915	6.60	9.1	1.587	6.83	0.95				

Type of Samples Collected

TCL VOCs, TCL SVOCs MS/MSD collected @ 920 + Blind Dup

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-16 **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.3'

Measuring Point _____ **Other Infor** _____

started pumping @ 1105

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1110	6.53	9.5	~~0.30~~ 1.556	0.38	50.17				- rust colored
1115	6.53	9.4	1.597	0.23	30.72				water at first
1120	6.54	9.3	1.607	0.23	31.78				
1125	6.54	9.5	1.601	0.22	31.17				

Type of Samples Collected

TCL VOCs + TCL SVOCs sampled @ 1130

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

APPENDIX C:

LABORATORY ANALYTICAL DATA REPORTS

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		5/4/2019 01:59
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,2,4-Trichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,2-Dichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,3-Dichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,4-Dichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		5/4/2019 01:59
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		5/4/2019 01:59
2,4,5-Trichlorophenol	< 20.0	ug/L		5/4/2019 01:59
2,4,6-Trichlorophenol	< 10.0	ug/L		5/4/2019 01:59
2,4-Dichlorophenol	< 10.0	ug/L		5/4/2019 01:59
2,4-Dimethylphenol	< 20.0	ug/L		5/4/2019 01:59
2,4-Dinitrophenol	< 20.0	ug/L		5/4/2019 01:59
2,4-Dinitrotoluene	< 10.0	ug/L		5/4/2019 01:59
2,6-Dinitrotoluene	< 10.0	ug/L		5/4/2019 01:59
2-Chloronaphthalene	< 10.0	ug/L		5/4/2019 01:59
2-Chlorophenol	< 10.0	ug/L		5/4/2019 01:59
2-Methylnapthalene	< 10.0	ug/L		5/4/2019 01:59
2-Methylphenol	< 10.0	ug/L		5/4/2019 01:59
2-Nitroaniline	< 20.0	ug/L		5/4/2019 01:59
2-Nitrophenol	< 10.0	ug/L		5/4/2019 01:59
3&4-Methylphenol	< 10.0	ug/L		5/4/2019 01:59
3,3'-Dichlorobenzidine	< 10.0	ug/L		5/4/2019 01:59
3-Nitroaniline	< 20.0	ug/L		5/4/2019 01:59
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		5/4/2019 01:59
4-Bromophenyl phenyl ether	< 10.0	ug/L		5/4/2019 01:59
4-Chloro-3-methylphenol	< 10.0	ug/L		5/4/2019 01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 10.0	ug/L	5/4/2019	01:59
4-Chlorophenyl phenyl ether	< 10.0	ug/L	5/4/2019	01:59
4-Nitroaniline	< 20.0	ug/L	5/4/2019	01:59
4-Nitrophenol	< 20.0	ug/L	5/4/2019	01:59
Acenaphthene	< 10.0	ug/L	5/4/2019	01:59
Acenaphthylene	< 10.0	ug/L	5/4/2019	01:59
Acetophenone	< 10.0	ug/L	5/4/2019	01:59
Anthracene	< 10.0	ug/L	5/4/2019	01:59
Atrazine	< 10.0	ug/L	5/4/2019	01:59
Benzaldehyde	< 10.0	ug/L	5/4/2019	01:59
Benzo (a) anthracene	< 10.0	ug/L	5/4/2019	01:59
Benzo (a) pyrene	< 10.0	ug/L	5/4/2019	01:59
Benzo (b) fluoranthene	< 10.0	ug/L	5/4/2019	01:59
Benzo (g,h,i) perylene	< 10.0	ug/L	5/4/2019	01:59
Benzo (k) fluoranthene	< 10.0	ug/L	5/4/2019	01:59
Bis (2-chloroethoxy) methane	< 10.0	ug/L	5/4/2019	01:59
Bis (2-chloroethyl) ether	< 10.0	ug/L	5/4/2019	01:59
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	5/4/2019	01:59
Butylbenzylphthalate	< 10.0	ug/L	5/4/2019	01:59
Caprolactam	< 10.0	ug/L	5/4/2019	01:59
Carbazole	< 10.0	ug/L	5/4/2019	01:59
Chrysene	< 10.0	ug/L	5/4/2019	01:59
Dibenz (a,h) anthracene	< 10.0	ug/L	5/4/2019	01:59
Dibenzofuran	< 10.0	ug/L	5/4/2019	01:59
Diethyl phthalate	< 10.0	ug/L	5/4/2019	01:59
Dimethyl phthalate	< 20.0	ug/L	5/4/2019	01:59
Di-n-butyl phthalate	< 10.0	ug/L	5/4/2019	01:59
Di-n-octylphthalate	< 10.0	ug/L	5/4/2019	01:59
Fluoranthene	< 10.0	ug/L	5/4/2019	01:59
Fluorene	< 10.0	ug/L	5/4/2019	01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 10.0	ug/L	5/4/2019	01:59
Hexachlorobutadiene	< 10.0	ug/L	5/4/2019	01:59
Hexachlorocyclopentadiene	< 10.0	ug/L	5/4/2019	01:59
Hexachloroethane	< 10.0	ug/L	5/4/2019	01:59
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	5/4/2019	01:59
Isophorone	< 10.0	ug/L	5/4/2019	01:59
Naphthalene	< 10.0	ug/L	5/4/2019	01:59
Nitrobenzene	< 10.0	ug/L	5/4/2019	01:59
N-Nitroso-di-n-propylamine	< 10.0	ug/L	5/4/2019	01:59
N-Nitrosodiphenylamine	< 10.0	ug/L	5/4/2019	01:59
Pentachlorophenol	< 20.0	ug/L	5/4/2019	01:59
Phenanthrene	< 10.0	ug/L	5/4/2019	01:59
Phenol	< 10.0	ug/L	5/4/2019	01:59
Pyrene	< 10.0	ug/L	5/4/2019	01:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.9**	47.9 - 130		5/4/2019	01:59
2-Fluorobiphenyl	**50.6**	30.8 - 101		5/4/2019	01:59
2-Fluorophenol	**42.4**	10 - 113		5/4/2019	01:59
Nitrobenzene-d5	**64.4**	48.6 - 102		5/4/2019	01:59
Phenol-d5	**30.5**	10 - 111		5/4/2019	01:59
Terphenyl-d14	**81.9**	57.2 - 111		5/4/2019	01:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36723.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 16:34
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:34
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:34
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 16:34
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 16:34
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:34
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 16:34
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:34
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:34
1,4-Dioxane	< 20.0	ug/L		5/9/2019 16:34
2-Butanone	< 10.0	ug/L		5/9/2019 16:34
2-Hexanone	< 5.00	ug/L		5/9/2019 16:34
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 16:34
Acetone	< 10.0	ug/L		5/9/2019 16:34
Benzene	< 1.00	ug/L		5/9/2019 16:34
Bromochloromethane	< 5.00	ug/L		5/9/2019 16:34
Bromodichloromethane	< 2.00	ug/L		5/9/2019 16:34
Bromoform	< 5.00	ug/L		5/9/2019 16:34
Bromomethane	< 2.00	ug/L		5/9/2019 16:34
Carbon disulfide	< 2.00	ug/L		5/9/2019 16:34
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 16:34
Chlorobenzene	< 2.00	ug/L		5/9/2019 16:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	16:34
Chloroform	< 2.00	ug/L	5/9/2019	16:34
Chloromethane	< 2.00	ug/L	5/9/2019	16:34
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	16:34
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	16:34
Cyclohexane	< 10.0	ug/L	5/9/2019	16:34
Dibromochloromethane	< 2.00	ug/L	5/9/2019	16:34
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	16:34
Ethylbenzene	< 2.00	ug/L	5/9/2019	16:34
Freon 113	< 2.00	ug/L	5/9/2019	16:34
Isopropylbenzene	< 2.00	ug/L	5/9/2019	16:34
m,p-Xylene	< 2.00	ug/L	5/9/2019	16:34
Methyl acetate	< 2.00	ug/L	5/9/2019	16:34
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	16:34
Methylcyclohexane	< 2.00	ug/L	5/9/2019	16:34
Methylene chloride	< 5.00	ug/L	5/9/2019	16:34
o-Xylene	< 2.00	ug/L	5/9/2019	16:34
Styrene	< 5.00	ug/L	5/9/2019	16:34
Tetrachloroethene	< 2.00	ug/L	5/9/2019	16:34
Toluene	< 2.00	ug/L	5/9/2019	16:34
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	16:34
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	16:34
Trichloroethene	< 2.00	ug/L	5/9/2019	16:34
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	16:34
Vinyl chloride	< 2.00	ug/L	5/9/2019	16:34

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**93.2**	71.4 - 133		5/9/2019	16:34
4-Bromofluorobenzene	**74.6**	61.7 - 126		5/9/2019	16:34
Pentafluorobenzene	**96.8**	87.4 - 109		5/9/2019	16:34
Toluene-D8	**89.4**	82.3 - 112		5/9/2019	16:34

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60724.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 8		
Lab Sample ID:	191889-02	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.62	ug/L		5/4/2019 02:29
1,2,4,5-Tetrachlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,2,4-Trichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,2-Dichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,3-Dichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,4-Dichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
2,2-Oxybis (1-chloropropane)	< 9.62	ug/L		5/4/2019 02:29
2,3,4,6-Tetrachlorophenol	< 9.62	ug/L		5/4/2019 02:29
2,4,5-Trichlorophenol	< 19.2	ug/L		5/4/2019 02:29
2,4,6-Trichlorophenol	< 9.62	ug/L		5/4/2019 02:29
2,4-Dichlorophenol	< 9.62	ug/L		5/4/2019 02:29
2,4-Dimethylphenol	< 19.2	ug/L		5/4/2019 02:29
2,4-Dinitrophenol	< 19.2	ug/L		5/4/2019 02:29
2,4-Dinitrotoluene	< 9.62	ug/L		5/4/2019 02:29
2,6-Dinitrotoluene	< 9.62	ug/L		5/4/2019 02:29
2-Chloronaphthalene	< 9.62	ug/L		5/4/2019 02:29
2-Chlorophenol	< 9.62	ug/L		5/4/2019 02:29
2-Methylnapthalene	< 9.62	ug/L		5/4/2019 02:29
2-Methylphenol	< 9.62	ug/L		5/4/2019 02:29
2-Nitroaniline	< 19.2	ug/L		5/4/2019 02:29
2-Nitrophenol	< 9.62	ug/L		5/4/2019 02:29
3&4-Methylphenol	< 9.62	ug/L		5/4/2019 02:29
3,3'-Dichlorobenzidine	< 9.62	ug/L		5/4/2019 02:29
3-Nitroaniline	< 19.2	ug/L		5/4/2019 02:29
4,6-Dinitro-2-methylphenol	< 19.2	ug/L		5/4/2019 02:29
4-Bromophenyl phenyl ether	< 9.62	ug/L		5/4/2019 02:29
4-Chloro-3-methylphenol	< 9.62	ug/L		5/4/2019 02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.62	ug/L	5/4/2019	02:29
4-Chlorophenyl phenyl ether	< 9.62	ug/L	5/4/2019	02:29
4-Nitroaniline	< 19.2	ug/L	5/4/2019	02:29
4-Nitrophenol	< 19.2	ug/L	5/4/2019	02:29
Acenaphthene	< 9.62	ug/L	5/4/2019	02:29
Acenaphthylene	< 9.62	ug/L	5/4/2019	02:29
Acetophenone	< 9.62	ug/L	5/4/2019	02:29
Anthracene	< 9.62	ug/L	5/4/2019	02:29
Atrazine	< 9.62	ug/L	5/4/2019	02:29
Benzaldehyde	< 9.62	ug/L	5/4/2019	02:29
Benzo (a) anthracene	< 9.62	ug/L	5/4/2019	02:29
Benzo (a) pyrene	< 9.62	ug/L	5/4/2019	02:29
Benzo (b) fluoranthene	< 9.62	ug/L	5/4/2019	02:29
Benzo (g,h,i) perylene	< 9.62	ug/L	5/4/2019	02:29
Benzo (k) fluoranthene	< 9.62	ug/L	5/4/2019	02:29
Bis (2-chloroethoxy) methane	< 9.62	ug/L	5/4/2019	02:29
Bis (2-chloroethyl) ether	< 9.62	ug/L	5/4/2019	02:29
Bis (2-ethylhexyl) phthalate	< 9.62	ug/L	5/4/2019	02:29
Butylbenzylphthalate	< 9.62	ug/L	5/4/2019	02:29
Caprolactam	< 9.62	ug/L	5/4/2019	02:29
Carbazole	< 9.62	ug/L	5/4/2019	02:29
Chrysene	< 9.62	ug/L	5/4/2019	02:29
Dibenz (a,h) anthracene	< 9.62	ug/L	5/4/2019	02:29
Dibenzofuran	< 9.62	ug/L	5/4/2019	02:29
Diethyl phthalate	< 9.62	ug/L	5/4/2019	02:29
Dimethyl phthalate	< 19.2	ug/L	5/4/2019	02:29
Di-n-butyl phthalate	< 9.62	ug/L	5/4/2019	02:29
Di-n-octylphthalate	< 9.62	ug/L	5/4/2019	02:29
Fluoranthene	< 9.62	ug/L	5/4/2019	02:29
Fluorene	< 9.62	ug/L	5/4/2019	02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.62	ug/L	5/4/2019	02:29
Hexachlorobutadiene	< 9.62	ug/L	5/4/2019	02:29
Hexachlorocyclopentadiene	< 9.62	ug/L	5/4/2019	02:29
Hexachloroethane	< 9.62	ug/L	5/4/2019	02:29
Indeno (1,2,3-cd) pyrene	< 9.62	ug/L	5/4/2019	02:29
Isophorone	< 9.62	ug/L	5/4/2019	02:29
Naphthalene	< 9.62	ug/L	5/4/2019	02:29
Nitrobenzene	< 9.62	ug/L	5/4/2019	02:29
N-Nitroso-di-n-propylamine	< 9.62	ug/L	5/4/2019	02:29
N-Nitrosodiphenylamine	< 9.62	ug/L	5/4/2019	02:29
Pentachlorophenol	< 19.2	ug/L	5/4/2019	02:29
Phenanthrene	< 9.62	ug/L	5/4/2019	02:29
Phenol	< 9.62	ug/L	5/4/2019	02:29
Pyrene	< 9.62	ug/L	5/4/2019	02:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**88.1**	47.9 - 130		5/4/2019	02:29
2-Fluorobiphenyl	**43.3**	30.8 - 101		5/4/2019	02:29
2-Fluorophenol	**46.3**	10 - 113		5/4/2019	02:29
Nitrobenzene-d5	**70.9**	48.6 - 102		5/4/2019	02:29
Phenol-d5	**31.8**	10 - 111		5/4/2019	02:29
Terphenyl-d14	**86.6**	57.2 - 111		5/4/2019	02:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36724.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 16:57
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:57
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:57
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 16:57
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 16:57
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:57
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 16:57
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:57
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:57
1,4-Dioxane	< 20.0	ug/L		5/9/2019 16:57
2-Butanone	< 10.0	ug/L		5/9/2019 16:57
2-Hexanone	< 5.00	ug/L		5/9/2019 16:57
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 16:57
Acetone	< 10.0	ug/L		5/9/2019 16:57
Benzene	**1.12**	ug/L		5/9/2019 16:57
Bromochloromethane	< 5.00	ug/L		5/9/2019 16:57
Bromodichloromethane	< 2.00	ug/L		5/9/2019 16:57
Bromoform	< 5.00	ug/L		5/9/2019 16:57
Bromomethane	< 2.00	ug/L		5/9/2019 16:57
Carbon disulfide	< 2.00	ug/L		5/9/2019 16:57
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 16:57
Chlorobenzene	< 2.00	ug/L		5/9/2019 16:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	16:57
Chloroform	< 2.00	ug/L		5/9/2019	16:57
Chloromethane	< 2.00	ug/L		5/9/2019	16:57
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:57
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:57
Cyclohexane	< 10.0	ug/L		5/9/2019	16:57
Dibromochloromethane	< 2.00	ug/L		5/9/2019	16:57
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	16:57
Ethylbenzene	< 2.00	ug/L		5/9/2019	16:57
Freon 113	< 2.00	ug/L		5/9/2019	16:57
Isopropylbenzene	< 2.00	ug/L		5/9/2019	16:57
m,p-Xylene	< 2.00	ug/L		5/9/2019	16:57
Methyl acetate	< 2.00	ug/L		5/9/2019	16:57
Methyl tert-butyl Ether	**1.56**	ug/L	J	5/9/2019	16:57
Methylcyclohexane	< 2.00	ug/L		5/9/2019	16:57
Methylene chloride	< 5.00	ug/L		5/9/2019	16:57
o-Xylene	< 2.00	ug/L		5/9/2019	16:57
Styrene	< 5.00	ug/L		5/9/2019	16:57
Tetrachloroethene	< 2.00	ug/L		5/9/2019	16:57
Toluene	< 2.00	ug/L		5/9/2019	16:57
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:57
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:57
Trichloroethene	< 2.00	ug/L		5/9/2019	16:57
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	16:57
Vinyl chloride	< 2.00	ug/L		5/9/2019	16:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**100**	71.4 - 133		5/9/2019	16:57
4-Bromofluorobenzene	**76.4**	61.7 - 126		5/9/2019	16:57
Pentafluorobenzene	**97.1**	87.4 - 109		5/9/2019	16:57
Toluene-D8	**84.3**	82.3 - 112		5/9/2019	16:57

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60725.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.53	ug/L		5/4/2019 02:59
1,2,4,5-Tetrachlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,2,4-Trichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,2-Dichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,3-Dichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,4-Dichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
2,2-Oxybis (1-chloropropane)	< 9.53	ug/L		5/4/2019 02:59
2,3,4,6-Tetrachlorophenol	< 9.53	ug/L		5/4/2019 02:59
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 02:59
2,4,6-Trichlorophenol	< 9.53	ug/L		5/4/2019 02:59
2,4-Dichlorophenol	< 9.53	ug/L		5/4/2019 02:59
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 02:59
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 02:59
2,4-Dinitrotoluene	< 9.53	ug/L		5/4/2019 02:59
2,6-Dinitrotoluene	< 9.53	ug/L		5/4/2019 02:59
2-Chloronaphthalene	< 9.53	ug/L		5/4/2019 02:59
2-Chlorophenol	< 9.53	ug/L		5/4/2019 02:59
2-Methylnapthalene	< 9.53	ug/L		5/4/2019 02:59
2-Methylphenol	< 9.53	ug/L		5/4/2019 02:59
2-Nitroaniline	< 19.1	ug/L		5/4/2019 02:59
2-Nitrophenol	< 9.53	ug/L		5/4/2019 02:59
3&4-Methylphenol	< 9.53	ug/L		5/4/2019 02:59
3,3'-Dichlorobenzidine	< 9.53	ug/L		5/4/2019 02:59
3-Nitroaniline	< 19.1	ug/L		5/4/2019 02:59
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 02:59
4-Bromophenyl phenyl ether	< 9.53	ug/L		5/4/2019 02:59
4-Chloro-3-methylphenol	< 9.53	ug/L		5/4/2019 02:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.53	ug/L	5/4/2019	02:59
4-Chlorophenyl phenyl ether	< 9.53	ug/L	5/4/2019	02:59
4-Nitroaniline	< 19.1	ug/L	5/4/2019	02:59
4-Nitrophenol	< 19.1	ug/L	5/4/2019	02:59
Acenaphthene	< 9.53	ug/L	5/4/2019	02:59
Acenaphthylene	< 9.53	ug/L	5/4/2019	02:59
Acetophenone	< 9.53	ug/L	5/4/2019	02:59
Anthracene	< 9.53	ug/L	5/4/2019	02:59
Atrazine	< 9.53	ug/L	5/4/2019	02:59
Benzaldehyde	< 9.53	ug/L	5/4/2019	02:59
Benzo (a) anthracene	< 9.53	ug/L	5/4/2019	02:59
Benzo (a) pyrene	< 9.53	ug/L	5/4/2019	02:59
Benzo (b) fluoranthene	< 9.53	ug/L	5/4/2019	02:59
Benzo (g,h,i) perylene	< 9.53	ug/L	5/4/2019	02:59
Benzo (k) fluoranthene	< 9.53	ug/L	5/4/2019	02:59
Bis (2-chloroethoxy) methane	< 9.53	ug/L	5/4/2019	02:59
Bis (2-chloroethyl) ether	< 9.53	ug/L	5/4/2019	02:59
Bis (2-ethylhexyl) phthalate	< 9.53	ug/L	5/4/2019	02:59
Butylbenzylphthalate	< 9.53	ug/L	5/4/2019	02:59
Caprolactam	< 9.53	ug/L	5/4/2019	02:59
Carbazole	< 9.53	ug/L	5/4/2019	02:59
Chrysene	< 9.53	ug/L	5/4/2019	02:59
Dibenz (a,h) anthracene	< 9.53	ug/L	5/4/2019	02:59
Dibenzofuran	< 9.53	ug/L	5/4/2019	02:59
Diethyl phthalate	< 9.53	ug/L	5/4/2019	02:59
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	02:59
Di-n-butyl phthalate	< 9.53	ug/L	5/4/2019	02:59
Di-n-octylphthalate	< 9.53	ug/L	5/4/2019	02:59
Fluoranthene	< 9.53	ug/L	5/4/2019	02:59
Fluorene	< 9.53	ug/L	5/4/2019	02:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.53	ug/L	5/4/2019	02:59
Hexachlorobutadiene	< 9.53	ug/L	5/4/2019	02:59
Hexachlorocyclopentadiene	< 9.53	ug/L	5/4/2019	02:59
Hexachloroethane	< 9.53	ug/L	5/4/2019	02:59
Indeno (1,2,3-cd) pyrene	< 9.53	ug/L	5/4/2019	02:59
Isophorone	< 9.53	ug/L	5/4/2019	02:59
Naphthalene	< 9.53	ug/L	5/4/2019	02:59
Nitrobenzene	< 9.53	ug/L	5/4/2019	02:59
N-Nitroso-di-n-propylamine	< 9.53	ug/L	5/4/2019	02:59
N-Nitrosodiphenylamine	< 9.53	ug/L	5/4/2019	02:59
Pentachlorophenol	< 19.1	ug/L	5/4/2019	02:59
Phenanthrene	< 9.53	ug/L	5/4/2019	02:59
Phenol	< 9.53	ug/L	5/4/2019	02:59
Pyrene	< 9.53	ug/L	5/4/2019	02:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**82.6**	47.9 - 130		5/4/2019	02:59
2-Fluorobiphenyl	**35.2**	30.8 - 101		5/4/2019	02:59
2-Fluorophenol	**37.1**	10 - 113		5/4/2019	02:59
Nitrobenzene-d5	**62.9**	48.6 - 102		5/4/2019	02:59
Phenol-d5	**26.4**	10 - 111		5/4/2019	02:59
Terphenyl-d14	**80.6**	57.2 - 111		5/4/2019	02:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36725.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 15:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 15:49
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 15:49
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:49
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 15:49
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:49
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:49
1,4-Dioxane	< 20.0	ug/L		5/9/2019 15:49
2-Butanone	< 10.0	ug/L		5/9/2019 15:49
2-Hexanone	< 5.00	ug/L		5/9/2019 15:49
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 15:49
Acetone	< 10.0	ug/L		5/9/2019 15:49
Benzene	< 1.00	ug/L		5/9/2019 15:49
Bromochloromethane	< 5.00	ug/L		5/9/2019 15:49
Bromodichloromethane	< 2.00	ug/L		5/9/2019 15:49
Bromoform	< 5.00	ug/L		5/9/2019 15:49
Bromomethane	< 2.00	ug/L		5/9/2019 15:49
Carbon disulfide	< 2.00	ug/L		5/9/2019 15:49
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 15:49
Chlorobenzene	< 2.00	ug/L		5/9/2019 15:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	15:49
Chloroform	< 2.00	ug/L		5/9/2019	15:49
Chloromethane	< 2.00	ug/L		5/9/2019	15:49
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	15:49
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	15:49
Cyclohexane	< 10.0	ug/L		5/9/2019	15:49
Dibromochloromethane	< 2.00	ug/L		5/9/2019	15:49
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	15:49
Ethylbenzene	**4.72**	ug/L	M	5/9/2019	15:49
Freon 113	< 2.00	ug/L		5/9/2019	15:49
Isopropylbenzene	< 2.00	ug/L		5/9/2019	15:49
m,p-Xylene	**2.62**	ug/L		5/9/2019	15:49
Methyl acetate	< 2.00	ug/L		5/9/2019	15:49
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	15:49
Methylcyclohexane	< 2.00	ug/L		5/9/2019	15:49
Methylene chloride	< 5.00	ug/L		5/9/2019	15:49
o-Xylene	< 2.00	ug/L		5/9/2019	15:49
Styrene	< 5.00	ug/L		5/9/2019	15:49
Tetrachloroethene	< 2.00	ug/L		5/9/2019	15:49
Toluene	< 2.00	ug/L		5/9/2019	15:49
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	15:49
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	15:49
Trichloroethene	< 2.00	ug/L		5/9/2019	15:49
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	15:49
Vinyl chloride	< 2.00	ug/L		5/9/2019	15:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**99.7**	71.4 - 133		5/9/2019	15:49
4-Bromofluorobenzene	**87.3**	61.7 - 126		5/9/2019	15:49
Pentafluorobenzene	**90.4**	87.4 - 109		5/9/2019	15:49
Toluene-D8	**88.2**	82.3 - 112		5/9/2019	15:49

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60722.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.67	ug/L		5/4/2019 04:29
1,2,4,5-Tetrachlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,2,4-Trichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,2-Dichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,3-Dichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,4-Dichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
2,2-Oxybis (1-chloropropane)	< 9.67	ug/L		5/4/2019 04:29
2,3,4,6-Tetrachlorophenol	< 9.67	ug/L		5/4/2019 04:29
2,4,5-Trichlorophenol	< 19.3	ug/L		5/4/2019 04:29
2,4,6-Trichlorophenol	< 9.67	ug/L		5/4/2019 04:29
2,4-Dichlorophenol	< 9.67	ug/L		5/4/2019 04:29
2,4-Dimethylphenol	< 19.3	ug/L		5/4/2019 04:29
2,4-Dinitrophenol	< 19.3	ug/L		5/4/2019 04:29
2,4-Dinitrotoluene	< 9.67	ug/L		5/4/2019 04:29
2,6-Dinitrotoluene	< 9.67	ug/L		5/4/2019 04:29
2-Chloronaphthalene	< 9.67	ug/L		5/4/2019 04:29
2-Chlorophenol	< 9.67	ug/L		5/4/2019 04:29
2-Methylnapthalene	**9.29**	ug/L	J	5/4/2019 04:29
2-Methylphenol	< 9.67	ug/L		5/4/2019 04:29
2-Nitroaniline	< 19.3	ug/L		5/4/2019 04:29
2-Nitrophenol	< 9.67	ug/L		5/4/2019 04:29
3&4-Methylphenol	< 9.67	ug/L		5/4/2019 04:29
3,3'-Dichlorobenzidine	< 9.67	ug/L		5/4/2019 04:29
3-Nitroaniline	< 19.3	ug/L		5/4/2019 04:29
4,6-Dinitro-2-methylphenol	< 19.3	ug/L		5/4/2019 04:29
4-Bromophenyl phenyl ether	< 9.67	ug/L		5/4/2019 04:29
4-Chloro-3-methylphenol	< 9.67	ug/L		5/4/2019 04:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.67	ug/L	5/4/2019	04:29
4-Chlorophenyl phenyl ether	< 9.67	ug/L	5/4/2019	04:29
4-Nitroaniline	< 19.3	ug/L	5/4/2019	04:29
4-Nitrophenol	< 19.3	ug/L	5/4/2019	04:29
Acenaphthene	< 9.67	ug/L	5/4/2019	04:29
Acenaphthylene	< 9.67	ug/L	5/4/2019	04:29
Acetophenone	< 9.67	ug/L	5/4/2019	04:29
Anthracene	< 9.67	ug/L	5/4/2019	04:29
Atrazine	< 9.67	ug/L	5/4/2019	04:29
Benzaldehyde	< 9.67	ug/L	5/4/2019	04:29
Benzo (a) anthracene	< 9.67	ug/L	5/4/2019	04:29
Benzo (a) pyrene	< 9.67	ug/L	5/4/2019	04:29
Benzo (b) fluoranthene	< 9.67	ug/L	5/4/2019	04:29
Benzo (g,h,i) perylene	< 9.67	ug/L	5/4/2019	04:29
Benzo (k) fluoranthene	< 9.67	ug/L	5/4/2019	04:29
Bis (2-chloroethoxy) methane	< 9.67	ug/L	5/4/2019	04:29
Bis (2-chloroethyl) ether	< 9.67	ug/L	5/4/2019	04:29
Bis (2-ethylhexyl) phthalate	< 9.67	ug/L	5/4/2019	04:29
Butylbenzylphthalate	< 9.67	ug/L	5/4/2019	04:29
Caprolactam	< 9.67	ug/L	5/4/2019	04:29
Carbazole	< 9.67	ug/L	5/4/2019	04:29
Chrysene	< 9.67	ug/L	5/4/2019	04:29
Dibenz (a,h) anthracene	< 9.67	ug/L	5/4/2019	04:29
Dibenzofuran	< 9.67	ug/L	5/4/2019	04:29
Diethyl phthalate	< 9.67	ug/L	5/4/2019	04:29
Dimethyl phthalate	< 19.3	ug/L	5/4/2019	04:29
Di-n-butyl phthalate	< 9.67	ug/L	5/4/2019	04:29
Di-n-octylphthalate	< 9.67	ug/L	5/4/2019	04:29
Fluoranthene	< 9.67	ug/L	5/4/2019	04:29
Fluorene	< 9.67	ug/L	5/4/2019	04:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.67	ug/L	5/4/2019	04:29
Hexachlorobutadiene	< 9.67	ug/L	5/4/2019	04:29
Hexachlorocyclopentadiene	< 9.67	ug/L	5/4/2019	04:29
Hexachloroethane	< 9.67	ug/L	5/4/2019	04:29
Indeno (1,2,3-cd) pyrene	< 9.67	ug/L	5/4/2019	04:29
Isophorone	< 9.67	ug/L	5/4/2019	04:29
Naphthalene	**10.3**	ug/L	5/4/2019	04:29
Nitrobenzene	< 9.67	ug/L	5/4/2019	04:29
N-Nitroso-di-n-propylamine	< 9.67	ug/L	5/4/2019	04:29
N-Nitrosodiphenylamine	< 9.67	ug/L	5/4/2019	04:29
Pentachlorophenol	< 19.3	ug/L	5/4/2019	04:29
Phenanthrene	< 9.67	ug/L	5/4/2019	04:29
Phenol	< 9.67	ug/L	5/4/2019	04:29
Pyrene	< 9.67	ug/L	5/4/2019	04:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.9**	47.9 - 130		5/4/2019	04:29
2-Fluorobiphenyl	**53.6**	30.8 - 101		5/4/2019	04:29
2-Fluorophenol	**41.7**	10 - 113		5/4/2019	04:29
Nitrobenzene-d5	**66.7**	48.6 - 102		5/4/2019	04:29
Phenol-d5	**28.7**	10 - 111		5/4/2019	04:29
Terphenyl-d14	**81.5**	57.2 - 111		5/4/2019	04:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36728.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 7R		
Lab Sample ID:	191889-04	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 17:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 17:20
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 17:20
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:20
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 17:20
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:20
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:20
1,4-Dioxane	< 20.0	ug/L		5/9/2019 17:20
2-Butanone	< 10.0	ug/L		5/9/2019 17:20
2-Hexanone	< 5.00	ug/L		5/9/2019 17:20
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 17:20
Acetone	< 10.0	ug/L		5/9/2019 17:20
Benzene	**2.72**	ug/L		5/9/2019 17:20
Bromochloromethane	< 5.00	ug/L		5/9/2019 17:20
Bromodichloromethane	< 2.00	ug/L		5/9/2019 17:20
Bromoform	< 5.00	ug/L		5/9/2019 17:20
Bromomethane	< 2.00	ug/L		5/9/2019 17:20
Carbon disulfide	< 2.00	ug/L		5/9/2019 17:20
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 17:20
Chlorobenzene	< 2.00	ug/L		5/9/2019 17:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	17:20
Chloroform	< 2.00	ug/L		5/9/2019	17:20
Chloromethane	< 2.00	ug/L		5/9/2019	17:20
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:20
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:20
Cyclohexane	< 10.0	ug/L		5/9/2019	17:20
Dibromochloromethane	< 2.00	ug/L		5/9/2019	17:20
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	17:20
Ethylbenzene	**26.9**	ug/L		5/9/2019	17:20
Freon 113	< 2.00	ug/L		5/9/2019	17:20
Isopropylbenzene	**2.35**	ug/L		5/9/2019	17:20
m,p-Xylene	**28.8**	ug/L		5/9/2019	17:20
Methyl acetate	< 2.00	ug/L		5/9/2019	17:20
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	17:20
Methylcyclohexane	**1.52**	ug/L	J	5/9/2019	17:20
Methylene chloride	< 5.00	ug/L		5/9/2019	17:20
o-Xylene	**3.24**	ug/L		5/9/2019	17:20
Styrene	< 5.00	ug/L		5/9/2019	17:20
Tetrachloroethene	< 2.00	ug/L		5/9/2019	17:20
Toluene	< 2.00	ug/L		5/9/2019	17:20
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:20
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:20
Trichloroethene	< 2.00	ug/L		5/9/2019	17:20
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	17:20
Vinyl chloride	< 2.00	ug/L		5/9/2019	17:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**95.4**	71.4 - 133		5/9/2019	17:20
4-Bromofluorobenzene	**93.3**	61.7 - 126		5/9/2019	17:20
Pentafluorobenzene	**97.0**	87.4 - 109		5/9/2019	17:20
Toluene-D8	**97.5**	82.3 - 112		5/9/2019	17:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60726.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.62	ug/L		5/4/2019 04:59
1,2,4,5-Tetrachlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,2,4-Trichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,2-Dichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,3-Dichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,4-Dichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
2,2-Oxybis (1-chloropropane)	< 9.62	ug/L		5/4/2019 04:59
2,3,4,6-Tetrachlorophenol	< 9.62	ug/L		5/4/2019 04:59
2,4,5-Trichlorophenol	< 19.2	ug/L		5/4/2019 04:59
2,4,6-Trichlorophenol	< 9.62	ug/L		5/4/2019 04:59
2,4-Dichlorophenol	< 9.62	ug/L		5/4/2019 04:59
2,4-Dimethylphenol	< 19.2	ug/L		5/4/2019 04:59
2,4-Dinitrophenol	< 19.2	ug/L		5/4/2019 04:59
2,4-Dinitrotoluene	< 9.62	ug/L		5/4/2019 04:59
2,6-Dinitrotoluene	< 9.62	ug/L		5/4/2019 04:59
2-Chloronaphthalene	< 9.62	ug/L		5/4/2019 04:59
2-Chlorophenol	< 9.62	ug/L		5/4/2019 04:59
2-Methylnapthalene	**9.91**	ug/L		5/4/2019 04:59
2-Methylphenol	< 9.62	ug/L		5/4/2019 04:59
2-Nitroaniline	< 19.2	ug/L		5/4/2019 04:59
2-Nitrophenol	< 9.62	ug/L		5/4/2019 04:59
3&4-Methylphenol	< 9.62	ug/L		5/4/2019 04:59
3,3'-Dichlorobenzidine	< 9.62	ug/L		5/4/2019 04:59
3-Nitroaniline	< 19.2	ug/L		5/4/2019 04:59
4,6-Dinitro-2-methylphenol	< 19.2	ug/L		5/4/2019 04:59
4-Bromophenyl phenyl ether	< 9.62	ug/L		5/4/2019 04:59
4-Chloro-3-methylphenol	< 9.62	ug/L		5/4/2019 04:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.62	ug/L	5/4/2019	04:59
4-Chlorophenyl phenyl ether	< 9.62	ug/L	5/4/2019	04:59
4-Nitroaniline	< 19.2	ug/L	5/4/2019	04:59
4-Nitrophenol	< 19.2	ug/L	5/4/2019	04:59
Acenaphthene	< 9.62	ug/L	5/4/2019	04:59
Acenaphthylene	< 9.62	ug/L	5/4/2019	04:59
Acetophenone	< 9.62	ug/L	5/4/2019	04:59
Anthracene	< 9.62	ug/L	5/4/2019	04:59
Atrazine	< 9.62	ug/L	5/4/2019	04:59
Benzaldehyde	< 9.62	ug/L	5/4/2019	04:59
Benzo (a) anthracene	< 9.62	ug/L	5/4/2019	04:59
Benzo (a) pyrene	< 9.62	ug/L	5/4/2019	04:59
Benzo (b) fluoranthene	< 9.62	ug/L	5/4/2019	04:59
Benzo (g,h,i) perylene	< 9.62	ug/L	5/4/2019	04:59
Benzo (k) fluoranthene	< 9.62	ug/L	5/4/2019	04:59
Bis (2-chloroethoxy) methane	< 9.62	ug/L	5/4/2019	04:59
Bis (2-chloroethyl) ether	< 9.62	ug/L	5/4/2019	04:59
Bis (2-ethylhexyl) phthalate	< 9.62	ug/L	5/4/2019	04:59
Butylbenzylphthalate	< 9.62	ug/L	5/4/2019	04:59
Caprolactam	< 9.62	ug/L	5/4/2019	04:59
Carbazole	< 9.62	ug/L	5/4/2019	04:59
Chrysene	< 9.62	ug/L	5/4/2019	04:59
Dibenz (a,h) anthracene	< 9.62	ug/L	5/4/2019	04:59
Dibenzofuran	< 9.62	ug/L	5/4/2019	04:59
Diethyl phthalate	< 9.62	ug/L	5/4/2019	04:59
Dimethyl phthalate	< 19.2	ug/L	5/4/2019	04:59
Di-n-butyl phthalate	< 9.62	ug/L	5/4/2019	04:59
Di-n-octylphthalate	< 9.62	ug/L	5/4/2019	04:59
Fluoranthene	< 9.62	ug/L	5/4/2019	04:59
Fluorene	< 9.62	ug/L	5/4/2019	04:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.62	ug/L	5/4/2019	04:59
Hexachlorobutadiene	< 9.62	ug/L	5/4/2019	04:59
Hexachlorocyclopentadiene	< 9.62	ug/L	5/4/2019	04:59
Hexachloroethane	< 9.62	ug/L	5/4/2019	04:59
Indeno (1,2,3-cd) pyrene	< 9.62	ug/L	5/4/2019	04:59
Isophorone	< 9.62	ug/L	5/4/2019	04:59
Naphthalene	**11.3**	ug/L	5/4/2019	04:59
Nitrobenzene	< 9.62	ug/L	5/4/2019	04:59
N-Nitroso-di-n-propylamine	< 9.62	ug/L	5/4/2019	04:59
N-Nitrosodiphenylamine	< 9.62	ug/L	5/4/2019	04:59
Pentachlorophenol	< 19.2	ug/L	5/4/2019	04:59
Phenanthrene	< 9.62	ug/L	5/4/2019	04:59
Phenol	< 9.62	ug/L	5/4/2019	04:59
Pyrene	< 9.62	ug/L	5/4/2019	04:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**92.5**	47.9 - 130		5/4/2019	04:59
2-Fluorobiphenyl	**54.2**	30.8 - 101		5/4/2019	04:59
2-Fluorophenol	**45.2**	10 - 113		5/4/2019	04:59
Nitrobenzene-d5	**73.1**	48.6 - 102		5/4/2019	04:59
Phenol-d5	**31.2**	10 - 111		5/4/2019	04:59
Terphenyl-d14	**87.1**	57.2 - 111		5/4/2019	04:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36729.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	Blind Duplicate (DUP)		
Lab Sample ID:	191889-05	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 17:42
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:42
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:42
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 17:42
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 17:42
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:42
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 17:42
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:42
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:42
1,4-Dioxane	< 20.0	ug/L		5/9/2019 17:42
2-Butanone	< 10.0	ug/L		5/9/2019 17:42
2-Hexanone	< 5.00	ug/L		5/9/2019 17:42
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 17:42
Acetone	< 10.0	ug/L		5/9/2019 17:42
Benzene	**2.69**	ug/L		5/9/2019 17:42
Bromochloromethane	< 5.00	ug/L		5/9/2019 17:42
Bromodichloromethane	< 2.00	ug/L		5/9/2019 17:42
Bromoform	< 5.00	ug/L		5/9/2019 17:42
Bromomethane	< 2.00	ug/L		5/9/2019 17:42
Carbon disulfide	< 2.00	ug/L		5/9/2019 17:42
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 17:42
Chlorobenzene	< 2.00	ug/L		5/9/2019 17:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	17:42
Chloroform	< 2.00	ug/L		5/9/2019	17:42
Chloromethane	< 2.00	ug/L		5/9/2019	17:42
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:42
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:42
Cyclohexane	< 10.0	ug/L		5/9/2019	17:42
Dibromochloromethane	< 2.00	ug/L		5/9/2019	17:42
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	17:42
Ethylbenzene	**23.6**	ug/L		5/9/2019	17:42
Freon 113	< 2.00	ug/L		5/9/2019	17:42
Isopropylbenzene	**2.10**	ug/L		5/9/2019	17:42
m,p-Xylene	**25.2**	ug/L		5/9/2019	17:42
Methyl acetate	< 2.00	ug/L		5/9/2019	17:42
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	17:42
Methylcyclohexane	**1.05**	ug/L	J	5/9/2019	17:42
Methylene chloride	< 5.00	ug/L		5/9/2019	17:42
o-Xylene	**3.03**	ug/L		5/9/2019	17:42
Styrene	< 5.00	ug/L		5/9/2019	17:42
Tetrachloroethene	< 2.00	ug/L		5/9/2019	17:42
Toluene	< 2.00	ug/L		5/9/2019	17:42
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:42
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:42
Trichloroethene	< 2.00	ug/L		5/9/2019	17:42
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	17:42
Vinyl chloride	< 2.00	ug/L		5/9/2019	17:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**94.2**	71.4 - 133		5/9/2019	17:42
4-Bromofluorobenzene	**92.0**	61.7 - 126		5/9/2019	17:42
Pentafluorobenzene	**100**	87.4 - 109		5/9/2019	17:42
Toluene-D8	**97.3**	82.3 - 112		5/9/2019	17:42

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60727.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.53	ug/L		5/4/2019 05:29
1,2,4,5-Tetrachlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,2,4-Trichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,2-Dichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,3-Dichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,4-Dichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
2,2-Oxybis (1-chloropropane)	< 9.53	ug/L		5/4/2019 05:29
2,3,4,6-Tetrachlorophenol	< 9.53	ug/L		5/4/2019 05:29
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 05:29
2,4,6-Trichlorophenol	< 9.53	ug/L		5/4/2019 05:29
2,4-Dichlorophenol	< 9.53	ug/L		5/4/2019 05:29
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 05:29
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 05:29
2,4-Dinitrotoluene	< 9.53	ug/L		5/4/2019 05:29
2,6-Dinitrotoluene	< 9.53	ug/L		5/4/2019 05:29
2-Chloronaphthalene	< 9.53	ug/L		5/4/2019 05:29
2-Chlorophenol	< 9.53	ug/L		5/4/2019 05:29
2-Methylnapthalene	< 9.53	ug/L		5/4/2019 05:29
2-Methylphenol	< 9.53	ug/L		5/4/2019 05:29
2-Nitroaniline	< 19.1	ug/L		5/4/2019 05:29
2-Nitrophenol	< 9.53	ug/L		5/4/2019 05:29
3&4-Methylphenol	< 9.53	ug/L		5/4/2019 05:29
3,3'-Dichlorobenzidine	< 9.53	ug/L		5/4/2019 05:29
3-Nitroaniline	< 19.1	ug/L		5/4/2019 05:29
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 05:29
4-Bromophenyl phenyl ether	< 9.53	ug/L		5/4/2019 05:29
4-Chloro-3-methylphenol	< 9.53	ug/L		5/4/2019 05:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.53	ug/L	5/4/2019	05:29
4-Chlorophenyl phenyl ether	< 9.53	ug/L	5/4/2019	05:29
4-Nitroaniline	< 19.1	ug/L	5/4/2019	05:29
4-Nitrophenol	< 19.1	ug/L	5/4/2019	05:29
Acenaphthene	< 9.53	ug/L	5/4/2019	05:29
Acenaphthylene	< 9.53	ug/L	5/4/2019	05:29
Acetophenone	< 9.53	ug/L	5/4/2019	05:29
Anthracene	< 9.53	ug/L	5/4/2019	05:29
Atrazine	< 9.53	ug/L	5/4/2019	05:29
Benzaldehyde	< 9.53	ug/L	5/4/2019	05:29
Benzo (a) anthracene	< 9.53	ug/L	5/4/2019	05:29
Benzo (a) pyrene	< 9.53	ug/L	5/4/2019	05:29
Benzo (b) fluoranthene	< 9.53	ug/L	5/4/2019	05:29
Benzo (g,h,i) perylene	< 9.53	ug/L	5/4/2019	05:29
Benzo (k) fluoranthene	< 9.53	ug/L	5/4/2019	05:29
Bis (2-chloroethoxy) methane	< 9.53	ug/L	5/4/2019	05:29
Bis (2-chloroethyl) ether	< 9.53	ug/L	5/4/2019	05:29
Bis (2-ethylhexyl) phthalate	< 9.53	ug/L	5/4/2019	05:29
Butylbenzylphthalate	< 9.53	ug/L	5/4/2019	05:29
Caprolactam	< 9.53	ug/L	5/4/2019	05:29
Carbazole	< 9.53	ug/L	5/4/2019	05:29
Chrysene	< 9.53	ug/L	5/4/2019	05:29
Dibenz (a,h) anthracene	< 9.53	ug/L	5/4/2019	05:29
Dibenzofuran	< 9.53	ug/L	5/4/2019	05:29
Diethyl phthalate	< 9.53	ug/L	5/4/2019	05:29
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	05:29
Di-n-butyl phthalate	< 9.53	ug/L	5/4/2019	05:29
Di-n-octylphthalate	< 9.53	ug/L	5/4/2019	05:29
Fluoranthene	< 9.53	ug/L	5/4/2019	05:29
Fluorene	< 9.53	ug/L	5/4/2019	05:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.53	ug/L	5/4/2019	05:29
Hexachlorobutadiene	< 9.53	ug/L	5/4/2019	05:29
Hexachlorocyclopentadiene	< 9.53	ug/L	5/4/2019	05:29
Hexachloroethane	< 9.53	ug/L	5/4/2019	05:29
Indeno (1,2,3-cd) pyrene	< 9.53	ug/L	5/4/2019	05:29
Isophorone	< 9.53	ug/L	5/4/2019	05:29
Naphthalene	< 9.53	ug/L	5/4/2019	05:29
Nitrobenzene	< 9.53	ug/L	5/4/2019	05:29
N-Nitroso-di-n-propylamine	< 9.53	ug/L	5/4/2019	05:29
N-Nitrosodiphenylamine	< 9.53	ug/L	5/4/2019	05:29
Pentachlorophenol	< 19.1	ug/L	5/4/2019	05:29
Phenanthrene	< 9.53	ug/L	5/4/2019	05:29
Phenol	< 9.53	ug/L	5/4/2019	05:29
Pyrene	< 9.53	ug/L	5/4/2019	05:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.3**	47.9 - 130		5/4/2019	05:29
2-Fluorobiphenyl	**50.0**	30.8 - 101		5/4/2019	05:29
2-Fluorophenol	**44.0**	10 - 113		5/4/2019	05:29
Nitrobenzene-d5	**72.9**	48.6 - 102		5/4/2019	05:29
Phenol-d5	**30.2**	10 - 111		5/4/2019	05:29
Terphenyl-d14	**87.9**	57.2 - 111		5/4/2019	05:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36730.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 18:05
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:05
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:05
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 18:05
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 18:05
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:05
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 18:05
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:05
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:05
1,4-Dioxane	< 20.0	ug/L		5/9/2019 18:05
2-Butanone	< 10.0	ug/L		5/9/2019 18:05
2-Hexanone	< 5.00	ug/L		5/9/2019 18:05
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 18:05
Acetone	< 10.0	ug/L		5/9/2019 18:05
Benzene	< 1.00	ug/L		5/9/2019 18:05
Bromochloromethane	< 5.00	ug/L		5/9/2019 18:05
Bromodichloromethane	< 2.00	ug/L		5/9/2019 18:05
Bromoform	< 5.00	ug/L		5/9/2019 18:05
Bromomethane	< 2.00	ug/L		5/9/2019 18:05
Carbon disulfide	< 2.00	ug/L		5/9/2019 18:05
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 18:05
Chlorobenzene	< 2.00	ug/L		5/9/2019 18:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	18:05
Chloroform	< 2.00	ug/L	5/9/2019	18:05
Chloromethane	< 2.00	ug/L	5/9/2019	18:05
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:05
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:05
Cyclohexane	< 10.0	ug/L	5/9/2019	18:05
Dibromochloromethane	< 2.00	ug/L	5/9/2019	18:05
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	18:05
Ethylbenzene	< 2.00	ug/L	5/9/2019	18:05
Freon 113	< 2.00	ug/L	5/9/2019	18:05
Isopropylbenzene	< 2.00	ug/L	5/9/2019	18:05
m,p-Xylene	< 2.00	ug/L	5/9/2019	18:05
Methyl acetate	< 2.00	ug/L	5/9/2019	18:05
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	18:05
Methylcyclohexane	< 2.00	ug/L	5/9/2019	18:05
Methylene chloride	< 5.00	ug/L	5/9/2019	18:05
o-Xylene	< 2.00	ug/L	5/9/2019	18:05
Styrene	< 5.00	ug/L	5/9/2019	18:05
Tetrachloroethene	< 2.00	ug/L	5/9/2019	18:05
Toluene	< 2.00	ug/L	5/9/2019	18:05
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:05
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:05
Trichloroethene	< 2.00	ug/L	5/9/2019	18:05
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	18:05
Vinyl chloride	< 2.00	ug/L	5/9/2019	18:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**94.2**	71.4 - 133		5/9/2019	18:05
4-Bromofluorobenzene	**76.4**	61.7 - 126		5/9/2019	18:05
Pentafluorobenzene	**100**	87.4 - 109		5/9/2019	18:05
Toluene-D8	**89.6**	82.3 - 112		5/9/2019	18:05

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60728.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.57	ug/L		5/4/2019 05:58
1,2,4,5-Tetrachlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,2,4-Trichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,2-Dichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,3-Dichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,4-Dichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
2,2-Oxybis (1-chloropropane)	< 9.57	ug/L		5/4/2019 05:58
2,3,4,6-Tetrachlorophenol	< 9.57	ug/L		5/4/2019 05:58
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 05:58
2,4,6-Trichlorophenol	< 9.57	ug/L		5/4/2019 05:58
2,4-Dichlorophenol	< 9.57	ug/L		5/4/2019 05:58
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 05:58
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 05:58
2,4-Dinitrotoluene	< 9.57	ug/L		5/4/2019 05:58
2,6-Dinitrotoluene	< 9.57	ug/L		5/4/2019 05:58
2-Chloronaphthalene	< 9.57	ug/L		5/4/2019 05:58
2-Chlorophenol	< 9.57	ug/L		5/4/2019 05:58
2-Methylnapthalene	< 9.57	ug/L		5/4/2019 05:58
2-Methylphenol	< 9.57	ug/L		5/4/2019 05:58
2-Nitroaniline	< 19.1	ug/L		5/4/2019 05:58
2-Nitrophenol	< 9.57	ug/L		5/4/2019 05:58
3&4-Methylphenol	< 9.57	ug/L		5/4/2019 05:58
3,3'-Dichlorobenzidine	< 9.57	ug/L		5/4/2019 05:58
3-Nitroaniline	< 19.1	ug/L		5/4/2019 05:58
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 05:58
4-Bromophenyl phenyl ether	< 9.57	ug/L		5/4/2019 05:58
4-Chloro-3-methylphenol	< 9.57	ug/L		5/4/2019 05:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.57	ug/L	5/4/2019	05:58
4-Chlorophenyl phenyl ether	< 9.57	ug/L	5/4/2019	05:58
4-Nitroaniline	< 19.1	ug/L	5/4/2019	05:58
4-Nitrophenol	< 19.1	ug/L	5/4/2019	05:58
Acenaphthene	< 9.57	ug/L	5/4/2019	05:58
Acenaphthylene	< 9.57	ug/L	5/4/2019	05:58
Acetophenone	< 9.57	ug/L	5/4/2019	05:58
Anthracene	< 9.57	ug/L	5/4/2019	05:58
Atrazine	< 9.57	ug/L	5/4/2019	05:58
Benzaldehyde	< 9.57	ug/L	5/4/2019	05:58
Benzo (a) anthracene	< 9.57	ug/L	5/4/2019	05:58
Benzo (a) pyrene	< 9.57	ug/L	5/4/2019	05:58
Benzo (b) fluoranthene	< 9.57	ug/L	5/4/2019	05:58
Benzo (g,h,i) perylene	< 9.57	ug/L	5/4/2019	05:58
Benzo (k) fluoranthene	< 9.57	ug/L	5/4/2019	05:58
Bis (2-chloroethoxy) methane	< 9.57	ug/L	5/4/2019	05:58
Bis (2-chloroethyl) ether	< 9.57	ug/L	5/4/2019	05:58
Bis (2-ethylhexyl) phthalate	< 9.57	ug/L	5/4/2019	05:58
Butylbenzylphthalate	< 9.57	ug/L	5/4/2019	05:58
Caprolactam	< 9.57	ug/L	5/4/2019	05:58
Carbazole	< 9.57	ug/L	5/4/2019	05:58
Chrysene	< 9.57	ug/L	5/4/2019	05:58
Dibenz (a,h) anthracene	< 9.57	ug/L	5/4/2019	05:58
Dibenzofuran	< 9.57	ug/L	5/4/2019	05:58
Diethyl phthalate	< 9.57	ug/L	5/4/2019	05:58
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	05:58
Di-n-butyl phthalate	< 9.57	ug/L	5/4/2019	05:58
Di-n-octylphthalate	< 9.57	ug/L	5/4/2019	05:58
Fluoranthene	< 9.57	ug/L	5/4/2019	05:58
Fluorene	< 9.57	ug/L	5/4/2019	05:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.57	ug/L	5/4/2019	05:58
Hexachlorobutadiene	< 9.57	ug/L	5/4/2019	05:58
Hexachlorocyclopentadiene	< 9.57	ug/L	5/4/2019	05:58
Hexachloroethane	< 9.57	ug/L	5/4/2019	05:58
Indeno (1,2,3-cd) pyrene	< 9.57	ug/L	5/4/2019	05:58
Isophorone	< 9.57	ug/L	5/4/2019	05:58
Naphthalene	< 9.57	ug/L	5/4/2019	05:58
Nitrobenzene	< 9.57	ug/L	5/4/2019	05:58
N-Nitroso-di-n-propylamine	< 9.57	ug/L	5/4/2019	05:58
N-Nitrosodiphenylamine	< 9.57	ug/L	5/4/2019	05:58
Pentachlorophenol	< 19.1	ug/L	5/4/2019	05:58
Phenanthrene	< 9.57	ug/L	5/4/2019	05:58
Phenol	< 9.57	ug/L	5/4/2019	05:58
Pyrene	< 9.57	ug/L	5/4/2019	05:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.0**	47.9 - 130		5/4/2019	05:58
2-Fluorobiphenyl	**39.4**	30.8 - 101		5/4/2019	05:58
2-Fluorophenol	**44.6**	10 - 113		5/4/2019	05:58
Nitrobenzene-d5	**73.9**	48.6 - 102		5/4/2019	05:58
Phenol-d5	**30.2**	10 - 111		5/4/2019	05:58
Terphenyl-d14	**84.4**	57.2 - 111		5/4/2019	05:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36731.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 9R		
Lab Sample ID:	191889-07	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 18:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 18:27
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 18:27
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:27
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 18:27
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:27
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:27
1,4-Dioxane	< 20.0	ug/L		5/9/2019 18:27
2-Butanone	< 10.0	ug/L		5/9/2019 18:27
2-Hexanone	< 5.00	ug/L		5/9/2019 18:27
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 18:27
Acetone	< 10.0	ug/L		5/9/2019 18:27
Benzene	< 1.00	ug/L		5/9/2019 18:27
Bromochloromethane	< 5.00	ug/L		5/9/2019 18:27
Bromodichloromethane	< 2.00	ug/L		5/9/2019 18:27
Bromoform	< 5.00	ug/L		5/9/2019 18:27
Bromomethane	< 2.00	ug/L		5/9/2019 18:27
Carbon disulfide	< 2.00	ug/L		5/9/2019 18:27
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 18:27
Chlorobenzene	< 2.00	ug/L		5/9/2019 18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	18:27
Chloroform	< 2.00	ug/L	5/9/2019	18:27
Chloromethane	< 2.00	ug/L	5/9/2019	18:27
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:27
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:27
Cyclohexane	< 10.0	ug/L	5/9/2019	18:27
Dibromochloromethane	< 2.00	ug/L	5/9/2019	18:27
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	18:27
Ethylbenzene	< 2.00	ug/L	5/9/2019	18:27
Freon 113	< 2.00	ug/L	5/9/2019	18:27
Isopropylbenzene	< 2.00	ug/L	5/9/2019	18:27
m,p-Xylene	< 2.00	ug/L	5/9/2019	18:27
Methyl acetate	< 2.00	ug/L	5/9/2019	18:27
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	18:27
Methylcyclohexane	< 2.00	ug/L	5/9/2019	18:27
Methylene chloride	< 5.00	ug/L	5/9/2019	18:27
o-Xylene	< 2.00	ug/L	5/9/2019	18:27
Styrene	< 5.00	ug/L	5/9/2019	18:27
Tetrachloroethene	< 2.00	ug/L	5/9/2019	18:27
Toluene	< 2.00	ug/L	5/9/2019	18:27
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:27
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:27
Trichloroethene	< 2.00	ug/L	5/9/2019	18:27
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	18:27
Vinyl chloride	< 2.00	ug/L	5/9/2019	18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**93.5**	71.4 - 133		5/9/2019	18:27
4-Bromofluorobenzene	**75.0**	61.7 - 126		5/9/2019	18:27
Pentafluorobenzene	**98.8**	87.4 - 109		5/9/2019	18:27
Toluene-D8	**89.3**	82.3 - 112		5/9/2019	18:27

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60729.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.71	ug/L		5/4/2019 06:28
1,2,4,5-Tetrachlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,2,4-Trichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,2-Dichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,3-Dichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,4-Dichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
2,2-Oxybis (1-chloropropane)	< 9.71	ug/L		5/4/2019 06:28
2,3,4,6-Tetrachlorophenol	< 9.71	ug/L		5/4/2019 06:28
2,4,5-Trichlorophenol	< 19.4	ug/L		5/4/2019 06:28
2,4,6-Trichlorophenol	< 9.71	ug/L		5/4/2019 06:28
2,4-Dichlorophenol	< 9.71	ug/L		5/4/2019 06:28
2,4-Dimethylphenol	< 19.4	ug/L		5/4/2019 06:28
2,4-Dinitrophenol	< 19.4	ug/L		5/4/2019 06:28
2,4-Dinitrotoluene	< 9.71	ug/L		5/4/2019 06:28
2,6-Dinitrotoluene	< 9.71	ug/L		5/4/2019 06:28
2-Chloronaphthalene	< 9.71	ug/L		5/4/2019 06:28
2-Chlorophenol	< 9.71	ug/L		5/4/2019 06:28
2-Methylnapthalene	< 9.71	ug/L		5/4/2019 06:28
2-Methylphenol	< 9.71	ug/L		5/4/2019 06:28
2-Nitroaniline	< 19.4	ug/L		5/4/2019 06:28
2-Nitrophenol	< 9.71	ug/L		5/4/2019 06:28
3&4-Methylphenol	< 9.71	ug/L		5/4/2019 06:28
3,3'-Dichlorobenzidine	< 9.71	ug/L		5/4/2019 06:28
3-Nitroaniline	< 19.4	ug/L		5/4/2019 06:28
4,6-Dinitro-2-methylphenol	< 19.4	ug/L		5/4/2019 06:28
4-Bromophenyl phenyl ether	< 9.71	ug/L		5/4/2019 06:28
4-Chloro-3-methylphenol	< 9.71	ug/L		5/4/2019 06:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.71	ug/L	5/4/2019	06:28
4-Chlorophenyl phenyl ether	< 9.71	ug/L	5/4/2019	06:28
4-Nitroaniline	< 19.4	ug/L	5/4/2019	06:28
4-Nitrophenol	< 19.4	ug/L	5/4/2019	06:28
Acenaphthene	< 9.71	ug/L	5/4/2019	06:28
Acenaphthylene	< 9.71	ug/L	5/4/2019	06:28
Acetophenone	< 9.71	ug/L	5/4/2019	06:28
Anthracene	< 9.71	ug/L	5/4/2019	06:28
Atrazine	< 9.71	ug/L	5/4/2019	06:28
Benzaldehyde	< 9.71	ug/L	5/4/2019	06:28
Benzo (a) anthracene	< 9.71	ug/L	5/4/2019	06:28
Benzo (a) pyrene	< 9.71	ug/L	5/4/2019	06:28
Benzo (b) fluoranthene	< 9.71	ug/L	5/4/2019	06:28
Benzo (g,h,i) perylene	< 9.71	ug/L	5/4/2019	06:28
Benzo (k) fluoranthene	< 9.71	ug/L	5/4/2019	06:28
Bis (2-chloroethoxy) methane	< 9.71	ug/L	5/4/2019	06:28
Bis (2-chloroethyl) ether	< 9.71	ug/L	5/4/2019	06:28
Bis (2-ethylhexyl) phthalate	< 9.71	ug/L	5/4/2019	06:28
Butylbenzylphthalate	< 9.71	ug/L	5/4/2019	06:28
Caprolactam	< 9.71	ug/L	5/4/2019	06:28
Carbazole	< 9.71	ug/L	5/4/2019	06:28
Chrysene	< 9.71	ug/L	5/4/2019	06:28
Dibenz (a,h) anthracene	< 9.71	ug/L	5/4/2019	06:28
Dibenzofuran	< 9.71	ug/L	5/4/2019	06:28
Diethyl phthalate	< 9.71	ug/L	5/4/2019	06:28
Dimethyl phthalate	< 19.4	ug/L	5/4/2019	06:28
Di-n-butyl phthalate	< 9.71	ug/L	5/4/2019	06:28
Di-n-octylphthalate	< 9.71	ug/L	5/4/2019	06:28
Fluoranthene	< 9.71	ug/L	5/4/2019	06:28
Fluorene	< 9.71	ug/L	5/4/2019	06:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.71	ug/L		5/4/2019	06:28
Hexachlorobutadiene	< 9.71	ug/L		5/4/2019	06:28
Hexachlorocyclopentadiene	< 9.71	ug/L		5/4/2019	06:28
Hexachloroethane	< 9.71	ug/L		5/4/2019	06:28
Indeno (1,2,3-cd) pyrene	< 9.71	ug/L		5/4/2019	06:28
Isophorone	< 9.71	ug/L		5/4/2019	06:28
Naphthalene	**6.34**	ug/L	J	5/4/2019	06:28
Nitrobenzene	< 9.71	ug/L		5/4/2019	06:28
N-Nitroso-di-n-propylamine	< 9.71	ug/L		5/4/2019	06:28
N-Nitrosodiphenylamine	< 9.71	ug/L		5/4/2019	06:28
Pentachlorophenol	< 19.4	ug/L		5/4/2019	06:28
Phenanthrene	< 9.71	ug/L		5/4/2019	06:28
Phenol	< 9.71	ug/L		5/4/2019	06:28
Pyrene	< 9.71	ug/L		5/4/2019	06:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.5**	47.9 - 130		5/4/2019	06:28
2-Fluorobiphenyl	**53.8**	30.8 - 101		5/4/2019	06:28
2-Fluorophenol	**38.4**	10 - 113		5/4/2019	06:28
Nitrobenzene-d5	**64.1**	48.6 - 102		5/4/2019	06:28
Phenol-d5	**26.9**	10 - 111		5/4/2019	06:28
Terphenyl-d14	**85.5**	57.2 - 111		5/4/2019	06:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36732.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 18:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 18:50
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 18:50
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:50
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 18:50
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:50
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:50
1,4-Dioxane	< 20.0	ug/L		5/9/2019 18:50
2-Butanone	< 10.0	ug/L		5/9/2019 18:50
2-Hexanone	< 5.00	ug/L		5/9/2019 18:50
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 18:50
Acetone	< 10.0	ug/L		5/9/2019 18:50
Benzene	**3.85**	ug/L		5/9/2019 18:50
Bromochloromethane	< 5.00	ug/L		5/9/2019 18:50
Bromodichloromethane	< 2.00	ug/L		5/9/2019 18:50
Bromoform	< 5.00	ug/L		5/9/2019 18:50
Bromomethane	< 2.00	ug/L		5/9/2019 18:50
Carbon disulfide	< 2.00	ug/L		5/9/2019 18:50
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 18:50
Chlorobenzene	< 2.00	ug/L		5/9/2019 18:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	18:50
Chloroform	< 2.00	ug/L		5/9/2019	18:50
Chloromethane	< 2.00	ug/L		5/9/2019	18:50
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	18:50
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	18:50
Cyclohexane	< 10.0	ug/L		5/9/2019	18:50
Dibromochloromethane	< 2.00	ug/L		5/9/2019	18:50
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	18:50
Ethylbenzene	**45.3**	ug/L		5/9/2019	18:50
Freon 113	< 2.00	ug/L		5/9/2019	18:50
Isopropylbenzene	**1.73**	ug/L	J	5/9/2019	18:50
m,p-Xylene	**29.5**	ug/L		5/9/2019	18:50
Methyl acetate	< 2.00	ug/L		5/9/2019	18:50
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	18:50
Methylcyclohexane	**1.71**	ug/L	J	5/9/2019	18:50
Methylene chloride	< 5.00	ug/L		5/9/2019	18:50
o-Xylene	**1.38**	ug/L	J	5/9/2019	18:50
Styrene	< 5.00	ug/L		5/9/2019	18:50
Tetrachloroethene	< 2.00	ug/L		5/9/2019	18:50
Toluene	< 2.00	ug/L		5/9/2019	18:50
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	18:50
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	18:50
Trichloroethene	< 2.00	ug/L		5/9/2019	18:50
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	18:50
Vinyl chloride	< 2.00	ug/L		5/9/2019	18:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**91.1**	71.4 - 133		5/9/2019	18:50
4-Bromofluorobenzene	**94.2**	61.7 - 126		5/9/2019	18:50
Pentafluorobenzene	**97.8**	87.4 - 109		5/9/2019	18:50
Toluene-D8	**98.8**	82.3 - 112		5/9/2019	18:50

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60730.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.54	ug/L		5/4/2019 06:58
1,2,4,5-Tetrachlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,2,4-Trichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,2-Dichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,3-Dichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,4-Dichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
2,2-Oxybis (1-chloropropane)	< 9.54	ug/L		5/4/2019 06:58
2,3,4,6-Tetrachlorophenol	< 9.54	ug/L		5/4/2019 06:58
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 06:58
2,4,6-Trichlorophenol	< 9.54	ug/L		5/4/2019 06:58
2,4-Dichlorophenol	< 9.54	ug/L		5/4/2019 06:58
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 06:58
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 06:58
2,4-Dinitrotoluene	< 9.54	ug/L		5/4/2019 06:58
2,6-Dinitrotoluene	< 9.54	ug/L		5/4/2019 06:58
2-Chloronaphthalene	< 9.54	ug/L		5/4/2019 06:58
2-Chlorophenol	< 9.54	ug/L		5/4/2019 06:58
2-Methylnapthalene	< 9.54	ug/L		5/4/2019 06:58
2-Methylphenol	< 9.54	ug/L		5/4/2019 06:58
2-Nitroaniline	< 19.1	ug/L		5/4/2019 06:58
2-Nitrophenol	< 9.54	ug/L		5/4/2019 06:58
3&4-Methylphenol	< 9.54	ug/L		5/4/2019 06:58
3,3'-Dichlorobenzidine	< 9.54	ug/L		5/4/2019 06:58
3-Nitroaniline	< 19.1	ug/L		5/4/2019 06:58
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 06:58
4-Bromophenyl phenyl ether	< 9.54	ug/L		5/4/2019 06:58
4-Chloro-3-methylphenol	< 9.54	ug/L		5/4/2019 06:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.54	ug/L	5/4/2019	06:58
4-Chlorophenyl phenyl ether	< 9.54	ug/L	5/4/2019	06:58
4-Nitroaniline	< 19.1	ug/L	5/4/2019	06:58
4-Nitrophenol	< 19.1	ug/L	5/4/2019	06:58
Acenaphthene	< 9.54	ug/L	5/4/2019	06:58
Acenaphthylene	< 9.54	ug/L	5/4/2019	06:58
Acetophenone	< 9.54	ug/L	5/4/2019	06:58
Anthracene	< 9.54	ug/L	5/4/2019	06:58
Atrazine	< 9.54	ug/L	5/4/2019	06:58
Benzaldehyde	< 9.54	ug/L	5/4/2019	06:58
Benzo (a) anthracene	< 9.54	ug/L	5/4/2019	06:58
Benzo (a) pyrene	< 9.54	ug/L	5/4/2019	06:58
Benzo (b) fluoranthene	< 9.54	ug/L	5/4/2019	06:58
Benzo (g,h,i) perylene	< 9.54	ug/L	5/4/2019	06:58
Benzo (k) fluoranthene	< 9.54	ug/L	5/4/2019	06:58
Bis (2-chloroethoxy) methane	< 9.54	ug/L	5/4/2019	06:58
Bis (2-chloroethyl) ether	< 9.54	ug/L	5/4/2019	06:58
Bis (2-ethylhexyl) phthalate	< 9.54	ug/L	5/4/2019	06:58
Butylbenzylphthalate	< 9.54	ug/L	5/4/2019	06:58
Caprolactam	< 9.54	ug/L	5/4/2019	06:58
Carbazole	< 9.54	ug/L	5/4/2019	06:58
Chrysene	< 9.54	ug/L	5/4/2019	06:58
Dibenz (a,h) anthracene	< 9.54	ug/L	5/4/2019	06:58
Dibenzofuran	< 9.54	ug/L	5/4/2019	06:58
Diethyl phthalate	< 9.54	ug/L	5/4/2019	06:58
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	06:58
Di-n-butyl phthalate	< 9.54	ug/L	5/4/2019	06:58
Di-n-octylphthalate	< 9.54	ug/L	5/4/2019	06:58
Fluoranthene	< 9.54	ug/L	5/4/2019	06:58
Fluorene	< 9.54	ug/L	5/4/2019	06:58

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.54	ug/L		5/4/2019	06:58
Hexachlorobutadiene	< 9.54	ug/L		5/4/2019	06:58
Hexachlorocyclopentadiene	< 9.54	ug/L		5/4/2019	06:58
Hexachloroethane	< 9.54	ug/L		5/4/2019	06:58
Indeno (1,2,3-cd) pyrene	< 9.54	ug/L		5/4/2019	06:58
Isophorone	< 9.54	ug/L		5/4/2019	06:58
Naphthalene	**8.08**	ug/L	J	5/4/2019	06:58
Nitrobenzene	< 9.54	ug/L		5/4/2019	06:58
N-Nitroso-di-n-propylamine	< 9.54	ug/L		5/4/2019	06:58
N-Nitrosodiphenylamine	< 9.54	ug/L		5/4/2019	06:58
Pentachlorophenol	< 19.1	ug/L		5/4/2019	06:58
Phenanthrene	< 9.54	ug/L		5/4/2019	06:58
Phenol	< 9.54	ug/L		5/4/2019	06:58
Pyrene	< 9.54	ug/L		5/4/2019	06:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**73.9**	47.9 - 130		5/4/2019	06:58
2-Fluorobiphenyl	**50.8**	30.8 - 101		5/4/2019	06:58
2-Fluorophenol	**38.6**	10 - 113		5/4/2019	06:58
Nitrobenzene-d5	**62.4**	48.6 - 102		5/4/2019	06:58
Phenol-d5	**25.5**	10 - 111		5/4/2019	06:58
Terphenyl-d14	**68.8**	57.2 - 111		5/4/2019	06:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36733.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 1		
Lab Sample ID:	191889-09	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 16:12
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:12
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:12
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 16:12
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 16:12
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:12
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 16:12
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:12
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:12
1,4-Dioxane	< 20.0	ug/L		5/9/2019 16:12
2-Butanone	< 10.0	ug/L		5/9/2019 16:12
2-Hexanone	< 5.00	ug/L		5/9/2019 16:12
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 16:12
Acetone	< 10.0	ug/L		5/9/2019 16:12
Benzene	**7.27**	ug/L		5/9/2019 16:12
Bromochloromethane	< 5.00	ug/L		5/9/2019 16:12
Bromodichloromethane	< 2.00	ug/L		5/9/2019 16:12
Bromoform	< 5.00	ug/L		5/9/2019 16:12
Bromomethane	< 2.00	ug/L		5/9/2019 16:12
Carbon disulfide	< 2.00	ug/L		5/9/2019 16:12
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 16:12
Chlorobenzene	< 2.00	ug/L		5/9/2019 16:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	16:12
Chloroform	< 2.00	ug/L		5/9/2019	16:12
Chloromethane	< 2.00	ug/L		5/9/2019	16:12
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:12
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:12
Cyclohexane	**31.8**	ug/L		5/9/2019	16:12
Dibromochloromethane	< 2.00	ug/L		5/9/2019	16:12
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	16:12
Ethylbenzene	**73.8**	ug/L		5/9/2019	16:12
Freon 113	< 2.00	ug/L		5/9/2019	16:12
Isopropylbenzene	**4.02**	ug/L		5/9/2019	16:12
m,p-Xylene	**41.1**	ug/L		5/9/2019	16:12
Methyl acetate	< 2.00	ug/L		5/9/2019	16:12
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	16:12
Methylcyclohexane	**8.77**	ug/L		5/9/2019	16:12
Methylene chloride	< 5.00	ug/L		5/9/2019	16:12
o-Xylene	**5.02**	ug/L		5/9/2019	16:12
Styrene	< 5.00	ug/L		5/9/2019	16:12
Tetrachloroethene	< 2.00	ug/L		5/9/2019	16:12
Toluene	**1.40**	ug/L	J	5/9/2019	16:12
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:12
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:12
Trichloroethene	< 2.00	ug/L		5/9/2019	16:12
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	16:12
Vinyl chloride	< 2.00	ug/L		5/9/2019	16:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**90.5**	71.4 - 133		5/9/2019	16:12
4-Bromofluorobenzene	**95.3**	61.7 - 126		5/9/2019	16:12
Pentafluorobenzene	**103**	87.4 - 109		5/9/2019	16:12
Toluene-D8	**103**	82.3 - 112		5/9/2019	16:12

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60723.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 3		
Lab Sample ID:	191889-10	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.57	ug/L		5/4/2019 07:28
1,2,4,5-Tetrachlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,2,4-Trichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,2-Dichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,3-Dichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,4-Dichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
2,2-Oxybis (1-chloropropane)	< 9.57	ug/L		5/4/2019 07:28
2,3,4,6-Tetrachlorophenol	< 9.57	ug/L		5/4/2019 07:28
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 07:28
2,4,6-Trichlorophenol	< 9.57	ug/L		5/4/2019 07:28
2,4-Dichlorophenol	< 9.57	ug/L		5/4/2019 07:28
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 07:28
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 07:28
2,4-Dinitrotoluene	< 9.57	ug/L		5/4/2019 07:28
2,6-Dinitrotoluene	< 9.57	ug/L		5/4/2019 07:28
2-Chloronaphthalene	< 9.57	ug/L		5/4/2019 07:28
2-Chlorophenol	< 9.57	ug/L		5/4/2019 07:28
2-Methylnapthalene	< 9.57	ug/L		5/4/2019 07:28
2-Methylphenol	< 9.57	ug/L		5/4/2019 07:28
2-Nitroaniline	< 19.1	ug/L		5/4/2019 07:28
2-Nitrophenol	< 9.57	ug/L		5/4/2019 07:28
3&4-Methylphenol	< 9.57	ug/L		5/4/2019 07:28
3,3'-Dichlorobenzidine	< 9.57	ug/L		5/4/2019 07:28
3-Nitroaniline	< 19.1	ug/L		5/4/2019 07:28
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 07:28
4-Bromophenyl phenyl ether	< 9.57	ug/L		5/4/2019 07:28
4-Chloro-3-methylphenol	< 9.57	ug/L		5/4/2019 07:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.57	ug/L	5/4/2019	07:28
4-Chlorophenyl phenyl ether	< 9.57	ug/L	5/4/2019	07:28
4-Nitroaniline	< 19.1	ug/L	5/4/2019	07:28
4-Nitrophenol	< 19.1	ug/L	5/4/2019	07:28
Acenaphthene	< 9.57	ug/L	5/4/2019	07:28
Acenaphthylene	< 9.57	ug/L	5/4/2019	07:28
Acetophenone	< 9.57	ug/L	5/4/2019	07:28
Anthracene	< 9.57	ug/L	5/4/2019	07:28
Atrazine	< 9.57	ug/L	5/4/2019	07:28
Benzaldehyde	< 9.57	ug/L	5/4/2019	07:28
Benzo (a) anthracene	< 9.57	ug/L	5/4/2019	07:28
Benzo (a) pyrene	< 9.57	ug/L	5/4/2019	07:28
Benzo (b) fluoranthene	< 9.57	ug/L	5/4/2019	07:28
Benzo (g,h,i) perylene	< 9.57	ug/L	5/4/2019	07:28
Benzo (k) fluoranthene	< 9.57	ug/L	5/4/2019	07:28
Bis (2-chloroethoxy) methane	< 9.57	ug/L	5/4/2019	07:28
Bis (2-chloroethyl) ether	< 9.57	ug/L	5/4/2019	07:28
Bis (2-ethylhexyl) phthalate	< 9.57	ug/L	5/4/2019	07:28
Butylbenzylphthalate	< 9.57	ug/L	5/4/2019	07:28
Caprolactam	< 9.57	ug/L	5/4/2019	07:28
Carbazole	< 9.57	ug/L	5/4/2019	07:28
Chrysene	< 9.57	ug/L	5/4/2019	07:28
Dibenz (a,h) anthracene	< 9.57	ug/L	5/4/2019	07:28
Dibenzofuran	< 9.57	ug/L	5/4/2019	07:28
Diethyl phthalate	< 9.57	ug/L	5/4/2019	07:28
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	07:28
Di-n-butyl phthalate	< 9.57	ug/L	5/4/2019	07:28
Di-n-octylphthalate	< 9.57	ug/L	5/4/2019	07:28
Fluoranthene	< 9.57	ug/L	5/4/2019	07:28
Fluorene	< 9.57	ug/L	5/4/2019	07:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.57	ug/L	5/4/2019	07:28
Hexachlorobutadiene	< 9.57	ug/L	5/4/2019	07:28
Hexachlorocyclopentadiene	< 9.57	ug/L	5/4/2019	07:28
Hexachloroethane	< 9.57	ug/L	5/4/2019	07:28
Indeno (1,2,3-cd) pyrene	< 9.57	ug/L	5/4/2019	07:28
Isophorone	< 9.57	ug/L	5/4/2019	07:28
Naphthalene	< 9.57	ug/L	5/4/2019	07:28
Nitrobenzene	< 9.57	ug/L	5/4/2019	07:28
N-Nitroso-di-n-propylamine	< 9.57	ug/L	5/4/2019	07:28
N-Nitrosodiphenylamine	< 9.57	ug/L	5/4/2019	07:28
Pentachlorophenol	< 19.1	ug/L	5/4/2019	07:28
Phenanthrene	< 9.57	ug/L	5/4/2019	07:28
Phenol	< 9.57	ug/L	5/4/2019	07:28
Pyrene	< 9.57	ug/L	5/4/2019	07:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.7**	47.9 - 130		5/4/2019	07:28
2-Fluorobiphenyl	**67.9**	30.8 - 101		5/4/2019	07:28
2-Fluorophenol	**42.2**	10 - 113		5/4/2019	07:28
Nitrobenzene-d5	**71.3**	48.6 - 102		5/4/2019	07:28
Phenol-d5	**28.8**	10 - 111		5/4/2019	07:28
Terphenyl-d14	**80.9**	57.2 - 111		5/4/2019	07:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36734.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 3		
Lab Sample ID:	191889-10	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 19:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 19:13
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 19:13
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:13
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 19:13
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:13
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:13
1,4-Dioxane	< 20.0	ug/L		5/9/2019 19:13
2-Butanone	< 10.0	ug/L		5/9/2019 19:13
2-Hexanone	< 5.00	ug/L		5/9/2019 19:13
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 19:13
Acetone	< 10.0	ug/L		5/9/2019 19:13
Benzene	**2.45**	ug/L		5/9/2019 19:13
Bromochloromethane	< 5.00	ug/L		5/9/2019 19:13
Bromodichloromethane	< 2.00	ug/L		5/9/2019 19:13
Bromoform	< 5.00	ug/L		5/9/2019 19:13
Bromomethane	< 2.00	ug/L		5/9/2019 19:13
Carbon disulfide	< 2.00	ug/L		5/9/2019 19:13
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 19:13
Chlorobenzene	< 2.00	ug/L		5/9/2019 19:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	19:13
Chloroform	< 2.00	ug/L	5/9/2019	19:13
Chloromethane	< 2.00	ug/L	5/9/2019	19:13
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	19:13
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	19:13
Cyclohexane	< 10.0	ug/L	5/9/2019	19:13
Dibromochloromethane	< 2.00	ug/L	5/9/2019	19:13
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	19:13
Ethylbenzene	**2.01**	ug/L	5/9/2019	19:13
Freon 113	< 2.00	ug/L	5/9/2019	19:13
Isopropylbenzene	**4.18**	ug/L	5/9/2019	19:13
m,p-Xylene	< 2.00	ug/L	5/9/2019	19:13
Methyl acetate	< 2.00	ug/L	5/9/2019	19:13
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	19:13
Methylcyclohexane	< 2.00	ug/L	5/9/2019	19:13
Methylene chloride	< 5.00	ug/L	5/9/2019	19:13
o-Xylene	< 2.00	ug/L	5/9/2019	19:13
Styrene	< 5.00	ug/L	5/9/2019	19:13
Tetrachloroethene	< 2.00	ug/L	5/9/2019	19:13
Toluene	< 2.00	ug/L	5/9/2019	19:13
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	19:13
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	19:13
Trichloroethene	< 2.00	ug/L	5/9/2019	19:13
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	19:13
Vinyl chloride	< 2.00	ug/L	5/9/2019	19:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**88.7**	71.4 - 133		5/9/2019	19:13
4-Bromofluorobenzene	**91.3**	61.7 - 126		5/9/2019	19:13
Pentafluorobenzene	**105**	87.4 - 109		5/9/2019	19:13
Toluene-D8	**105**	82.3 - 112		5/9/2019	19:13

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60731.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.

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.54	ug/L		5/4/2019 07:57
1,2,4,5-Tetrachlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,2,4-Trichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,2-Dichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,3-Dichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,4-Dichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
2,2-Oxybis (1-chloropropane)	< 9.54	ug/L		5/4/2019 07:57
2,3,4,6-Tetrachlorophenol	< 9.54	ug/L		5/4/2019 07:57
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 07:57
2,4,6-Trichlorophenol	< 9.54	ug/L		5/4/2019 07:57
2,4-Dichlorophenol	< 9.54	ug/L		5/4/2019 07:57
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 07:57
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 07:57
2,4-Dinitrotoluene	< 9.54	ug/L		5/4/2019 07:57
2,6-Dinitrotoluene	< 9.54	ug/L		5/4/2019 07:57
2-Chloronaphthalene	< 9.54	ug/L		5/4/2019 07:57
2-Chlorophenol	< 9.54	ug/L		5/4/2019 07:57
2-Methylnapthalene	< 9.54	ug/L		5/4/2019 07:57
2-Methylphenol	< 9.54	ug/L		5/4/2019 07:57
2-Nitroaniline	< 19.1	ug/L		5/4/2019 07:57
2-Nitrophenol	< 9.54	ug/L		5/4/2019 07:57
3&4-Methylphenol	< 9.54	ug/L		5/4/2019 07:57
3,3'-Dichlorobenzidine	< 9.54	ug/L		5/4/2019 07:57
3-Nitroaniline	< 19.1	ug/L		5/4/2019 07:57
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 07:57
4-Bromophenyl phenyl ether	< 9.54	ug/L		5/4/2019 07:57
4-Chloro-3-methylphenol	< 9.54	ug/L		5/4/2019 07:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.54	ug/L	5/4/2019	07:57
4-Chlorophenyl phenyl ether	< 9.54	ug/L	5/4/2019	07:57
4-Nitroaniline	< 19.1	ug/L	5/4/2019	07:57
4-Nitrophenol	< 19.1	ug/L	5/4/2019	07:57
Acenaphthene	< 9.54	ug/L	5/4/2019	07:57
Acenaphthylene	< 9.54	ug/L	5/4/2019	07:57
Acetophenone	< 9.54	ug/L	5/4/2019	07:57
Anthracene	< 9.54	ug/L	5/4/2019	07:57
Atrazine	< 9.54	ug/L	5/4/2019	07:57
Benzaldehyde	< 9.54	ug/L	5/4/2019	07:57
Benzo (a) anthracene	< 9.54	ug/L	5/4/2019	07:57
Benzo (a) pyrene	< 9.54	ug/L	5/4/2019	07:57
Benzo (b) fluoranthene	< 9.54	ug/L	5/4/2019	07:57
Benzo (g,h,i) perylene	< 9.54	ug/L	5/4/2019	07:57
Benzo (k) fluoranthene	< 9.54	ug/L	5/4/2019	07:57
Bis (2-chloroethoxy) methane	< 9.54	ug/L	5/4/2019	07:57
Bis (2-chloroethyl) ether	< 9.54	ug/L	5/4/2019	07:57
Bis (2-ethylhexyl) phthalate	< 9.54	ug/L	5/4/2019	07:57
Butylbenzylphthalate	< 9.54	ug/L	5/4/2019	07:57
Caprolactam	< 9.54	ug/L	5/4/2019	07:57
Carbazole	< 9.54	ug/L	5/4/2019	07:57
Chrysene	< 9.54	ug/L	5/4/2019	07:57
Dibenz (a,h) anthracene	< 9.54	ug/L	5/4/2019	07:57
Dibenzofuran	< 9.54	ug/L	5/4/2019	07:57
Diethyl phthalate	< 9.54	ug/L	5/4/2019	07:57
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	07:57
Di-n-butyl phthalate	< 9.54	ug/L	5/4/2019	07:57
Di-n-octylphthalate	< 9.54	ug/L	5/4/2019	07:57
Fluoranthene	< 9.54	ug/L	5/4/2019	07:57
Fluorene	< 9.54	ug/L	5/4/2019	07:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.54	ug/L	5/4/2019	07:57
Hexachlorobutadiene	< 9.54	ug/L	5/4/2019	07:57
Hexachlorocyclopentadiene	< 9.54	ug/L	5/4/2019	07:57
Hexachloroethane	< 9.54	ug/L	5/4/2019	07:57
Indeno (1,2,3-cd) pyrene	< 9.54	ug/L	5/4/2019	07:57
Isophorone	< 9.54	ug/L	5/4/2019	07:57
Naphthalene	< 9.54	ug/L	5/4/2019	07:57
Nitrobenzene	< 9.54	ug/L	5/4/2019	07:57
N-Nitroso-di-n-propylamine	< 9.54	ug/L	5/4/2019	07:57
N-Nitrosodiphenylamine	< 9.54	ug/L	5/4/2019	07:57
Pentachlorophenol	< 19.1	ug/L	5/4/2019	07:57
Phenanthrene	< 9.54	ug/L	5/4/2019	07:57
Phenol	< 9.54	ug/L	5/4/2019	07:57
Pyrene	< 9.54	ug/L	5/4/2019	07:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**67.3**	47.9 - 130		5/4/2019	07:57
2-Fluorobiphenyl	**57.1**	30.8 - 101		5/4/2019	07:57
2-Fluorophenol	**31.8**	10 - 113		5/4/2019	07:57
Nitrobenzene-d5	**64.3**	48.6 - 102		5/4/2019	07:57
Phenol-d5	**21.8**	10 - 111		5/4/2019	07:57
Terphenyl-d14	**66.5**	57.2 - 111		5/4/2019	07:57

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36735.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 19:35
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:35
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 19:35
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 19:35
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:35
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 19:35
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:35
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:35
1,4-Dioxane	< 20.0	ug/L		5/9/2019 19:35
2-Butanone	< 10.0	ug/L		5/9/2019 19:35
2-Hexanone	< 5.00	ug/L		5/9/2019 19:35
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 19:35
Acetone	< 10.0	ug/L		5/9/2019 19:35
Benzene	**0.677**	ug/L	J	5/9/2019 19:35
Bromochloromethane	< 5.00	ug/L		5/9/2019 19:35
Bromodichloromethane	< 2.00	ug/L		5/9/2019 19:35
Bromoform	< 5.00	ug/L		5/9/2019 19:35
Bromomethane	< 2.00	ug/L		5/9/2019 19:35
Carbon disulfide	< 2.00	ug/L		5/9/2019 19:35
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 19:35
Chlorobenzene	< 2.00	ug/L		5/9/2019 19:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	19:35
Chloroform	< 2.00	ug/L		5/9/2019	19:35
Chloromethane	< 2.00	ug/L		5/9/2019	19:35
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	19:35
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	19:35
Cyclohexane	< 10.0	ug/L		5/9/2019	19:35
Dibromochloromethane	< 2.00	ug/L		5/9/2019	19:35
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	19:35
Ethylbenzene	**5.05**	ug/L		5/9/2019	19:35
Freon 113	< 2.00	ug/L		5/9/2019	19:35
Isopropylbenzene	**1.45**	ug/L	J	5/9/2019	19:35
m,p-Xylene	**1.02**	ug/L	J	5/9/2019	19:35
Methyl acetate	< 2.00	ug/L		5/9/2019	19:35
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	19:35
Methylcyclohexane	< 2.00	ug/L		5/9/2019	19:35
Methylene chloride	< 5.00	ug/L		5/9/2019	19:35
o-Xylene	< 2.00	ug/L		5/9/2019	19:35
Styrene	< 5.00	ug/L		5/9/2019	19:35
Tetrachloroethene	< 2.00	ug/L		5/9/2019	19:35
Toluene	< 2.00	ug/L		5/9/2019	19:35
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	19:35
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	19:35
Trichloroethene	< 2.00	ug/L		5/9/2019	19:35
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	19:35
Vinyl chloride	< 2.00	ug/L		5/9/2019	19:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**86.9**	71.4 - 133		5/9/2019	19:35
4-Bromofluorobenzene	**100**	61.7 - 126		5/9/2019	19:35
Pentafluorobenzene	**109**	87.4 - 109		5/9/2019	19:35
Toluene-D8	**116**	82.3 - 112	*	5/9/2019	19:35

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60732.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Trip Blank T903
Lab Sample ID: 191889-12 **Date Sampled:** 4/18/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 15:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 15:27
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 15:27
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:27
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 15:27
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:27
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:27
1,4-Dioxane	< 20.0	ug/L		5/9/2019 15:27
2-Butanone	< 10.0	ug/L		5/9/2019 15:27
2-Hexanone	< 5.00	ug/L		5/9/2019 15:27
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 15:27
Acetone	< 10.0	ug/L		5/9/2019 15:27
Benzene	< 1.00	ug/L		5/9/2019 15:27
Bromochloromethane	< 5.00	ug/L		5/9/2019 15:27
Bromodichloromethane	< 2.00	ug/L		5/9/2019 15:27
Bromoform	< 5.00	ug/L		5/9/2019 15:27
Bromomethane	< 2.00	ug/L		5/9/2019 15:27
Carbon disulfide	< 2.00	ug/L		5/9/2019 15:27
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 15:27
Chlorobenzene	< 2.00	ug/L		5/9/2019 15:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Trip Blank T903
Lab Sample ID: 191889-12 **Date Sampled:** 4/18/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	15:27
Chloroform	< 2.00	ug/L	5/9/2019	15:27
Chloromethane	< 2.00	ug/L	5/9/2019	15:27
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	15:27
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	15:27
Cyclohexane	< 10.0	ug/L	5/9/2019	15:27
Dibromochloromethane	< 2.00	ug/L	5/9/2019	15:27
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	15:27
Ethylbenzene	< 2.00	ug/L	5/9/2019	15:27
Freon 113	< 2.00	ug/L	5/9/2019	15:27
Isopropylbenzene	< 2.00	ug/L	5/9/2019	15:27
m,p-Xylene	< 2.00	ug/L	5/9/2019	15:27
Methyl acetate	< 2.00	ug/L	5/9/2019	15:27
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	15:27
Methylcyclohexane	< 2.00	ug/L	5/9/2019	15:27
Methylene chloride	< 5.00	ug/L	5/9/2019	15:27
o-Xylene	< 2.00	ug/L	5/9/2019	15:27
Styrene	< 5.00	ug/L	5/9/2019	15:27
Tetrachloroethene	< 2.00	ug/L	5/9/2019	15:27
Toluene	< 2.00	ug/L	5/9/2019	15:27
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	15:27
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	15:27
Trichloroethene	< 2.00	ug/L	5/9/2019	15:27
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	15:27
Vinyl chloride	< 2.00	ug/L	5/9/2019	15:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Trip Blank T903

Lab Sample ID: 191889-12 **Date Sampled:** 4/18/2019

Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	71.4 - 133		5/9/2019	15:27
4-Bromofluorobenzene	**67.1**	61.7 - 126		5/9/2019	15:27
Pentafluorobenzene	**94.4**	87.4 - 109		5/9/2019	15:27
Toluene-D8	**83.4**	82.3 - 112		5/9/2019	15:27

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x60721.D

Report Prepared Friday, May 10, 2019

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, term 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 re-perform 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.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	CITY OF ROCHESTER	COMPANY:	SAME	LAB PROJECT #: 191889	CLIENT PROJECT #:
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:			
CITY: ROCHESTER STATE: NY ZIP: 14614		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: 585-428-7892 FAX: 585-428-6010		PHONE: FAX:		STD	OTHER
PROJECT NAME/SITE NAME: 1200 East Main St	ATTN: JANE FORBES	ATTN:	forbesj@cityofrochester.gov	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
	COMMENTS: ASP CAT B PROTOCAL				

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/2/2019	0900		X	MW 2	H2O	3	X	X		01
2		1030/1050		X	MW 8	H2O	3	X	X		02
3		1120		X	MW 11	H2O	3	X	X		
4		↓		X	MS/MW11	H2O	3	X	X		03
5		↓		X	MSD/MW11	H2O	3	X	X		
6		1330		X	MW 7R	H2O	3	X	X		04
7		1330		X	Blind Duplicate (DUP)	H2O	3	X	X		05
8		1445		X	MW 16	H2O	3	X	X		06
9		1445		X	MW 9R	H2O	3	X	X		07
10	↓	1535		X	MW 15R	H2O	3	X	X		08

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☐	PRESERVATIONS: ☐	HOLDING TIME: ☐	TEMPERATURE: ☐	11°C iced started in field 5/2/19 16:43

Sampled By: A.Z. Martino	Date/Time: 5/2/2019	Relinquished By: A.Z. Martino	Date/Time: 5/2/2019 @ 1619	Total Cost:
Relinquished By: A.Z. Martino	Date/Time: 5/2/2019 @ 1619	Received By: Jane Forbes	Date/Time: 5/2/19 1619	
Received By: Jane Forbes	Date/Time: 5/2/2019 1619	Received @ Lab By: Molly Reid	Date/Time: 5/2/19 1701	P.I.F.

1445 client delivered MR 5/2/19

2 of 3

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	CITY OF ROCHESTER	COMPANY:	SAME	LAB PROJECT #: 191889	CLIENT PROJECT #:
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:			
CITY: ROCHESTER STATE: NY ZIP: 14614		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: 585-428-7892 FAX: 585-428-6010		PHONE: FAX:		STD	OTHER
PROJECT NAME/SITE NAME: 1200 East Main St	ATTN: JANE FORBES	ATTN:	forbesj@cityofrochester.gov	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
	COMMENTS: ASP CAT B PROTOCAL				

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/2/2019	15[25]		X	MW-1	H2O	3	X	X		09
2	↓	16[08]		X	MW-3	H2O	3	X	X		10
3		16[16]		X	MW-4	H2O	3	X	X		11
4	4/1/19			X	trip blank TQ03 per label mr 5/2/19	H2O	3	X	X		12
5				X		H2O	3	X	X		
6				X		H2O	3	X	X		
7				X		H2O	3	X	X		
8				X		H2O	3	X	X		
9				X		H2O	3	X	X		
10				X		H2O	3	X	X		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 1445

Sampled By: A.Z. Martins	Date/Time: 5/2/2019	Relinquished By: ~~A.Z. Martins~~	Date/Time: 5/2/2019 @ 16[19]
Relinquished By: A.Z. Martins	Date/Time: 5/2/2019 @ 16[19]	Received By: Jane Forbes	Date/Time: 5/2/19 1619
Received By:	Date/Time: 5/2/2019 1619	Received @ Lab By: Molly Vail 5/2/19 1701	Date/Time:

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Molly Vail

Lab Project ID: 191889 **Date:** 5/2/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		SVOA
Comments			
Preservation	VOA		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X	X 12	
Comments		OK to run Trip Blank past HT per procedure	
Temperature	X		
Comments	11°C iced started in field		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		8/9/2019 23:09
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,2,4-Trichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,2-Dichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,3-Dichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,4-Dichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		8/9/2019 23:09
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		8/9/2019 23:09
2,4,5-Trichlorophenol	< 20.6	ug/L		8/9/2019 23:09
2,4,6-Trichlorophenol	< 10.3	ug/L		8/9/2019 23:09
2,4-Dichlorophenol	< 10.3	ug/L		8/9/2019 23:09
2,4-Dimethylphenol	< 20.6	ug/L		8/9/2019 23:09
2,4-Dinitrophenol	< 20.6	ug/L		8/9/2019 23:09
2,4-Dinitrotoluene	< 10.3	ug/L		8/9/2019 23:09
2,6-Dinitrotoluene	< 10.3	ug/L		8/9/2019 23:09
2-Chloronaphthalene	< 10.3	ug/L		8/9/2019 23:09
2-Chlorophenol	< 10.3	ug/L		8/9/2019 23:09
2-Methylnapthalene	< 10.3	ug/L		8/9/2019 23:09
2-Methylphenol	< 10.3	ug/L		8/9/2019 23:09
2-Nitroaniline	< 20.6	ug/L		8/9/2019 23:09
2-Nitrophenol	< 10.3	ug/L		8/9/2019 23:09
3&4-Methylphenol	< 10.3	ug/L		8/9/2019 23:09
3,3'-Dichlorobenzidine	< 10.3	ug/L		8/9/2019 23:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.6	ug/L	8/9/2019	23:09
4,6-Dinitro-2-methylphenol	< 20.6	ug/L	8/9/2019	23:09
4-Bromophenyl phenyl ether	< 10.3	ug/L	8/9/2019	23:09
4-Chloro-3-methylphenol	< 10.3	ug/L	8/9/2019	23:09
4-Chloroaniline	< 10.3	ug/L	8/9/2019	23:09
4-Chlorophenyl phenyl ether	< 10.3	ug/L	8/9/2019	23:09
4-Nitroaniline	< 20.6	ug/L	8/9/2019	23:09
4-Nitrophenol	< 20.6	ug/L	8/9/2019	23:09
Acenaphthene	< 10.3	ug/L	8/9/2019	23:09
Acenaphthylene	< 10.3	ug/L	8/9/2019	23:09
Acetophenone	< 10.3	ug/L	8/9/2019	23:09
Anthracene	< 10.3	ug/L	8/9/2019	23:09
Atrazine	< 10.3	ug/L	8/9/2019	23:09
Benzaldehyde	< 10.3	ug/L	8/9/2019	23:09
Benzo (a) anthracene	< 10.3	ug/L	8/9/2019	23:09
Benzo (a) pyrene	< 10.3	ug/L	8/9/2019	23:09
Benzo (b) fluoranthene	< 10.3	ug/L	8/9/2019	23:09
Benzo (g,h,i) perylene	< 10.3	ug/L	8/9/2019	23:09
Benzo (k) fluoranthene	< 10.3	ug/L	8/9/2019	23:09
Bis (2-chloroethoxy) methane	< 10.3	ug/L	8/9/2019	23:09
Bis (2-chloroethyl) ether	< 10.3	ug/L	8/9/2019	23:09
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	8/9/2019	23:09
Butylbenzylphthalate	< 10.3	ug/L	8/9/2019	23:09
Caprolactam	< 10.3	ug/L	8/9/2019	23:09
Carbazole	< 10.3	ug/L	8/9/2019	23:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.3	ug/L	8/9/2019	23:09
Dibenz (a,h) anthracene	< 10.3	ug/L	8/9/2019	23:09
Dibenzofuran	< 10.3	ug/L	8/9/2019	23:09
Diethyl phthalate	< 10.3	ug/L	8/9/2019	23:09
Dimethyl phthalate	< 20.6	ug/L	8/9/2019	23:09
Di-n-butyl phthalate	< 10.3	ug/L	8/9/2019	23:09
Di-n-octylphthalate	< 10.3	ug/L	8/9/2019	23:09
Fluoranthene	< 10.3	ug/L	8/9/2019	23:09
Fluorene	< 10.3	ug/L	8/9/2019	23:09
Hexachlorobenzene	< 10.3	ug/L	8/9/2019	23:09
Hexachlorobutadiene	< 10.3	ug/L	8/9/2019	23:09
Hexachlorocyclopentadiene	< 10.3	ug/L	8/9/2019	23:09
Hexachloroethane	< 10.3	ug/L	8/9/2019	23:09
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	8/9/2019	23:09
Isophorone	< 10.3	ug/L	8/9/2019	23:09
Naphthalene	< 10.3	ug/L	8/9/2019	23:09
Nitrobenzene	< 10.3	ug/L	8/9/2019	23:09
N-Nitroso-di-n-propylamine	< 10.3	ug/L	8/9/2019	23:09
N-Nitrosodiphenylamine	< 10.3	ug/L	8/9/2019	23:09
Pentachlorophenol	< 20.6	ug/L	8/9/2019	23:09
Phenanthrene	< 10.3	ug/L	8/9/2019	23:09
Phenol	< 10.3	ug/L	8/9/2019	23:09
Pyrene	< 10.3	ug/L	8/9/2019	23:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.3**	54.2 - 126		8/9/2019	23:09
2-Fluorobiphenyl	**60.2**	37.6 - 102		8/9/2019	23:09
2-Fluorophenol	**47.7**	15.1 - 106		8/9/2019	23:09
Nitrobenzene-d5	**75.6**	53.3 - 103		8/9/2019	23:09
Phenol-d5	**31.3**	10 - 108		8/9/2019	23:09
Terphenyl-d14	**76.5**	61.8 - 114		8/9/2019	23:09

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39830.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 17:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 17:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 17:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 17:44
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 17:44
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 17:44
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 17:44
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 17:44
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 17:44
1,4-Dioxane	< 20.0	ug/L		8/14/2019 17:44
2-Butanone	< 10.0	ug/L		8/14/2019 17:44
2-Hexanone	< 5.00	ug/L		8/14/2019 17:44
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 17:44
Acetone	< 10.0	ug/L		8/14/2019 17:44
Benzene	< 1.00	ug/L		8/14/2019 17:44
Bromochloromethane	< 5.00	ug/L		8/14/2019 17:44
Bromodichloromethane	< 2.00	ug/L		8/14/2019 17:44
Bromoform	< 5.00	ug/L		8/14/2019 17:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	17:44
Carbon disulfide	< 2.00	ug/L	8/14/2019	17:44
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	17:44
Chlorobenzene	< 2.00	ug/L	8/14/2019	17:44
Chloroethane	< 2.00	ug/L	8/14/2019	17:44
Chloroform	< 2.00	ug/L	8/14/2019	17:44
Chloromethane	< 2.00	ug/L	8/14/2019	17:44
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	17:44
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	17:44
Cyclohexane	< 10.0	ug/L	8/14/2019	17:44
Dibromochloromethane	< 2.00	ug/L	8/14/2019	17:44
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	17:44
Ethylbenzene	< 2.00	ug/L	8/14/2019	17:44
Freon 113	< 2.00	ug/L	8/14/2019	17:44
Isopropylbenzene	< 2.00	ug/L	8/14/2019	17:44
m,p-Xylene	< 2.00	ug/L	8/14/2019	17:44
Methyl acetate	< 2.00	ug/L	8/14/2019	17:44
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	17:44
Methylcyclohexane	< 2.00	ug/L	8/14/2019	17:44
Methylene chloride	< 5.00	ug/L	8/14/2019	17:44
o-Xylene	< 2.00	ug/L	8/14/2019	17:44
Styrene	< 5.00	ug/L	8/14/2019	17:44
Tetrachloroethene	< 2.00	ug/L	8/14/2019	17:44
Toluene	< 2.00	ug/L	8/14/2019	17:44
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	17:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	17:44
Trichloroethene	< 2.00	ug/L	8/14/2019	17:44
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	17:44
Vinyl chloride	< 2.00	ug/L	8/14/2019	17:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	73.4 - 131		8/14/2019	17:44
4-Bromofluorobenzene	**92.7**	57.2 - 129		8/14/2019	17:44
Pentafluorobenzene	**92.2**	87 - 112		8/14/2019	17:44
Toluene-D8	**99.8**	78.3 - 115		8/14/2019	17:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63586.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		8/9/2019 23:37
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,2,4-Trichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,2-Dichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,3-Dichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,4-Dichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		8/9/2019 23:37
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		8/9/2019 23:37
2,4,5-Trichlorophenol	< 20.5	ug/L		8/9/2019 23:37
2,4,6-Trichlorophenol	< 10.2	ug/L		8/9/2019 23:37
2,4-Dichlorophenol	< 10.2	ug/L		8/9/2019 23:37
2,4-Dimethylphenol	< 20.5	ug/L		8/9/2019 23:37
2,4-Dinitrophenol	< 20.5	ug/L		8/9/2019 23:37
2,4-Dinitrotoluene	< 10.2	ug/L		8/9/2019 23:37
2,6-Dinitrotoluene	< 10.2	ug/L		8/9/2019 23:37
2-Chloronaphthalene	< 10.2	ug/L		8/9/2019 23:37
2-Chlorophenol	< 10.2	ug/L		8/9/2019 23:37
2-Methylnapthalene	< 10.2	ug/L		8/9/2019 23:37
2-Methylphenol	< 10.2	ug/L		8/9/2019 23:37
2-Nitroaniline	< 20.5	ug/L		8/9/2019 23:37
2-Nitrophenol	< 10.2	ug/L		8/9/2019 23:37
3&4-Methylphenol	< 10.2	ug/L		8/9/2019 23:37
3,3'-Dichlorobenzidine	< 10.2	ug/L		8/9/2019 23:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.5	ug/L	8/9/2019	23:37
4,6-Dinitro-2-methylphenol	< 20.5	ug/L	8/9/2019	23:37
4-Bromophenyl phenyl ether	< 10.2	ug/L	8/9/2019	23:37
4-Chloro-3-methylphenol	< 10.2	ug/L	8/9/2019	23:37
4-Chloroaniline	< 10.2	ug/L	8/9/2019	23:37
4-Chlorophenyl phenyl ether	< 10.2	ug/L	8/9/2019	23:37
4-Nitroaniline	< 20.5	ug/L	8/9/2019	23:37
4-Nitrophenol	< 20.5	ug/L	8/9/2019	23:37
Acenaphthene	< 10.2	ug/L	8/9/2019	23:37
Acenaphthylene	< 10.2	ug/L	8/9/2019	23:37
Acetophenone	< 10.2	ug/L	8/9/2019	23:37
Anthracene	< 10.2	ug/L	8/9/2019	23:37
Atrazine	< 10.2	ug/L	8/9/2019	23:37
Benzaldehyde	< 10.2	ug/L	8/9/2019	23:37
Benzo (a) anthracene	< 10.2	ug/L	8/9/2019	23:37
Benzo (a) pyrene	< 10.2	ug/L	8/9/2019	23:37
Benzo (b) fluoranthene	< 10.2	ug/L	8/9/2019	23:37
Benzo (g,h,i) perylene	< 10.2	ug/L	8/9/2019	23:37
Benzo (k) fluoranthene	< 10.2	ug/L	8/9/2019	23:37
Bis (2-chloroethoxy) methane	< 10.2	ug/L	8/9/2019	23:37
Bis (2-chloroethyl) ether	< 10.2	ug/L	8/9/2019	23:37
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	8/9/2019	23:37
Butylbenzylphthalate	< 10.2	ug/L	8/9/2019	23:37
Caprolactam	< 10.2	ug/L	8/9/2019	23:37
Carbazole	< 10.2	ug/L	8/9/2019	23:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.2	ug/L	8/9/2019	23:37
Dibenz (a,h) anthracene	< 10.2	ug/L	8/9/2019	23:37
Dibenzofuran	< 10.2	ug/L	8/9/2019	23:37
Diethyl phthalate	< 10.2	ug/L	8/9/2019	23:37
Dimethyl phthalate	< 20.5	ug/L	8/9/2019	23:37
Di-n-butyl phthalate	< 10.2	ug/L	8/9/2019	23:37
Di-n-octylphthalate	< 10.2	ug/L	8/9/2019	23:37
Fluoranthene	< 10.2	ug/L	8/9/2019	23:37
Fluorene	< 10.2	ug/L	8/9/2019	23:37
Hexachlorobenzene	< 10.2	ug/L	8/9/2019	23:37
Hexachlorobutadiene	< 10.2	ug/L	8/9/2019	23:37
Hexachlorocyclopentadiene	< 10.2	ug/L	8/9/2019	23:37
Hexachloroethane	< 10.2	ug/L	8/9/2019	23:37
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	8/9/2019	23:37
Isophorone	< 10.2	ug/L	8/9/2019	23:37
Naphthalene	< 10.2	ug/L	8/9/2019	23:37
Nitrobenzene	< 10.2	ug/L	8/9/2019	23:37
N-Nitroso-di-n-propylamine	< 10.2	ug/L	8/9/2019	23:37
N-Nitrosodiphenylamine	< 10.2	ug/L	8/9/2019	23:37
Pentachlorophenol	< 20.5	ug/L	8/9/2019	23:37
Phenanthrene	< 10.2	ug/L	8/9/2019	23:37
Phenol	< 10.2	ug/L	8/9/2019	23:37
Pyrene	< 10.2	ug/L	8/9/2019	23:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.5**	54.2 - 126		8/9/2019	23:37
2-Fluorobiphenyl	**65.0**	37.6 - 102		8/9/2019	23:37
2-Fluorophenol	**52.0**	15.1 - 106		8/9/2019	23:37
Nitrobenzene-d5	**80.9**	53.3 - 103		8/9/2019	23:37
Phenol-d5	**34.1**	10 - 108		8/9/2019	23:37
Terphenyl-d14	**79.7**	61.8 - 114		8/9/2019	23:37

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39831.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 18:06
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:06
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:06
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 18:06
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 18:06
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:06
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 18:06
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:06
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:06
1,4-Dioxane	< 20.0	ug/L		8/14/2019 18:06
2-Butanone	< 10.0	ug/L		8/14/2019 18:06
2-Hexanone	< 5.00	ug/L		8/14/2019 18:06
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 18:06
Acetone	< 10.0	ug/L		8/14/2019 18:06
Benzene	**1.73**	ug/L		8/14/2019 18:06
Bromochloromethane	< 5.00	ug/L		8/14/2019 18:06
Bromodichloromethane	< 2.00	ug/L		8/14/2019 18:06
Bromoform	< 5.00	ug/L		8/14/2019 18:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L		8/14/2019	18:06
Carbon disulfide	< 2.00	ug/L		8/14/2019	18:06
Carbon Tetrachloride	< 2.00	ug/L		8/14/2019	18:06
Chlorobenzene	< 2.00	ug/L		8/14/2019	18:06
Chloroethane	< 2.00	ug/L		8/14/2019	18:06
Chloroform	< 2.00	ug/L		8/14/2019	18:06
Chloromethane	< 2.00	ug/L		8/14/2019	18:06
cis-1,2-Dichloroethene	< 2.00	ug/L		8/14/2019	18:06
cis-1,3-Dichloropropene	< 2.00	ug/L		8/14/2019	18:06
Cyclohexane	< 10.0	ug/L		8/14/2019	18:06
Dibromochloromethane	< 2.00	ug/L		8/14/2019	18:06
Dichlorodifluoromethane	< 2.00	ug/L		8/14/2019	18:06
Ethylbenzene	**19.0**	ug/L		8/14/2019	18:06
Freon 113	< 2.00	ug/L		8/14/2019	18:06
Isopropylbenzene	**1.25**	ug/L	J	8/14/2019	18:06
m,p-Xylene	< 2.00	ug/L		8/14/2019	18:06
Methyl acetate	< 2.00	ug/L		8/14/2019	18:06
Methyl tert-butyl Ether	< 2.00	ug/L		8/14/2019	18:06
Methylcyclohexane	< 2.00	ug/L		8/14/2019	18:06
Methylene chloride	< 5.00	ug/L		8/14/2019	18:06
o-Xylene	< 2.00	ug/L		8/14/2019	18:06
Styrene	< 5.00	ug/L		8/14/2019	18:06
Tetrachloroethene	< 2.00	ug/L		8/14/2019	18:06
Toluene	< 2.00	ug/L		8/14/2019	18:06
trans-1,2-Dichloroethene	< 2.00	ug/L		8/14/2019	18:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	18:06
Trichloroethene	< 2.00	ug/L	8/14/2019	18:06
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	18:06
Vinyl chloride	< 2.00	ug/L	8/14/2019	18:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	73.4 - 131		8/14/2019	18:06
4-Bromofluorobenzene	**102**	57.2 - 129		8/14/2019	18:06
Pentafluorobenzene	**88.6**	87 - 112		8/14/2019	18:06
Toluene-D8	**99.2**	78.3 - 115		8/14/2019	18:06

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63587.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		8/10/2019 00:06
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,2,4-Trichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,2-Dichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,3-Dichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,4-Dichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		8/10/2019 00:06
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		8/10/2019 00:06
2,4,5-Trichlorophenol	< 20.2	ug/L		8/10/2019 00:06
2,4,6-Trichlorophenol	< 10.1	ug/L		8/10/2019 00:06
2,4-Dichlorophenol	< 10.1	ug/L		8/10/2019 00:06
2,4-Dimethylphenol	< 20.2	ug/L		8/10/2019 00:06
2,4-Dinitrophenol	< 20.2	ug/L		8/10/2019 00:06
2,4-Dinitrotoluene	< 10.1	ug/L		8/10/2019 00:06
2,6-Dinitrotoluene	< 10.1	ug/L		8/10/2019 00:06
2-Chloronaphthalene	< 10.1	ug/L		8/10/2019 00:06
2-Chlorophenol	< 10.1	ug/L		8/10/2019 00:06
2-Methylnapthalene	< 10.1	ug/L		8/10/2019 00:06
2-Methylphenol	< 10.1	ug/L		8/10/2019 00:06
2-Nitroaniline	< 20.2	ug/L		8/10/2019 00:06
2-Nitrophenol	< 10.1	ug/L		8/10/2019 00:06
3&4-Methylphenol	< 10.1	ug/L		8/10/2019 00:06
3,3'-Dichlorobenzidine	< 10.1	ug/L		8/10/2019 00:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.2	ug/L	8/10/2019	00:06
4,6-Dinitro-2-methylphenol	< 20.2	ug/L	8/10/2019	00:06
4-Bromophenyl phenyl ether	< 10.1	ug/L	8/10/2019	00:06
4-Chloro-3-methylphenol	< 10.1	ug/L	8/10/2019	00:06
4-Chloroaniline	< 10.1	ug/L	8/10/2019	00:06
4-Chlorophenyl phenyl ether	< 10.1	ug/L	8/10/2019	00:06
4-Nitroaniline	< 20.2	ug/L	8/10/2019	00:06
4-Nitrophenol	< 20.2	ug/L	8/10/2019	00:06
Acenaphthene	< 10.1	ug/L	8/10/2019	00:06
Acenaphthylene	< 10.1	ug/L	8/10/2019	00:06
Acetophenone	< 10.1	ug/L	8/10/2019	00:06
Anthracene	< 10.1	ug/L	8/10/2019	00:06
Atrazine	< 10.1	ug/L	8/10/2019	00:06
Benzaldehyde	< 10.1	ug/L	8/10/2019	00:06
Benzo (a) anthracene	< 10.1	ug/L	8/10/2019	00:06
Benzo (a) pyrene	< 10.1	ug/L	8/10/2019	00:06
Benzo (b) fluoranthene	< 10.1	ug/L	8/10/2019	00:06
Benzo (g,h,i) perylene	< 10.1	ug/L	8/10/2019	00:06
Benzo (k) fluoranthene	< 10.1	ug/L	8/10/2019	00:06
Bis (2-chloroethoxy) methane	< 10.1	ug/L	8/10/2019	00:06
Bis (2-chloroethyl) ether	< 10.1	ug/L	8/10/2019	00:06
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	8/10/2019	00:06
Butylbenzylphthalate	< 10.1	ug/L	8/10/2019	00:06
Caprolactam	< 10.1	ug/L	8/10/2019	00:06
Carbazole	< 10.1	ug/L	8/10/2019	00:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.1	ug/L	8/10/2019	00:06
Dibenz (a,h) anthracene	< 10.1	ug/L	8/10/2019	00:06
Dibenzofuran	< 10.1	ug/L	8/10/2019	00:06
Diethyl phthalate	< 10.1	ug/L	8/10/2019	00:06
Dimethyl phthalate	< 20.2	ug/L	8/10/2019	00:06
Di-n-butyl phthalate	< 10.1	ug/L	8/10/2019	00:06
Di-n-octylphthalate	< 10.1	ug/L	8/10/2019	00:06
Fluoranthene	< 10.1	ug/L	8/10/2019	00:06
Fluorene	< 10.1	ug/L	8/10/2019	00:06
Hexachlorobenzene	< 10.1	ug/L	8/10/2019	00:06
Hexachlorobutadiene	< 10.1	ug/L	8/10/2019	00:06
Hexachlorocyclopentadiene	< 10.1	ug/L	8/10/2019	00:06
Hexachloroethane	< 10.1	ug/L	8/10/2019	00:06
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	8/10/2019	00:06
Isophorone	< 10.1	ug/L	8/10/2019	00:06
Naphthalene	< 10.1	ug/L	8/10/2019	00:06
Nitrobenzene	< 10.1	ug/L	8/10/2019	00:06
N-Nitroso-di-n-propylamine	< 10.1	ug/L	8/10/2019	00:06
N-Nitrosodiphenylamine	< 10.1	ug/L	8/10/2019	00:06
Pentachlorophenol	< 20.2	ug/L	8/10/2019	00:06
Phenanthrene	< 10.1	ug/L	8/10/2019	00:06
Phenol	< 10.1	ug/L	8/10/2019	00:06
Pyrene	< 10.1	ug/L	8/10/2019	00:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.5**	54.2 - 126		8/10/2019	00:06
2-Fluorobiphenyl	**55.1**	37.6 - 102		8/10/2019	00:06
2-Fluorophenol	**47.5**	15.1 - 106		8/10/2019	00:06
Nitrobenzene-d5	**75.4**	53.3 - 103		8/10/2019	00:06
Phenol-d5	**31.6**	10 - 108		8/10/2019	00:06
Terphenyl-d14	**76.7**	61.8 - 114		8/10/2019	00:06

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39832.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1,2-Trichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1-Dichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1-Dichloroethene	< 2.00	ug/L		8/15/2019 18:02
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/15/2019 18:02
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/15/2019 18:02
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/15/2019 18:02
1,2-Dibromoethane	< 2.00	ug/L		8/15/2019 18:02
1,2-Dichlorobenzene	< 2.00	ug/L		8/15/2019 18:02
1,2-Dichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,2-Dichloropropane	< 2.00	ug/L		8/15/2019 18:02
1,3-Dichlorobenzene	< 2.00	ug/L		8/15/2019 18:02
1,4-Dichlorobenzene	< 2.00	ug/L		8/15/2019 18:02
1,4-Dioxane	< 20.0	ug/L		8/15/2019 18:02
2-Butanone	< 10.0	ug/L		8/15/2019 18:02
2-Hexanone	< 5.00	ug/L		8/15/2019 18:02
4-Methyl-2-pentanone	< 5.00	ug/L		8/15/2019 18:02
Acetone	< 10.0	ug/L		8/15/2019 18:02
Benzene	**1.41**	ug/L		8/15/2019 18:02
Bromochloromethane	< 5.00	ug/L		8/15/2019 18:02
Bromodichloromethane	< 2.00	ug/L		8/15/2019 18:02
Bromoform	< 5.00	ug/L		8/15/2019 18:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L		8/15/2019	18:02
Carbon disulfide	< 2.00	ug/L		8/15/2019	18:02
Carbon Tetrachloride	< 2.00	ug/L		8/15/2019	18:02
Chlorobenzene	< 2.00	ug/L		8/15/2019	18:02
Chloroethane	< 2.00	ug/L		8/15/2019	18:02
Chloroform	< 2.00	ug/L		8/15/2019	18:02
Chloromethane	< 2.00	ug/L	M	8/15/2019	18:02
cis-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	18:02
cis-1,3-Dichloropropene	< 2.00	ug/L		8/15/2019	18:02
Cyclohexane	< 10.0	ug/L		8/15/2019	18:02
Dibromochloromethane	< 2.00	ug/L		8/15/2019	18:02
Dichlorodifluoromethane	< 2.00	ug/L		8/15/2019	18:02
Ethylbenzene	**13.0**	ug/L		8/15/2019	18:02
Freon 113	< 2.00	ug/L		8/15/2019	18:02
Isopropylbenzene	< 2.00	ug/L		8/15/2019	18:02
m,p-Xylene	**6.44**	ug/L		8/15/2019	18:02
Methyl acetate	< 2.00	ug/L		8/15/2019	18:02
Methyl tert-butyl Ether	< 2.00	ug/L		8/15/2019	18:02
Methylcyclohexane	< 2.00	ug/L		8/15/2019	18:02
Methylene chloride	< 5.00	ug/L		8/15/2019	18:02
o-Xylene	< 2.00	ug/L		8/15/2019	18:02
Styrene	< 5.00	ug/L		8/15/2019	18:02
Tetrachloroethene	< 2.00	ug/L		8/15/2019	18:02
Toluene	< 2.00	ug/L		8/15/2019	18:02
trans-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	18:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L			8/15/2019	18:02
Trichloroethene	< 2.00	ug/L			8/15/2019	18:02
Trichlorofluoromethane	< 2.00	ug/L			8/15/2019	18:02
Vinyl chloride	< 2.00	ug/L		M	8/15/2019	18:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	73.4 - 131		8/15/2019	18:02
4-Bromofluorobenzene	**102**	57.2 - 129		8/15/2019	18:02
Pentafluorobenzene	**92.7**	87 - 112		8/15/2019	18:02
Toluene-D8	**95.2**	78.3 - 115		8/15/2019	18:02

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63639.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.4	ug/L		8/10/2019 01:32
1,2,4,5-Tetrachlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,2,4-Trichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,2-Dichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,3-Dichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,4-Dichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
2,2-Oxybis (1-chloropropane)	< 10.4	ug/L		8/10/2019 01:32
2,3,4,6-Tetrachlorophenol	< 10.4	ug/L		8/10/2019 01:32
2,4,5-Trichlorophenol	< 20.9	ug/L		8/10/2019 01:32
2,4,6-Trichlorophenol	< 10.4	ug/L		8/10/2019 01:32
2,4-Dichlorophenol	< 10.4	ug/L		8/10/2019 01:32
2,4-Dimethylphenol	< 20.9	ug/L		8/10/2019 01:32
2,4-Dinitrophenol	< 20.9	ug/L		8/10/2019 01:32
2,4-Dinitrotoluene	< 10.4	ug/L		8/10/2019 01:32
2,6-Dinitrotoluene	< 10.4	ug/L		8/10/2019 01:32
2-Chloronaphthalene	< 10.4	ug/L		8/10/2019 01:32
2-Chlorophenol	< 10.4	ug/L		8/10/2019 01:32
2-Methylnapthalene	< 10.4	ug/L		8/10/2019 01:32
2-Methylphenol	< 10.4	ug/L		8/10/2019 01:32
2-Nitroaniline	< 20.9	ug/L		8/10/2019 01:32
2-Nitrophenol	< 10.4	ug/L		8/10/2019 01:32
3&4-Methylphenol	< 10.4	ug/L		8/10/2019 01:32
3,3'-Dichlorobenzidine	< 10.4	ug/L		8/10/2019 01:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.9	ug/L	8/10/2019	01:32
4,6-Dinitro-2-methylphenol	< 20.9	ug/L	8/10/2019	01:32
4-Bromophenyl phenyl ether	< 10.4	ug/L	8/10/2019	01:32
4-Chloro-3-methylphenol	< 10.4	ug/L	8/10/2019	01:32
4-Chloroaniline	< 10.4	ug/L	8/10/2019	01:32
4-Chlorophenyl phenyl ether	< 10.4	ug/L	8/10/2019	01:32
4-Nitroaniline	< 20.9	ug/L	8/10/2019	01:32
4-Nitrophenol	< 20.9	ug/L	8/10/2019	01:32
Acenaphthene	< 10.4	ug/L	8/10/2019	01:32
Acenaphthylene	< 10.4	ug/L	8/10/2019	01:32
Acetophenone	< 10.4	ug/L	8/10/2019	01:32
Anthracene	< 10.4	ug/L	8/10/2019	01:32
Atrazine	< 10.4	ug/L	8/10/2019	01:32
Benzaldehyde	< 10.4	ug/L	8/10/2019	01:32
Benzo (a) anthracene	< 10.4	ug/L	8/10/2019	01:32
Benzo (a) pyrene	< 10.4	ug/L	8/10/2019	01:32
Benzo (b) fluoranthene	< 10.4	ug/L	8/10/2019	01:32
Benzo (g,h,i) perylene	< 10.4	ug/L	8/10/2019	01:32
Benzo (k) fluoranthene	< 10.4	ug/L	8/10/2019	01:32
Bis (2-chloroethoxy) methane	< 10.4	ug/L	8/10/2019	01:32
Bis (2-chloroethyl) ether	< 10.4	ug/L	8/10/2019	01:32
Bis (2-ethylhexyl) phthalate	< 10.4	ug/L	8/10/2019	01:32
Butylbenzylphthalate	< 10.4	ug/L	8/10/2019	01:32
Caprolactam	< 10.4	ug/L	8/10/2019	01:32
Carbazole	< 10.4	ug/L	8/10/2019	01:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.4	ug/L	8/10/2019	01:32
Dibenz (a,h) anthracene	< 10.4	ug/L	8/10/2019	01:32
Dibenzofuran	< 10.4	ug/L	8/10/2019	01:32
Diethyl phthalate	< 10.4	ug/L	8/10/2019	01:32
Dimethyl phthalate	< 20.9	ug/L	8/10/2019	01:32
Di-n-butyl phthalate	< 10.4	ug/L	8/10/2019	01:32
Di-n-octylphthalate	< 10.4	ug/L	8/10/2019	01:32
Fluoranthene	< 10.4	ug/L	8/10/2019	01:32
Fluorene	< 10.4	ug/L	8/10/2019	01:32
Hexachlorobenzene	< 10.4	ug/L	8/10/2019	01:32
Hexachlorobutadiene	< 10.4	ug/L	8/10/2019	01:32
Hexachlorocyclopentadiene	< 10.4	ug/L	8/10/2019	01:32
Hexachloroethane	< 10.4	ug/L	8/10/2019	01:32
Indeno (1,2,3-cd) pyrene	< 10.4	ug/L	8/10/2019	01:32
Isophorone	< 10.4	ug/L	8/10/2019	01:32
Naphthalene	< 10.4	ug/L	8/10/2019	01:32
Nitrobenzene	< 10.4	ug/L	8/10/2019	01:32
N-Nitroso-di-n-propylamine	< 10.4	ug/L	8/10/2019	01:32
N-Nitrosodiphenylamine	< 10.4	ug/L	8/10/2019	01:32
Pentachlorophenol	< 20.9	ug/L	8/10/2019	01:32
Phenanthrene	< 10.4	ug/L	8/10/2019	01:32
Phenol	< 10.4	ug/L	8/10/2019	01:32
Pyrene	< 10.4	ug/L	8/10/2019	01:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.8**	54.2 - 126		8/10/2019	01:32
2-Fluorobiphenyl	**66.0**	37.6 - 102		8/10/2019	01:32
2-Fluorophenol	**49.3**	15.1 - 106		8/10/2019	01:32
Nitrobenzene-d5	**79.0**	53.3 - 103		8/10/2019	01:32
Phenol-d5	**32.8**	10 - 108		8/10/2019	01:32
Terphenyl-d14	**74.4**	61.8 - 114		8/10/2019	01:32

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39835.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 18:29
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:29
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:29
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 18:29
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 18:29
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:29
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 18:29
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:29
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:29
1,4-Dioxane	< 20.0	ug/L		8/14/2019 18:29
2-Butanone	< 10.0	ug/L		8/14/2019 18:29
2-Hexanone	< 5.00	ug/L		8/14/2019 18:29
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 18:29
Acetone	< 10.0	ug/L		8/14/2019 18:29
Benzene	< 1.00	ug/L		8/14/2019 18:29
Bromochloromethane	< 5.00	ug/L		8/14/2019 18:29
Bromodichloromethane	< 2.00	ug/L		8/14/2019 18:29
Bromoform	< 5.00	ug/L		8/14/2019 18:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	18:29
Carbon disulfide	< 2.00	ug/L	8/14/2019	18:29
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	18:29
Chlorobenzene	< 2.00	ug/L	8/14/2019	18:29
Chloroethane	< 2.00	ug/L	8/14/2019	18:29
Chloroform	< 2.00	ug/L	8/14/2019	18:29
Chloromethane	< 2.00	ug/L	8/14/2019	18:29
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	18:29
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	18:29
Cyclohexane	< 10.0	ug/L	8/14/2019	18:29
Dibromochloromethane	< 2.00	ug/L	8/14/2019	18:29
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	18:29
Ethylbenzene	< 2.00	ug/L	8/14/2019	18:29
Freon 113	< 2.00	ug/L	8/14/2019	18:29
Isopropylbenzene	< 2.00	ug/L	8/14/2019	18:29
m,p-Xylene	< 2.00	ug/L	8/14/2019	18:29
Methyl acetate	< 2.00	ug/L	8/14/2019	18:29
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	18:29
Methylcyclohexane	< 2.00	ug/L	8/14/2019	18:29
Methylene chloride	< 5.00	ug/L	8/14/2019	18:29
o-Xylene	< 2.00	ug/L	8/14/2019	18:29
Styrene	< 5.00	ug/L	8/14/2019	18:29
Tetrachloroethene	< 2.00	ug/L	8/14/2019	18:29
Toluene	< 2.00	ug/L	8/14/2019	18:29
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	18:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	18:29
Trichloroethene	< 2.00	ug/L	8/14/2019	18:29
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	18:29
Vinyl chloride	< 2.00	ug/L	8/14/2019	18:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	73.4 - 131		8/14/2019	18:29
4-Bromofluorobenzene	**96.2**	57.2 - 129		8/14/2019	18:29
Pentafluorobenzene	**89.2**	87 - 112		8/14/2019	18:29
Toluene-D8	**101**	78.3 - 115		8/14/2019	18:29

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63588.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		8/10/2019 02:01
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,2,4-Trichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,2-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,3-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,4-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		8/10/2019 02:01
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		8/10/2019 02:01
2,4,5-Trichlorophenol	< 20.0	ug/L		8/10/2019 02:01
2,4,6-Trichlorophenol	< 10.0	ug/L		8/10/2019 02:01
2,4-Dichlorophenol	< 10.0	ug/L		8/10/2019 02:01
2,4-Dimethylphenol	< 20.0	ug/L		8/10/2019 02:01
2,4-Dinitrophenol	< 20.0	ug/L		8/10/2019 02:01
2,4-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:01
2,6-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:01
2-Chloronaphthalene	< 10.0	ug/L		8/10/2019 02:01
2-Chlorophenol	< 10.0	ug/L		8/10/2019 02:01
2-Methylnapthalene	< 10.0	ug/L		8/10/2019 02:01
2-Methylphenol	< 10.0	ug/L		8/10/2019 02:01
2-Nitroaniline	< 20.0	ug/L		8/10/2019 02:01
2-Nitrophenol	< 10.0	ug/L		8/10/2019 02:01
3&4-Methylphenol	< 10.0	ug/L		8/10/2019 02:01
3,3'-Dichlorobenzidine	< 10.0	ug/L		8/10/2019 02:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.0	ug/L	8/10/2019	02:01
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	8/10/2019	02:01
4-Bromophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:01
4-Chloro-3-methylphenol	< 10.0	ug/L	8/10/2019	02:01
4-Chloroaniline	< 10.0	ug/L	8/10/2019	02:01
4-Chlorophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:01
4-Nitroaniline	< 20.0	ug/L	8/10/2019	02:01
4-Nitrophenol	< 20.0	ug/L	8/10/2019	02:01
Acenaphthene	< 10.0	ug/L	8/10/2019	02:01
Acenaphthylene	< 10.0	ug/L	8/10/2019	02:01
Acetophenone	< 10.0	ug/L	8/10/2019	02:01
Anthracene	< 10.0	ug/L	8/10/2019	02:01
Atrazine	< 10.0	ug/L	8/10/2019	02:01
Benzaldehyde	< 10.0	ug/L	8/10/2019	02:01
Benzo (a) anthracene	< 10.0	ug/L	8/10/2019	02:01
Benzo (a) pyrene	< 10.0	ug/L	8/10/2019	02:01
Benzo (b) fluoranthene	< 10.0	ug/L	8/10/2019	02:01
Benzo (g,h,i) perylene	< 10.0	ug/L	8/10/2019	02:01
Benzo (k) fluoranthene	< 10.0	ug/L	8/10/2019	02:01
Bis (2-chloroethoxy) methane	< 10.0	ug/L	8/10/2019	02:01
Bis (2-chloroethyl) ether	< 10.0	ug/L	8/10/2019	02:01
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	8/10/2019	02:01
Butylbenzylphthalate	< 10.0	ug/L	8/10/2019	02:01
Caprolactam	< 10.0	ug/L	8/10/2019	02:01
Carbazole	< 10.0	ug/L	8/10/2019	02:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.0	ug/L	8/10/2019	02:01
Dibenz (a,h) anthracene	< 10.0	ug/L	8/10/2019	02:01
Dibenzofuran	< 10.0	ug/L	8/10/2019	02:01
Diethyl phthalate	< 10.0	ug/L	8/10/2019	02:01
Dimethyl phthalate	< 20.0	ug/L	8/10/2019	02:01
Di-n-butyl phthalate	< 10.0	ug/L	8/10/2019	02:01
Di-n-octylphthalate	< 10.0	ug/L	8/10/2019	02:01
Fluoranthene	< 10.0	ug/L	8/10/2019	02:01
Fluorene	< 10.0	ug/L	8/10/2019	02:01
Hexachlorobenzene	< 10.0	ug/L	8/10/2019	02:01
Hexachlorobutadiene	< 10.0	ug/L	8/10/2019	02:01
Hexachlorocyclopentadiene	< 10.0	ug/L	8/10/2019	02:01
Hexachloroethane	< 10.0	ug/L	8/10/2019	02:01
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	8/10/2019	02:01
Isophorone	< 10.0	ug/L	8/10/2019	02:01
Naphthalene	< 10.0	ug/L	8/10/2019	02:01
Nitrobenzene	< 10.0	ug/L	8/10/2019	02:01
N-Nitroso-di-n-propylamine	< 10.0	ug/L	8/10/2019	02:01
N-Nitrosodiphenylamine	< 10.0	ug/L	8/10/2019	02:01
Pentachlorophenol	< 20.0	ug/L	8/10/2019	02:01
Phenanthrene	< 10.0	ug/L	8/10/2019	02:01
Phenol	< 10.0	ug/L	8/10/2019	02:01
Pyrene	< 10.0	ug/L	8/10/2019	02:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.1**	54.2 - 126		8/10/2019	02:01
2-Fluorobiphenyl	**47.7**	37.6 - 102		8/10/2019	02:01
2-Fluorophenol	**42.7**	15.1 - 106		8/10/2019	02:01
Nitrobenzene-d5	**66.4**	53.3 - 103		8/10/2019	02:01
Phenol-d5	**29.5**	10 - 108		8/10/2019	02:01
Terphenyl-d14	**71.1**	61.8 - 114		8/10/2019	02:01

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39836.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1,2-Trichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1-Dichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1-Dichloroethene	< 2.00	ug/L		8/15/2019 19:09
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:09
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/15/2019 19:09
1,2-Dibromoethane	< 2.00	ug/L		8/15/2019 19:09
1,2-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:09
1,2-Dichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,2-Dichloropropane	< 2.00	ug/L		8/15/2019 19:09
1,3-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:09
1,4-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:09
1,4-Dioxane	< 20.0	ug/L		8/15/2019 19:09
2-Butanone	< 10.0	ug/L		8/15/2019 19:09
2-Hexanone	< 5.00	ug/L		8/15/2019 19:09
4-Methyl-2-pentanone	< 5.00	ug/L		8/15/2019 19:09
Acetone	< 10.0	ug/L		8/15/2019 19:09
Benzene	< 1.00	ug/L		8/15/2019 19:09
Bromochloromethane	< 5.00	ug/L		8/15/2019 19:09
Bromodichloromethane	< 2.00	ug/L		8/15/2019 19:09
Bromoform	< 5.00	ug/L		8/15/2019 19:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/15/2019	19:09
Carbon disulfide	< 2.00	ug/L	8/15/2019	19:09
Carbon Tetrachloride	< 2.00	ug/L	8/15/2019	19:09
Chlorobenzene	< 2.00	ug/L	8/15/2019	19:09
Chloroethane	< 2.00	ug/L	8/15/2019	19:09
Chloroform	< 2.00	ug/L	8/15/2019	19:09
Chloromethane	< 2.00	ug/L	8/15/2019	19:09
cis-1,2-Dichloroethene	< 2.00	ug/L	8/15/2019	19:09
cis-1,3-Dichloropropene	< 2.00	ug/L	8/15/2019	19:09
Cyclohexane	< 10.0	ug/L	8/15/2019	19:09
Dibromochloromethane	< 2.00	ug/L	8/15/2019	19:09
Dichlorodifluoromethane	< 2.00	ug/L	8/15/2019	19:09
Ethylbenzene	< 2.00	ug/L	8/15/2019	19:09
Freon 113	< 2.00	ug/L	8/15/2019	19:09
Isopropylbenzene	< 2.00	ug/L	8/15/2019	19:09
m,p-Xylene	< 2.00	ug/L	8/15/2019	19:09
Methyl acetate	< 2.00	ug/L	8/15/2019	19:09
Methyl tert-butyl Ether	**48.7**	ug/L	8/15/2019	19:09
Methylcyclohexane	< 2.00	ug/L	8/15/2019	19:09
Methylene chloride	< 5.00	ug/L	8/15/2019	19:09
o-Xylene	< 2.00	ug/L	8/15/2019	19:09
Styrene	< 5.00	ug/L	8/15/2019	19:09
Tetrachloroethene	< 2.00	ug/L	8/15/2019	19:09
Toluene	< 2.00	ug/L	8/15/2019	19:09
trans-1,2-Dichloroethene	< 2.00	ug/L	8/15/2019	19:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/15/2019	19:09
Trichloroethene	< 2.00	ug/L	8/15/2019	19:09
Trichlorofluoromethane	< 2.00	ug/L	8/15/2019	19:09
Vinyl chloride	< 2.00	ug/L	8/15/2019	19:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	73.4 - 131		8/15/2019	19:09
4-Bromofluorobenzene	**98.4**	57.2 - 129		8/15/2019	19:09
Pentafluorobenzene	**91.3**	87 - 112		8/15/2019	19:09
Toluene-D8	**95.4**	78.3 - 115		8/15/2019	19:09

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63642.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		8/10/2019 02:29
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,2,4-Trichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,2-Dichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,3-Dichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,4-Dichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		8/10/2019 02:29
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		8/10/2019 02:29
2,4,5-Trichlorophenol	< 20.1	ug/L		8/10/2019 02:29
2,4,6-Trichlorophenol	< 10.1	ug/L		8/10/2019 02:29
2,4-Dichlorophenol	< 10.1	ug/L		8/10/2019 02:29
2,4-Dimethylphenol	< 20.1	ug/L		8/10/2019 02:29
2,4-Dinitrophenol	< 20.1	ug/L		8/10/2019 02:29
2,4-Dinitrotoluene	< 10.1	ug/L		8/10/2019 02:29
2,6-Dinitrotoluene	< 10.1	ug/L		8/10/2019 02:29
2-Chloronaphthalene	< 10.1	ug/L		8/10/2019 02:29
2-Chlorophenol	< 10.1	ug/L		8/10/2019 02:29
2-Methylnapthalene	< 10.1	ug/L		8/10/2019 02:29
2-Methylphenol	< 10.1	ug/L		8/10/2019 02:29
2-Nitroaniline	< 20.1	ug/L		8/10/2019 02:29
2-Nitrophenol	< 10.1	ug/L		8/10/2019 02:29
3&4-Methylphenol	< 10.1	ug/L		8/10/2019 02:29
3,3'-Dichlorobenzidine	< 10.1	ug/L		8/10/2019 02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.1	ug/L	8/10/2019	02:29
4,6-Dinitro-2-methylphenol	< 20.1	ug/L	8/10/2019	02:29
4-Bromophenyl phenyl ether	< 10.1	ug/L	8/10/2019	02:29
4-Chloro-3-methylphenol	< 10.1	ug/L	8/10/2019	02:29
4-Chloroaniline	< 10.1	ug/L	8/10/2019	02:29
4-Chlorophenyl phenyl ether	< 10.1	ug/L	8/10/2019	02:29
4-Nitroaniline	< 20.1	ug/L	8/10/2019	02:29
4-Nitrophenol	< 20.1	ug/L	8/10/2019	02:29
Acenaphthene	< 10.1	ug/L	8/10/2019	02:29
Acenaphthylene	< 10.1	ug/L	8/10/2019	02:29
Acetophenone	< 10.1	ug/L	8/10/2019	02:29
Anthracene	< 10.1	ug/L	8/10/2019	02:29
Atrazine	< 10.1	ug/L	8/10/2019	02:29
Benzaldehyde	< 10.1	ug/L	8/10/2019	02:29
Benzo (a) anthracene	< 10.1	ug/L	8/10/2019	02:29
Benzo (a) pyrene	< 10.1	ug/L	8/10/2019	02:29
Benzo (b) fluoranthene	< 10.1	ug/L	8/10/2019	02:29
Benzo (g,h,i) perylene	< 10.1	ug/L	8/10/2019	02:29
Benzo (k) fluoranthene	< 10.1	ug/L	8/10/2019	02:29
Bis (2-chloroethoxy) methane	< 10.1	ug/L	8/10/2019	02:29
Bis (2-chloroethyl) ether	< 10.1	ug/L	8/10/2019	02:29
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	8/10/2019	02:29
Butylbenzylphthalate	< 10.1	ug/L	8/10/2019	02:29
Caprolactam	< 10.1	ug/L	8/10/2019	02:29
Carbazole	< 10.1	ug/L	8/10/2019	02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.1	ug/L	8/10/2019	02:29
Dibenz (a,h) anthracene	< 10.1	ug/L	8/10/2019	02:29
Dibenzofuran	< 10.1	ug/L	8/10/2019	02:29
Diethyl phthalate	< 10.1	ug/L	8/10/2019	02:29
Dimethyl phthalate	< 20.1	ug/L	8/10/2019	02:29
Di-n-butyl phthalate	< 10.1	ug/L	8/10/2019	02:29
Di-n-octylphthalate	< 10.1	ug/L	8/10/2019	02:29
Fluoranthene	< 10.1	ug/L	8/10/2019	02:29
Fluorene	< 10.1	ug/L	8/10/2019	02:29
Hexachlorobenzene	< 10.1	ug/L	8/10/2019	02:29
Hexachlorobutadiene	< 10.1	ug/L	8/10/2019	02:29
Hexachlorocyclopentadiene	< 10.1	ug/L	8/10/2019	02:29
Hexachloroethane	< 10.1	ug/L	8/10/2019	02:29
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	8/10/2019	02:29
Isophorone	< 10.1	ug/L	8/10/2019	02:29
Naphthalene	< 10.1	ug/L	8/10/2019	02:29
Nitrobenzene	< 10.1	ug/L	8/10/2019	02:29
N-Nitroso-di-n-propylamine	< 10.1	ug/L	8/10/2019	02:29
N-Nitrosodiphenylamine	< 10.1	ug/L	8/10/2019	02:29
Pentachlorophenol	< 20.1	ug/L	8/10/2019	02:29
Phenanthrene	< 10.1	ug/L	8/10/2019	02:29
Phenol	< 10.1	ug/L	8/10/2019	02:29
Pyrene	< 10.1	ug/L	8/10/2019	02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.7**	54.2 - 126		8/10/2019	02:29
2-Fluorobiphenyl	**62.4**	37.6 - 102		8/10/2019	02:29
2-Fluorophenol	**46.1**	15.1 - 106		8/10/2019	02:29
Nitrobenzene-d5	**79.7**	53.3 - 103		8/10/2019	02:29
Phenol-d5	**30.7**	10 - 108		8/10/2019	02:29
Terphenyl-d14	**78.2**	61.8 - 114		8/10/2019	02:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39837.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 19:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 19:14
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 19:14
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:14
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 19:14
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:14
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:14
1,4-Dioxane	< 20.0	ug/L		8/14/2019 19:14
2-Butanone	< 10.0	ug/L		8/14/2019 19:14
2-Hexanone	< 5.00	ug/L		8/14/2019 19:14
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 19:14
Acetone	< 10.0	ug/L		8/14/2019 19:14
Benzene	**3.09**	ug/L		8/14/2019 19:14
Bromochloromethane	< 5.00	ug/L		8/14/2019 19:14
Bromodichloromethane	< 2.00	ug/L		8/14/2019 19:14
Bromoform	< 5.00	ug/L		8/14/2019 19:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	19:14
Carbon disulfide	< 2.00	ug/L	8/14/2019	19:14
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	19:14
Chlorobenzene	< 2.00	ug/L	8/14/2019	19:14
Chloroethane	< 2.00	ug/L	8/14/2019	19:14
Chloroform	< 2.00	ug/L	8/14/2019	19:14
Chloromethane	< 2.00	ug/L	8/14/2019	19:14
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:14
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:14
Cyclohexane	< 10.0	ug/L	8/14/2019	19:14
Dibromochloromethane	< 2.00	ug/L	8/14/2019	19:14
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	19:14
Ethylbenzene	< 2.00	ug/L	8/14/2019	19:14
Freon 113	< 2.00	ug/L	8/14/2019	19:14
Isopropylbenzene	< 2.00	ug/L	8/14/2019	19:14
m,p-Xylene	< 2.00	ug/L	8/14/2019	19:14
Methyl acetate	< 2.00	ug/L	8/14/2019	19:14
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	19:14
Methylcyclohexane	< 2.00	ug/L	8/14/2019	19:14
Methylene chloride	< 5.00	ug/L	8/14/2019	19:14
o-Xylene	< 2.00	ug/L	8/14/2019	19:14
Styrene	< 5.00	ug/L	8/14/2019	19:14
Tetrachloroethene	< 2.00	ug/L	8/14/2019	19:14
Toluene	< 2.00	ug/L	8/14/2019	19:14
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:14
Trichloroethene	< 2.00	ug/L	8/14/2019	19:14
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	19:14
Vinyl chloride	< 2.00	ug/L	8/14/2019	19:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	73.4 - 131		8/14/2019	19:14
4-Bromofluorobenzene	**105**	57.2 - 129		8/14/2019	19:14
Pentafluorobenzene	**90.2**	87 - 112		8/14/2019	19:14
Toluene-D8	**105**	78.3 - 115		8/14/2019	19:14

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63590.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		8/10/2019 02:58
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,2,4-Trichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,2-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,3-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,4-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		8/10/2019 02:58
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		8/10/2019 02:58
2,4,5-Trichlorophenol	< 20.0	ug/L		8/10/2019 02:58
2,4,6-Trichlorophenol	< 10.0	ug/L		8/10/2019 02:58
2,4-Dichlorophenol	< 10.0	ug/L		8/10/2019 02:58
2,4-Dimethylphenol	< 20.0	ug/L		8/10/2019 02:58
2,4-Dinitrophenol	< 20.0	ug/L		8/10/2019 02:58
2,4-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:58
2,6-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:58
2-Chloronaphthalene	< 10.0	ug/L		8/10/2019 02:58
2-Chlorophenol	< 10.0	ug/L		8/10/2019 02:58
2-Methylnapthalene	< 10.0	ug/L		8/10/2019 02:58
2-Methylphenol	< 10.0	ug/L		8/10/2019 02:58
2-Nitroaniline	< 20.0	ug/L		8/10/2019 02:58
2-Nitrophenol	< 10.0	ug/L		8/10/2019 02:58
3&4-Methylphenol	< 10.0	ug/L		8/10/2019 02:58
3,3'-Dichlorobenzidine	< 10.0	ug/L		8/10/2019 02:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.0	ug/L	8/10/2019	02:58
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	8/10/2019	02:58
4-Bromophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:58
4-Chloro-3-methylphenol	< 10.0	ug/L	8/10/2019	02:58
4-Chloroaniline	< 10.0	ug/L	8/10/2019	02:58
4-Chlorophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:58
4-Nitroaniline	< 20.0	ug/L	8/10/2019	02:58
4-Nitrophenol	< 20.0	ug/L	8/10/2019	02:58
Acenaphthene	< 10.0	ug/L	8/10/2019	02:58
Acenaphthylene	< 10.0	ug/L	8/10/2019	02:58
Acetophenone	< 10.0	ug/L	8/10/2019	02:58
Anthracene	< 10.0	ug/L	8/10/2019	02:58
Atrazine	< 10.0	ug/L	8/10/2019	02:58
Benzaldehyde	< 10.0	ug/L	8/10/2019	02:58
Benzo (a) anthracene	< 10.0	ug/L	8/10/2019	02:58
Benzo (a) pyrene	< 10.0	ug/L	8/10/2019	02:58
Benzo (b) fluoranthene	< 10.0	ug/L	8/10/2019	02:58
Benzo (g,h,i) perylene	< 10.0	ug/L	8/10/2019	02:58
Benzo (k) fluoranthene	< 10.0	ug/L	8/10/2019	02:58
Bis (2-chloroethoxy) methane	< 10.0	ug/L	8/10/2019	02:58
Bis (2-chloroethyl) ether	< 10.0	ug/L	8/10/2019	02:58
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	8/10/2019	02:58
Butylbenzylphthalate	< 10.0	ug/L	8/10/2019	02:58
Caprolactam	< 10.0	ug/L	8/10/2019	02:58
Carbazole	< 10.0	ug/L	8/10/2019	02:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.0	ug/L	8/10/2019	02:58
Dibenz (a,h) anthracene	< 10.0	ug/L	8/10/2019	02:58
Dibenzofuran	< 10.0	ug/L	8/10/2019	02:58
Diethyl phthalate	< 10.0	ug/L	8/10/2019	02:58
Dimethyl phthalate	< 20.0	ug/L	8/10/2019	02:58
Di-n-butyl phthalate	< 10.0	ug/L	8/10/2019	02:58
Di-n-octylphthalate	< 10.0	ug/L	8/10/2019	02:58
Fluoranthene	< 10.0	ug/L	8/10/2019	02:58
Fluorene	< 10.0	ug/L	8/10/2019	02:58
Hexachlorobenzene	< 10.0	ug/L	8/10/2019	02:58
Hexachlorobutadiene	< 10.0	ug/L	8/10/2019	02:58
Hexachlorocyclopentadiene	< 10.0	ug/L	8/10/2019	02:58
Hexachloroethane	< 10.0	ug/L	8/10/2019	02:58
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	8/10/2019	02:58
Isophorone	< 10.0	ug/L	8/10/2019	02:58
Naphthalene	< 10.0	ug/L	8/10/2019	02:58
Nitrobenzene	< 10.0	ug/L	8/10/2019	02:58
N-Nitroso-di-n-propylamine	< 10.0	ug/L	8/10/2019	02:58
N-Nitrosodiphenylamine	< 10.0	ug/L	8/10/2019	02:58
Pentachlorophenol	< 20.0	ug/L	8/10/2019	02:58
Phenanthrene	< 10.0	ug/L	8/10/2019	02:58
Phenol	< 10.0	ug/L	8/10/2019	02:58
Pyrene	< 10.0	ug/L	8/10/2019	02:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.2**	54.2 - 126		8/10/2019	02:58
2-Fluorobiphenyl	**53.5**	37.6 - 102		8/10/2019	02:58
2-Fluorophenol	**43.8**	15.1 - 106		8/10/2019	02:58
Nitrobenzene-d5	**69.6**	53.3 - 103		8/10/2019	02:58
Phenol-d5	**29.7**	10 - 108		8/10/2019	02:58
Terphenyl-d14	**71.9**	61.8 - 114		8/10/2019	02:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39838.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1,2-Trichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1-Dichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1-Dichloroethene	< 2.00	ug/L		8/15/2019 19:31
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:31
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:31
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/15/2019 19:31
1,2-Dibromoethane	< 2.00	ug/L		8/15/2019 19:31
1,2-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:31
1,2-Dichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,2-Dichloropropane	< 2.00	ug/L		8/15/2019 19:31
1,3-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:31
1,4-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:31
1,4-Dioxane	< 20.0	ug/L		8/15/2019 19:31
2-Butanone	< 10.0	ug/L		8/15/2019 19:31
2-Hexanone	< 5.00	ug/L		8/15/2019 19:31
4-Methyl-2-pentanone	< 5.00	ug/L		8/15/2019 19:31
Acetone	**34.7**	ug/L		8/15/2019 19:31
Benzene	< 1.00	ug/L		8/15/2019 19:31
Bromochloromethane	< 5.00	ug/L		8/15/2019 19:31
Bromodichloromethane	< 2.00	ug/L		8/15/2019 19:31
Bromoform	< 5.00	ug/L		8/15/2019 19:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L		8/15/2019	19:31
Carbon disulfide	< 2.00	ug/L		8/15/2019	19:31
Carbon Tetrachloride	< 2.00	ug/L		8/15/2019	19:31
Chlorobenzene	< 2.00	ug/L		8/15/2019	19:31
Chloroethane	< 2.00	ug/L		8/15/2019	19:31
Chloroform	< 2.00	ug/L		8/15/2019	19:31
Chloromethane	< 2.00	ug/L		8/15/2019	19:31
cis-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	19:31
cis-1,3-Dichloropropene	< 2.00	ug/L		8/15/2019	19:31
Cyclohexane	< 10.0	ug/L		8/15/2019	19:31
Dibromochloromethane	< 2.00	ug/L		8/15/2019	19:31
Dichlorodifluoromethane	< 2.00	ug/L		8/15/2019	19:31
Ethylbenzene	**1.12**	ug/L	J	8/15/2019	19:31
Freon 113	< 2.00	ug/L		8/15/2019	19:31
Isopropylbenzene	< 2.00	ug/L		8/15/2019	19:31
m,p-Xylene	< 2.00	ug/L		8/15/2019	19:31
Methyl acetate	< 2.00	ug/L		8/15/2019	19:31
Methyl tert-butyl Ether	< 2.00	ug/L		8/15/2019	19:31
Methylcyclohexane	< 2.00	ug/L		8/15/2019	19:31
Methylene chloride	< 5.00	ug/L		8/15/2019	19:31
o-Xylene	< 2.00	ug/L		8/15/2019	19:31
Styrene	< 5.00	ug/L		8/15/2019	19:31
Tetrachloroethene	< 2.00	ug/L		8/15/2019	19:31
Toluene	< 2.00	ug/L		8/15/2019	19:31
trans-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	19:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/15/2019	19:31
Trichloroethene	< 2.00	ug/L	8/15/2019	19:31
Trichlorofluoromethane	< 2.00	ug/L	8/15/2019	19:31
Vinyl chloride	< 2.00	ug/L	8/15/2019	19:31

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	73.4 - 131		8/15/2019	19:31
4-Bromofluorobenzene	**94.6**	57.2 - 129		8/15/2019	19:31
Pentafluorobenzene	**94.0**	87 - 112		8/15/2019	19:31
Toluene-D8	**97.8**	78.3 - 115		8/15/2019	19:31

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63643.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		8/10/2019 03:27
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,2,4-Trichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,2-Dichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,3-Dichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,4-Dichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		8/10/2019 03:27
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		8/10/2019 03:27
2,4,5-Trichlorophenol	< 20.4	ug/L		8/10/2019 03:27
2,4,6-Trichlorophenol	< 10.2	ug/L		8/10/2019 03:27
2,4-Dichlorophenol	< 10.2	ug/L		8/10/2019 03:27
2,4-Dimethylphenol	< 20.4	ug/L		8/10/2019 03:27
2,4-Dinitrophenol	< 20.4	ug/L		8/10/2019 03:27
2,4-Dinitrotoluene	< 10.2	ug/L		8/10/2019 03:27
2,6-Dinitrotoluene	< 10.2	ug/L		8/10/2019 03:27
2-Chloronaphthalene	< 10.2	ug/L		8/10/2019 03:27
2-Chlorophenol	< 10.2	ug/L		8/10/2019 03:27
2-Methylnapthalene	< 10.2	ug/L		8/10/2019 03:27
2-Methylphenol	< 10.2	ug/L		8/10/2019 03:27
2-Nitroaniline	< 20.4	ug/L		8/10/2019 03:27
2-Nitrophenol	< 10.2	ug/L		8/10/2019 03:27
3&4-Methylphenol	< 10.2	ug/L		8/10/2019 03:27
3,3'-Dichlorobenzidine	< 10.2	ug/L		8/10/2019 03:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.4	ug/L	8/10/2019	03:27
4,6-Dinitro-2-methylphenol	< 20.4	ug/L	8/10/2019	03:27
4-Bromophenyl phenyl ether	< 10.2	ug/L	8/10/2019	03:27
4-Chloro-3-methylphenol	< 10.2	ug/L	8/10/2019	03:27
4-Chloroaniline	< 10.2	ug/L	8/10/2019	03:27
4-Chlorophenyl phenyl ether	< 10.2	ug/L	8/10/2019	03:27
4-Nitroaniline	< 20.4	ug/L	8/10/2019	03:27
4-Nitrophenol	< 20.4	ug/L	8/10/2019	03:27
Acenaphthene	< 10.2	ug/L	8/10/2019	03:27
Acenaphthylene	< 10.2	ug/L	8/10/2019	03:27
Acetophenone	< 10.2	ug/L	8/10/2019	03:27
Anthracene	< 10.2	ug/L	8/10/2019	03:27
Atrazine	< 10.2	ug/L	8/10/2019	03:27
Benzaldehyde	< 10.2	ug/L	8/10/2019	03:27
Benzo (a) anthracene	< 10.2	ug/L	8/10/2019	03:27
Benzo (a) pyrene	< 10.2	ug/L	8/10/2019	03:27
Benzo (b) fluoranthene	< 10.2	ug/L	8/10/2019	03:27
Benzo (g,h,i) perylene	< 10.2	ug/L	8/10/2019	03:27
Benzo (k) fluoranthene	< 10.2	ug/L	8/10/2019	03:27
Bis (2-chloroethoxy) methane	< 10.2	ug/L	8/10/2019	03:27
Bis (2-chloroethyl) ether	< 10.2	ug/L	8/10/2019	03:27
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	8/10/2019	03:27
Butylbenzylphthalate	< 10.2	ug/L	8/10/2019	03:27
Caprolactam	< 10.2	ug/L	8/10/2019	03:27
Carbazole	< 10.2	ug/L	8/10/2019	03:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.2	ug/L	8/10/2019	03:27
Dibenz (a,h) anthracene	< 10.2	ug/L	8/10/2019	03:27
Dibenzofuran	< 10.2	ug/L	8/10/2019	03:27
Diethyl phthalate	< 10.2	ug/L	8/10/2019	03:27
Dimethyl phthalate	< 20.4	ug/L	8/10/2019	03:27
Di-n-butyl phthalate	< 10.2	ug/L	8/10/2019	03:27
Di-n-octylphthalate	< 10.2	ug/L	8/10/2019	03:27
Fluoranthene	< 10.2	ug/L	8/10/2019	03:27
Fluorene	< 10.2	ug/L	8/10/2019	03:27
Hexachlorobenzene	< 10.2	ug/L	8/10/2019	03:27
Hexachlorobutadiene	< 10.2	ug/L	8/10/2019	03:27
Hexachlorocyclopentadiene	< 10.2	ug/L	8/10/2019	03:27
Hexachloroethane	< 10.2	ug/L	8/10/2019	03:27
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	8/10/2019	03:27
Isophorone	< 10.2	ug/L	8/10/2019	03:27
Naphthalene	< 10.2	ug/L	8/10/2019	03:27
Nitrobenzene	< 10.2	ug/L	8/10/2019	03:27
N-Nitroso-di-n-propylamine	< 10.2	ug/L	8/10/2019	03:27
N-Nitrosodiphenylamine	< 10.2	ug/L	8/10/2019	03:27
Pentachlorophenol	< 20.4	ug/L	8/10/2019	03:27
Phenanthrene	< 10.2	ug/L	8/10/2019	03:27
Phenol	< 10.2	ug/L	8/10/2019	03:27
Pyrene	< 10.2	ug/L	8/10/2019	03:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**83.4**	54.2 - 126		8/10/2019	03:27
2-Fluorobiphenyl	**69.4**	37.6 - 102		8/10/2019	03:27
2-Fluorophenol	**41.1**	15.1 - 106		8/10/2019	03:27
Nitrobenzene-d5	**82.5**	53.3 - 103		8/10/2019	03:27
Phenol-d5	**25.7**	10 - 108		8/10/2019	03:27
Terphenyl-d14	**72.7**	61.8 - 114		8/10/2019	03:27

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39839.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 19:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 19:59
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 19:59
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:59
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 19:59
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:59
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:59
1,4-Dioxane	< 20.0	ug/L		8/14/2019 19:59
2-Butanone	< 10.0	ug/L		8/14/2019 19:59
2-Hexanone	< 5.00	ug/L		8/14/2019 19:59
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 19:59
Acetone	< 10.0	ug/L		8/14/2019 19:59
Benzene	**2.03**	ug/L		8/14/2019 19:59
Bromochloromethane	< 5.00	ug/L		8/14/2019 19:59
Bromodichloromethane	< 2.00	ug/L		8/14/2019 19:59
Bromoform	< 5.00	ug/L		8/14/2019 19:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	19:59
Carbon disulfide	< 2.00	ug/L	8/14/2019	19:59
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	19:59
Chlorobenzene	< 2.00	ug/L	8/14/2019	19:59
Chloroethane	< 2.00	ug/L	8/14/2019	19:59
Chloroform	< 2.00	ug/L	8/14/2019	19:59
Chloromethane	< 2.00	ug/L	8/14/2019	19:59
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:59
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:59
Cyclohexane	< 10.0	ug/L	8/14/2019	19:59
Dibromochloromethane	< 2.00	ug/L	8/14/2019	19:59
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	19:59
Ethylbenzene	< 2.00	ug/L	8/14/2019	19:59
Freon 113	< 2.00	ug/L	8/14/2019	19:59
Isopropylbenzene	**25.5**	ug/L	8/14/2019	19:59
m,p-Xylene	< 2.00	ug/L	8/14/2019	19:59
Methyl acetate	< 2.00	ug/L	8/14/2019	19:59
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	19:59
Methylcyclohexane	< 2.00	ug/L	8/14/2019	19:59
Methylene chloride	< 5.00	ug/L	8/14/2019	19:59
o-Xylene	< 2.00	ug/L	8/14/2019	19:59
Styrene	< 5.00	ug/L	8/14/2019	19:59
Tetrachloroethene	< 2.00	ug/L	8/14/2019	19:59
Toluene	< 2.00	ug/L	8/14/2019	19:59
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:59
Trichloroethene	< 2.00	ug/L	8/14/2019	19:59
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	19:59
Vinyl chloride	< 2.00	ug/L	8/14/2019	19:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	73.4 - 131		8/14/2019	19:59
4-Bromofluorobenzene	**350**	57.2 - 129	*	8/14/2019	19:59
Pentafluorobenzene	**90.1**	87 - 112		8/14/2019	19:59
Toluene-D8	**203**	78.3 - 115	*	8/14/2019	19:59

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63592.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		8/10/2019 03:55
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,2,4-Trichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,2-Dichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,3-Dichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,4-Dichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		8/10/2019 03:55
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		8/10/2019 03:55
2,4,5-Trichlorophenol	< 20.6	ug/L		8/10/2019 03:55
2,4,6-Trichlorophenol	< 10.3	ug/L		8/10/2019 03:55
2,4-Dichlorophenol	< 10.3	ug/L		8/10/2019 03:55
2,4-Dimethylphenol	< 20.6	ug/L		8/10/2019 03:55
2,4-Dinitrophenol	< 20.6	ug/L		8/10/2019 03:55
2,4-Dinitrotoluene	< 10.3	ug/L		8/10/2019 03:55
2,6-Dinitrotoluene	< 10.3	ug/L		8/10/2019 03:55
2-Chloronaphthalene	< 10.3	ug/L		8/10/2019 03:55
2-Chlorophenol	< 10.3	ug/L		8/10/2019 03:55
2-Methylnapthalene	< 10.3	ug/L		8/10/2019 03:55
2-Methylphenol	< 10.3	ug/L		8/10/2019 03:55
2-Nitroaniline	< 20.6	ug/L		8/10/2019 03:55
2-Nitrophenol	< 10.3	ug/L		8/10/2019 03:55
3&4-Methylphenol	< 10.3	ug/L		8/10/2019 03:55
3,3'-Dichlorobenzidine	< 10.3	ug/L		8/10/2019 03:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.6	ug/L	8/10/2019	03:55
4,6-Dinitro-2-methylphenol	< 20.6	ug/L	8/10/2019	03:55
4-Bromophenyl phenyl ether	< 10.3	ug/L	8/10/2019	03:55
4-Chloro-3-methylphenol	< 10.3	ug/L	8/10/2019	03:55
4-Chloroaniline	< 10.3	ug/L	8/10/2019	03:55
4-Chlorophenyl phenyl ether	< 10.3	ug/L	8/10/2019	03:55
4-Nitroaniline	< 20.6	ug/L	8/10/2019	03:55
4-Nitrophenol	< 20.6	ug/L	8/10/2019	03:55
Acenaphthene	< 10.3	ug/L	8/10/2019	03:55
Acenaphthylene	< 10.3	ug/L	8/10/2019	03:55
Acetophenone	< 10.3	ug/L	8/10/2019	03:55
Anthracene	< 10.3	ug/L	8/10/2019	03:55
Atrazine	< 10.3	ug/L	8/10/2019	03:55
Benzaldehyde	< 10.3	ug/L	8/10/2019	03:55
Benzo (a) anthracene	< 10.3	ug/L	8/10/2019	03:55
Benzo (a) pyrene	< 10.3	ug/L	8/10/2019	03:55
Benzo (b) fluoranthene	< 10.3	ug/L	8/10/2019	03:55
Benzo (g,h,i) perylene	< 10.3	ug/L	8/10/2019	03:55
Benzo (k) fluoranthene	< 10.3	ug/L	8/10/2019	03:55
Bis (2-chloroethoxy) methane	< 10.3	ug/L	8/10/2019	03:55
Bis (2-chloroethyl) ether	< 10.3	ug/L	8/10/2019	03:55
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	8/10/2019	03:55
Butylbenzylphthalate	< 10.3	ug/L	8/10/2019	03:55
Caprolactam	< 10.3	ug/L	8/10/2019	03:55
Carbazole	< 10.3	ug/L	8/10/2019	03:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09
Matrix: Water
Date Sampled: 8/2/2019
Date Received: 8/5/2019

Chrysene	< 10.3	ug/L	8/10/2019	03:55
Dibenz (a,h) anthracene	< 10.3	ug/L	8/10/2019	03:55
Dibenzofuran	< 10.3	ug/L	8/10/2019	03:55
Diethyl phthalate	< 10.3	ug/L	8/10/2019	03:55
Dimethyl phthalate	< 20.6	ug/L	8/10/2019	03:55
Di-n-butyl phthalate	< 10.3	ug/L	8/10/2019	03:55
Di-n-octylphthalate	< 10.3	ug/L	8/10/2019	03:55
Fluoranthene	< 10.3	ug/L	8/10/2019	03:55
Fluorene	< 10.3	ug/L	8/10/2019	03:55
Hexachlorobenzene	< 10.3	ug/L	8/10/2019	03:55
Hexachlorobutadiene	< 10.3	ug/L	8/10/2019	03:55
Hexachlorocyclopentadiene	< 10.3	ug/L	8/10/2019	03:55
Hexachloroethane	< 10.3	ug/L	8/10/2019	03:55
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	8/10/2019	03:55
Isophorone	< 10.3	ug/L	8/10/2019	03:55
Naphthalene	< 10.3	ug/L	8/10/2019	03:55
Nitrobenzene	< 10.3	ug/L	8/10/2019	03:55
N-Nitroso-di-n-propylamine	< 10.3	ug/L	8/10/2019	03:55
N-Nitrosodiphenylamine	< 10.3	ug/L	8/10/2019	03:55
Pentachlorophenol	< 20.6	ug/L	8/10/2019	03:55
Phenanthrene	< 10.3	ug/L	8/10/2019	03:55
Phenol	< 10.3	ug/L	8/10/2019	03:55
Pyrene	< 10.3	ug/L	8/10/2019	03:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.6**	54.2 - 126		8/10/2019	03:55
2-Fluorobiphenyl	**70.7**	37.6 - 102		8/10/2019	03:55
2-Fluorophenol	**46.4**	15.1 - 106		8/10/2019	03:55
Nitrobenzene-d5	**79.4**	53.3 - 103		8/10/2019	03:55
Phenol-d5	**29.8**	10 - 108		8/10/2019	03:55
Terphenyl-d14	**74.3**	61.8 - 114		8/10/2019	03:55

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39840.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 20:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 20:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 20:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 20:21
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 20:21
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 20:21
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 20:21
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 20:21
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 20:21
1,4-Dioxane	< 20.0	ug/L		8/14/2019 20:21
2-Butanone	< 10.0	ug/L		8/14/2019 20:21
2-Hexanone	< 5.00	ug/L		8/14/2019 20:21
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 20:21
Acetone	< 10.0	ug/L		8/14/2019 20:21
Benzene	**1.80**	ug/L		8/14/2019 20:21
Bromochloromethane	< 5.00	ug/L		8/14/2019 20:21
Bromodichloromethane	< 2.00	ug/L		8/14/2019 20:21
Bromoform	< 5.00	ug/L		8/14/2019 20:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	20:21
Carbon disulfide	< 2.00	ug/L	8/14/2019	20:21
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	20:21
Chlorobenzene	< 2.00	ug/L	8/14/2019	20:21
Chloroethane	< 2.00	ug/L	8/14/2019	20:21
Chloroform	< 2.00	ug/L	8/14/2019	20:21
Chloromethane	< 2.00	ug/L	8/14/2019	20:21
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	20:21
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	20:21
Cyclohexane	< 10.0	ug/L	8/14/2019	20:21
Dibromochloromethane	< 2.00	ug/L	8/14/2019	20:21
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	20:21
Ethylbenzene	< 2.00	ug/L	8/14/2019	20:21
Freon 113	< 2.00	ug/L	8/14/2019	20:21
Isopropylbenzene	**3.74**	ug/L	8/14/2019	20:21
m,p-Xylene	< 2.00	ug/L	8/14/2019	20:21
Methyl acetate	< 2.00	ug/L	8/14/2019	20:21
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	20:21
Methylcyclohexane	< 2.00	ug/L	8/14/2019	20:21
Methylene chloride	< 5.00	ug/L	8/14/2019	20:21
o-Xylene	< 2.00	ug/L	8/14/2019	20:21
Styrene	< 5.00	ug/L	8/14/2019	20:21
Tetrachloroethene	< 2.00	ug/L	8/14/2019	20:21
Toluene	< 2.00	ug/L	8/14/2019	20:21
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	20:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	20:21
Trichloroethene	< 2.00	ug/L	8/14/2019	20:21
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	20:21
Vinyl chloride	< 2.00	ug/L	8/14/2019	20:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	73.4 - 131		8/14/2019	20:21
4-Bromofluorobenzene	**105**	57.2 - 129		8/14/2019	20:21
Pentafluorobenzene	**93.2**	87 - 112		8/14/2019	20:21
Toluene-D8	**108**	78.3 - 115		8/14/2019	20:21

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63593.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T938
Lab Sample ID: 193715-10 **Date Sampled:** 7/31/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 15:53
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 15:53
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 15:53
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 15:53
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 15:53
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 15:53
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 15:53
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 15:53
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 15:53
1,4-Dioxane	< 20.0	ug/L		8/14/2019 15:53
2-Butanone	< 10.0	ug/L		8/14/2019 15:53
2-Hexanone	< 5.00	ug/L		8/14/2019 15:53
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 15:53
Acetone	< 10.0	ug/L		8/14/2019 15:53
Benzene	< 1.00	ug/L		8/14/2019 15:53
Bromochloromethane	< 5.00	ug/L		8/14/2019 15:53
Bromodichloromethane	< 2.00	ug/L		8/14/2019 15:53
Bromoform	< 5.00	ug/L		8/14/2019 15:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T938
Lab Sample ID: 193715-10 **Date Sampled:** 7/31/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	15:53
Carbon disulfide	< 2.00	ug/L	8/14/2019	15:53
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	15:53
Chlorobenzene	< 2.00	ug/L	8/14/2019	15:53
Chloroethane	< 2.00	ug/L	8/14/2019	15:53
Chloroform	< 2.00	ug/L	8/14/2019	15:53
Chloromethane	< 2.00	ug/L	8/14/2019	15:53
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	15:53
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	15:53
Cyclohexane	< 10.0	ug/L	8/14/2019	15:53
Dibromochloromethane	< 2.00	ug/L	8/14/2019	15:53
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	15:53
Ethylbenzene	< 2.00	ug/L	8/14/2019	15:53
Freon 113	< 2.00	ug/L	8/14/2019	15:53
Isopropylbenzene	< 2.00	ug/L	8/14/2019	15:53
m,p-Xylene	< 2.00	ug/L	8/14/2019	15:53
Methyl acetate	< 2.00	ug/L	8/14/2019	15:53
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	15:53
Methylcyclohexane	< 2.00	ug/L	8/14/2019	15:53
Methylene chloride	< 5.00	ug/L	8/14/2019	15:53
o-Xylene	< 2.00	ug/L	8/14/2019	15:53
Styrene	< 5.00	ug/L	8/14/2019	15:53
Tetrachloroethene	< 2.00	ug/L	8/14/2019	15:53
Toluene	< 2.00	ug/L	8/14/2019	15:53
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	15:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T938
Lab Sample ID: 193715-10 **Date Sampled:** 7/31/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	15:53
Trichloroethene	< 2.00	ug/L	8/14/2019	15:53
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	15:53
Vinyl chloride	< 2.00	ug/L	8/14/2019	15:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	73.4 - 131		8/14/2019	15:53
4-Bromofluorobenzene	**96.1**	57.2 - 129		8/14/2019	15:53
Pentafluorobenzene	**92.1**	87 - 112		8/14/2019	15:53
Toluene-D8	**95.9**	78.3 - 115		8/14/2019	15:53

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63581.D

Report Prepared Friday, August 16, 2019

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.

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 re-perform 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 th 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.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 3

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Same	193715
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP 14614	CITY: STATE: ZIP:		Email: alexandra.zobel@cityofrochester.gov
PHONE:	585-428-7094	PHONE:		
ATTN:	Alexandra Zobel Martino	ATTN:		

PROJECT REFERENCE
1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/1/2019	1505		X	~~MW-8~~ MW-9R	WA	3	X	X		01
	1345		X	MW-15R		3	X	X		02
	1140		X	MW-11		3	X	X		03
	1140		X	MW-11/MS		3	X	X		04
	1140		X	MW-11/MSD		3	X	X		05
	1625		X	MW-16		3	X	X		06 (04)
8/2/2019	1400		X	MW-7R		3	X	X		07 (05)
	1153		X	MW-4		3	X	X		08 (06)
	1545		X	MW-1		3	X	X		09 (07)
	1700		X	MW-3		3	X	X		10 (08)

per history GP 8/5/19 — GP 8/5/19

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

A. Z. Martino — Sampled By — 08/01/2019 - 08/02/2019 — Date/Time — Total Cost:

A. Z. Martino — Relinquished By — 08/02/2019 1845 — Date/Time

Received By — Date/Time — P.I.F.

C. Stitely — 8/2/19 @ 1845 — 5.5 °C

Received @ Lab By — Date/Time

JP2 — 8/5/19 10:22 — per CS GP 8/5/19

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Custody Seal N/A, Samples delivered by client. GP 8/5/19

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Same	193715
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP 14614	CITY:	STATE: ZIP:	
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel Martino	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs									REMARKS	PARADIGM LAB SAMPLE NUMBER
8/2/2019	17[00]		X	Blind Dup		3	X	X										09
7/31/19	—		x	Trip Blank T938	WA	1	x											10
				per sample label GP 8/5/19														

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	X	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

A. Z. Martino — 08/01/2019-08/02/2019
Sampled By — Date/Time — Total Cost:

A. Z. Martino — 08/02/2019 1845
Relinquished By — Date/Time

Received By — Date/Time — P.I.F.

8/2/19 @ 1845
Received @ Lab By — Date/Time

8/5/19 10:22

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 193715 **Date:** 8/5/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	5.5°C 8/2/19 18:45		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		11/8/2019 15:02
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,2,4-Trichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,2-Dichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,3-Dichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,4-Dichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		11/8/2019 15:02
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		11/8/2019 15:02
2,4,5-Trichlorophenol	< 20.3	ug/L		11/8/2019 15:02
2,4,6-Trichlorophenol	< 10.2	ug/L		11/8/2019 15:02
2,4-Dichlorophenol	< 10.2	ug/L		11/8/2019 15:02
2,4-Dimethylphenol	< 20.3	ug/L		11/8/2019 15:02
2,4-Dinitrophenol	< 20.3	ug/L		11/8/2019 15:02
2,4-Dinitrotoluene	< 10.2	ug/L		11/8/2019 15:02
2,6-Dinitrotoluene	< 10.2	ug/L		11/8/2019 15:02
2-Chloronaphthalene	< 10.2	ug/L		11/8/2019 15:02
2-Chlorophenol	< 10.2	ug/L		11/8/2019 15:02
2-Methylnapthalene	< 10.2	ug/L		11/8/2019 15:02
2-Methylphenol	< 10.2	ug/L		11/8/2019 15:02
2-Nitroaniline	< 20.3	ug/L		11/8/2019 15:02
2-Nitrophenol	< 10.2	ug/L		11/8/2019 15:02
3&4-Methylphenol	< 10.2	ug/L		11/8/2019 15:02
3,3'-Dichlorobenzidine	< 10.2	ug/L		11/8/2019 15:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.3	ug/L	11/8/2019	15:02
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	11/8/2019	15:02
4-Bromophenyl phenyl ether	< 10.2	ug/L	11/8/2019	15:02
4-Chloro-3-methylphenol	< 10.2	ug/L	11/8/2019	15:02
4-Chloroaniline	< 10.2	ug/L	11/8/2019	15:02
4-Chlorophenyl phenyl ether	< 10.2	ug/L	11/8/2019	15:02
4-Nitroaniline	< 20.3	ug/L	11/8/2019	15:02
4-Nitrophenol	< 20.3	ug/L	11/8/2019	15:02
Acenaphthene	< 10.2	ug/L	11/8/2019	15:02
Acenaphthylene	< 10.2	ug/L	11/8/2019	15:02
Acetophenone	< 10.2	ug/L	11/8/2019	15:02
Anthracene	< 10.2	ug/L	11/8/2019	15:02
Atrazine	< 10.2	ug/L	11/8/2019	15:02
Benzaldehyde	< 10.2	ug/L	11/8/2019	15:02
Benzo (a) anthracene	< 10.2	ug/L	11/8/2019	15:02
Benzo (a) pyrene	< 10.2	ug/L	11/8/2019	15:02
Benzo (b) fluoranthene	< 10.2	ug/L	11/8/2019	15:02
Benzo (g,h,i) perylene	< 10.2	ug/L	11/8/2019	15:02
Benzo (k) fluoranthene	< 10.2	ug/L	11/8/2019	15:02
Bis (2-chloroethoxy) methane	< 10.2	ug/L	11/8/2019	15:02
Bis (2-chloroethyl) ether	< 10.2	ug/L	11/8/2019	15:02
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	11/8/2019	15:02
Butylbenzylphthalate	< 10.2	ug/L	11/8/2019	15:02
Caprolactam	< 10.2	ug/L	11/8/2019	15:02
Carbazole	< 10.2	ug/L	11/8/2019	15:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.2	ug/L	11/8/2019	15:02
Dibenz (a,h) anthracene	< 10.2	ug/L	11/8/2019	15:02
Dibenzofuran	< 10.2	ug/L	11/8/2019	15:02
Diethyl phthalate	< 10.2	ug/L	11/8/2019	15:02
Dimethyl phthalate	< 20.3	ug/L	11/8/2019	15:02
Di-n-butyl phthalate	< 10.2	ug/L	11/8/2019	15:02
Di-n-octylphthalate	< 10.2	ug/L	11/8/2019	15:02
Fluoranthene	< 10.2	ug/L	11/8/2019	15:02
Fluorene	< 10.2	ug/L	11/8/2019	15:02
Hexachlorobenzene	< 10.2	ug/L	11/8/2019	15:02
Hexachlorobutadiene	< 10.2	ug/L	11/8/2019	15:02
Hexachlorocyclopentadiene	< 10.2	ug/L	11/8/2019	15:02
Hexachloroethane	< 10.2	ug/L	11/8/2019	15:02
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	11/8/2019	15:02
Isophorone	< 10.2	ug/L	11/8/2019	15:02
Naphthalene	< 10.2	ug/L	11/8/2019	15:02
Nitrobenzene	< 10.2	ug/L	11/8/2019	15:02
N-Nitroso-di-n-propylamine	< 10.2	ug/L	11/8/2019	15:02
N-Nitrosodiphenylamine	< 10.2	ug/L	11/8/2019	15:02
Pentachlorophenol	< 20.3	ug/L	11/8/2019	15:02
Phenanthrene	< 10.2	ug/L	11/8/2019	15:02
Phenol	< 10.2	ug/L	11/8/2019	15:02
Pyrene	< 10.2	ug/L	11/8/2019	15:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.8**	56 - 117		11/8/2019	15:02
2-Fluorobiphenyl	**74.2**	36.3 - 95.4		11/8/2019	15:02
2-Fluorophenol	**43.2**	16.1 - 103		11/8/2019	15:02
Nitrobenzene-d5	**82.2**	52.1 - 98.9		11/8/2019	15:02
Phenol-d5	**28.6**	10 - 105		11/8/2019	15:02
Terphenyl-d14	**89.7**	59.6 - 112		11/8/2019	15:02

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42162.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 14:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 14:14
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 14:14
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:14
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,2-Dichloropropane	< 2.00	ug/L	M	11/15/2019 14:14
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:14
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:14
1,4-Dioxane	< 20.0	ug/L		11/15/2019 14:14
2-Butanone	< 10.0	ug/L		11/15/2019 14:14
2-Hexanone	< 5.00	ug/L		11/15/2019 14:14
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 14:14
Acetone	< 10.0	ug/L		11/15/2019 14:14
Benzene	**0.912**	ug/L	J	11/15/2019 14:14
Bromochloromethane	< 5.00	ug/L		11/15/2019 14:14
Bromodichloromethane	< 2.00	ug/L		11/15/2019 14:14
Bromoform	< 5.00	ug/L		11/15/2019 14:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	14:14
Carbon disulfide	< 2.00	ug/L		11/15/2019	14:14
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	14:14
Chlorobenzene	< 2.00	ug/L		11/15/2019	14:14
Chloroethane	< 2.00	ug/L		11/15/2019	14:14
Chloroform	< 2.00	ug/L		11/15/2019	14:14
Chloromethane	< 2.00	ug/L		11/15/2019	14:14
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:14
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	14:14
Cyclohexane	< 10.0	ug/L		11/15/2019	14:14
Dibromochloromethane	< 2.00	ug/L	M	11/15/2019	14:14
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	14:14
Ethylbenzene	**10.2**	ug/L		11/15/2019	14:14
Freon 113	< 2.00	ug/L		11/15/2019	14:14
Isopropylbenzene	< 2.00	ug/L		11/15/2019	14:14
m,p-Xylene	**6.27**	ug/L		11/15/2019	14:14
Methyl acetate	< 2.00	ug/L		11/15/2019	14:14
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	14:14
Methylcyclohexane	< 2.00	ug/L		11/15/2019	14:14
Methylene chloride	< 5.00	ug/L		11/15/2019	14:14
o-Xylene	< 2.00	ug/L		11/15/2019	14:14
Styrene	< 5.00	ug/L		11/15/2019	14:14
Tetrachloroethene	< 2.00	ug/L		11/15/2019	14:14
Toluene	< 2.00	ug/L		11/15/2019	14:14
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:14
Trichloroethene	< 2.00	ug/L	11/15/2019	14:14
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	14:14
Vinyl chloride	< 2.00	ug/L	11/15/2019	14:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	70.5 - 135		11/15/2019	14:14
4-Bromofluorobenzene	**103**	62 - 127		11/15/2019	14:14
Pentafluorobenzene	**93.9**	87 - 113		11/15/2019	14:14
Toluene-D8	**90.7**	80.8 - 115		11/15/2019	14:14

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66314.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		11/8/2019 16:30
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,2,4-Trichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,2-Dichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,3-Dichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,4-Dichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		11/8/2019 16:30
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		11/8/2019 16:30
2,4,5-Trichlorophenol	< 20.1	ug/L		11/8/2019 16:30
2,4,6-Trichlorophenol	< 10.1	ug/L		11/8/2019 16:30
2,4-Dichlorophenol	< 10.1	ug/L		11/8/2019 16:30
2,4-Dimethylphenol	< 20.1	ug/L		11/8/2019 16:30
2,4-Dinitrophenol	< 20.1	ug/L		11/8/2019 16:30
2,4-Dinitrotoluene	< 10.1	ug/L		11/8/2019 16:30
2,6-Dinitrotoluene	< 10.1	ug/L		11/8/2019 16:30
2-Chloronaphthalene	< 10.1	ug/L		11/8/2019 16:30
2-Chlorophenol	< 10.1	ug/L		11/8/2019 16:30
2-Methylnapthalene	< 10.1	ug/L		11/8/2019 16:30
2-Methylphenol	< 10.1	ug/L		11/8/2019 16:30
2-Nitroaniline	< 20.1	ug/L		11/8/2019 16:30
2-Nitrophenol	< 10.1	ug/L		11/8/2019 16:30
3&4-Methylphenol	< 10.1	ug/L		11/8/2019 16:30
3,3'-Dichlorobenzidine	< 10.1	ug/L		11/8/2019 16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.1	ug/L	11/8/2019	16:30
4,6-Dinitro-2-methylphenol	< 20.1	ug/L	11/8/2019	16:30
4-Bromophenyl phenyl ether	< 10.1	ug/L	11/8/2019	16:30
4-Chloro-3-methylphenol	< 10.1	ug/L	11/8/2019	16:30
4-Chloroaniline	< 10.1	ug/L	11/8/2019	16:30
4-Chlorophenyl phenyl ether	< 10.1	ug/L	11/8/2019	16:30
4-Nitroaniline	< 20.1	ug/L	11/8/2019	16:30
4-Nitrophenol	< 20.1	ug/L	11/8/2019	16:30
Acenaphthene	< 10.1	ug/L	11/8/2019	16:30
Acenaphthylene	< 10.1	ug/L	11/8/2019	16:30
Acetophenone	< 10.1	ug/L	11/8/2019	16:30
Anthracene	< 10.1	ug/L	11/8/2019	16:30
Atrazine	< 10.1	ug/L	11/8/2019	16:30
Benzaldehyde	< 10.1	ug/L	11/8/2019	16:30
Benzo (a) anthracene	< 10.1	ug/L	11/8/2019	16:30
Benzo (a) pyrene	< 10.1	ug/L	11/8/2019	16:30
Benzo (b) fluoranthene	< 10.1	ug/L	11/8/2019	16:30
Benzo (g,h,i) perylene	< 10.1	ug/L	11/8/2019	16:30
Benzo (k) fluoranthene	< 10.1	ug/L	11/8/2019	16:30
Bis (2-chloroethoxy) methane	< 10.1	ug/L	11/8/2019	16:30
Bis (2-chloroethyl) ether	< 10.1	ug/L	11/8/2019	16:30
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	11/8/2019	16:30
Butylbenzylphthalate	< 10.1	ug/L	11/8/2019	16:30
Caprolactam	< 10.1	ug/L	11/8/2019	16:30
Carbazole	< 10.1	ug/L	11/8/2019	16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.1	ug/L	11/8/2019	16:30
Dibenz (a,h) anthracene	< 10.1	ug/L	11/8/2019	16:30
Dibenzofuran	< 10.1	ug/L	11/8/2019	16:30
Diethyl phthalate	< 10.1	ug/L	11/8/2019	16:30
Dimethyl phthalate	< 20.1	ug/L	11/8/2019	16:30
Di-n-butyl phthalate	< 10.1	ug/L	11/8/2019	16:30
Di-n-octylphthalate	< 10.1	ug/L	11/8/2019	16:30
Fluoranthene	< 10.1	ug/L	11/8/2019	16:30
Fluorene	< 10.1	ug/L	11/8/2019	16:30
Hexachlorobenzene	< 10.1	ug/L	11/8/2019	16:30
Hexachlorobutadiene	< 10.1	ug/L	11/8/2019	16:30
Hexachlorocyclopentadiene	< 10.1	ug/L	11/8/2019	16:30
Hexachloroethane	< 10.1	ug/L	11/8/2019	16:30
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	11/8/2019	16:30
Isophorone	< 10.1	ug/L	11/8/2019	16:30
Naphthalene	< 10.1	ug/L	11/8/2019	16:30
Nitrobenzene	< 10.1	ug/L	11/8/2019	16:30
N-Nitroso-di-n-propylamine	< 10.1	ug/L	11/8/2019	16:30
N-Nitrosodiphenylamine	< 10.1	ug/L	11/8/2019	16:30
Pentachlorophenol	< 20.1	ug/L	11/8/2019	16:30
Phenanthrene	< 10.1	ug/L	11/8/2019	16:30
Phenol	< 10.1	ug/L	11/8/2019	16:30
Pyrene	< 10.1	ug/L	11/8/2019	16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**97.9**	56 - 117		11/8/2019	16:30
2-Fluorobiphenyl	**77.4**	36.3 - 95.4		11/8/2019	16:30
2-Fluorophenol	**44.7**	16.1 - 103		11/8/2019	16:30
Nitrobenzene-d5	**86.0**	52.1 - 98.9		11/8/2019	16:30
Phenol-d5	**29.2**	10 - 105		11/8/2019	16:30
Terphenyl-d14	**98.5**	59.6 - 112		11/8/2019	16:30

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42165.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 14:36
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:36
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 14:36
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 14:36
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:36
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 14:36
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:36
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:36
1,4-Dioxane	< 20.0	ug/L		11/15/2019 14:36
2-Butanone	< 10.0	ug/L		11/15/2019 14:36
2-Hexanone	< 5.00	ug/L		11/15/2019 14:36
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 14:36
Acetone	< 10.0	ug/L		11/15/2019 14:36
Benzene	**3.11**	ug/L		11/15/2019 14:36
Bromochloromethane	< 5.00	ug/L		11/15/2019 14:36
Bromodichloromethane	< 2.00	ug/L		11/15/2019 14:36
Bromoform	< 5.00	ug/L		11/15/2019 14:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	14:36
Carbon disulfide	< 2.00	ug/L		11/15/2019	14:36
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	14:36
Chlorobenzene	< 2.00	ug/L		11/15/2019	14:36
Chloroethane	< 2.00	ug/L		11/15/2019	14:36
Chloroform	< 2.00	ug/L		11/15/2019	14:36
Chloromethane	< 2.00	ug/L		11/15/2019	14:36
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:36
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	14:36
Cyclohexane	< 10.0	ug/L		11/15/2019	14:36
Dibromochloromethane	< 2.00	ug/L		11/15/2019	14:36
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	14:36
Ethylbenzene	**7.55**	ug/L		11/15/2019	14:36
Freon 113	< 2.00	ug/L		11/15/2019	14:36
Isopropylbenzene	**1.33**	ug/L	J	11/15/2019	14:36
m,p-Xylene	< 2.00	ug/L		11/15/2019	14:36
Methyl acetate	< 2.00	ug/L		11/15/2019	14:36
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	14:36
Methylcyclohexane	< 2.00	ug/L		11/15/2019	14:36
Methylene chloride	< 5.00	ug/L		11/15/2019	14:36
o-Xylene	< 2.00	ug/L		11/15/2019	14:36
Styrene	< 5.00	ug/L		11/15/2019	14:36
Tetrachloroethene	< 2.00	ug/L		11/15/2019	14:36
Toluene	< 2.00	ug/L		11/15/2019	14:36
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:36
Trichloroethene	< 2.00	ug/L	11/15/2019	14:36
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	14:36
Vinyl chloride	< 2.00	ug/L	11/15/2019	14:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**112**	70.5 - 135		11/15/2019	14:36
4-Bromofluorobenzene	**97.0**	62 - 127		11/15/2019	14:36
Pentafluorobenzene	**88.0**	87 - 113		11/15/2019	14:36
Toluene-D8	**97.3**	80.8 - 115		11/15/2019	14:36

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66315.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		11/8/2019 16:59
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,2,4-Trichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,2-Dichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,3-Dichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,4-Dichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		11/8/2019 16:59
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		11/8/2019 16:59
2,4,5-Trichlorophenol	< 20.3	ug/L		11/8/2019 16:59
2,4,6-Trichlorophenol	< 10.2	ug/L		11/8/2019 16:59
2,4-Dichlorophenol	< 10.2	ug/L		11/8/2019 16:59
2,4-Dimethylphenol	< 20.3	ug/L		11/8/2019 16:59
2,4-Dinitrophenol	< 20.3	ug/L		11/8/2019 16:59
2,4-Dinitrotoluene	< 10.2	ug/L		11/8/2019 16:59
2,6-Dinitrotoluene	< 10.2	ug/L		11/8/2019 16:59
2-Chloronaphthalene	< 10.2	ug/L		11/8/2019 16:59
2-Chlorophenol	< 10.2	ug/L		11/8/2019 16:59
2-Methylnapthalene	< 10.2	ug/L		11/8/2019 16:59
2-Methylphenol	< 10.2	ug/L		11/8/2019 16:59
2-Nitroaniline	< 20.3	ug/L		11/8/2019 16:59
2-Nitrophenol	< 10.2	ug/L		11/8/2019 16:59
3&4-Methylphenol	< 10.2	ug/L		11/8/2019 16:59
3,3'-Dichlorobenzidine	< 10.2	ug/L		11/8/2019 16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.3	ug/L	11/8/2019	16:59
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	11/8/2019	16:59
4-Bromophenyl phenyl ether	< 10.2	ug/L	11/8/2019	16:59
4-Chloro-3-methylphenol	< 10.2	ug/L	11/8/2019	16:59
4-Chloroaniline	< 10.2	ug/L	11/8/2019	16:59
4-Chlorophenyl phenyl ether	< 10.2	ug/L	11/8/2019	16:59
4-Nitroaniline	< 20.3	ug/L	11/8/2019	16:59
4-Nitrophenol	< 20.3	ug/L	11/8/2019	16:59
Acenaphthene	< 10.2	ug/L	11/8/2019	16:59
Acenaphthylene	< 10.2	ug/L	11/8/2019	16:59
Acetophenone	< 10.2	ug/L	11/8/2019	16:59
Anthracene	< 10.2	ug/L	11/8/2019	16:59
Atrazine	< 10.2	ug/L	11/8/2019	16:59
Benzaldehyde	< 10.2	ug/L	11/8/2019	16:59
Benzo (a) anthracene	< 10.2	ug/L	11/8/2019	16:59
Benzo (a) pyrene	< 10.2	ug/L	11/8/2019	16:59
Benzo (b) fluoranthene	< 10.2	ug/L	11/8/2019	16:59
Benzo (g,h,i) perylene	< 10.2	ug/L	11/8/2019	16:59
Benzo (k) fluoranthene	< 10.2	ug/L	11/8/2019	16:59
Bis (2-chloroethoxy) methane	< 10.2	ug/L	11/8/2019	16:59
Bis (2-chloroethyl) ether	< 10.2	ug/L	11/8/2019	16:59
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	11/8/2019	16:59
Butylbenzylphthalate	< 10.2	ug/L	11/8/2019	16:59
Caprolactam	< 10.2	ug/L	11/8/2019	16:59
Carbazole	< 10.2	ug/L	11/8/2019	16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.2	ug/L	11/8/2019	16:59
Dibenz (a,h) anthracene	< 10.2	ug/L	11/8/2019	16:59
Dibenzofuran	< 10.2	ug/L	11/8/2019	16:59
Diethyl phthalate	< 10.2	ug/L	11/8/2019	16:59
Dimethyl phthalate	< 20.3	ug/L	11/8/2019	16:59
Di-n-butyl phthalate	< 10.2	ug/L	11/8/2019	16:59
Di-n-octylphthalate	< 10.2	ug/L	11/8/2019	16:59
Fluoranthene	< 10.2	ug/L	11/8/2019	16:59
Fluorene	< 10.2	ug/L	11/8/2019	16:59
Hexachlorobenzene	< 10.2	ug/L	11/8/2019	16:59
Hexachlorobutadiene	< 10.2	ug/L	11/8/2019	16:59
Hexachlorocyclopentadiene	< 10.2	ug/L	11/8/2019	16:59
Hexachloroethane	< 10.2	ug/L	11/8/2019	16:59
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	11/8/2019	16:59
Isophorone	< 10.2	ug/L	11/8/2019	16:59
Naphthalene	< 10.2	ug/L	11/8/2019	16:59
Nitrobenzene	< 10.2	ug/L	11/8/2019	16:59
N-Nitroso-di-n-propylamine	< 10.2	ug/L	11/8/2019	16:59
N-Nitrosodiphenylamine	< 10.2	ug/L	11/8/2019	16:59
Pentachlorophenol	< 20.3	ug/L	11/8/2019	16:59
Phenanthrene	< 10.2	ug/L	11/8/2019	16:59
Phenol	< 10.2	ug/L	11/8/2019	16:59
Pyrene	< 10.2	ug/L	11/8/2019	16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.3**	56 - 117		11/8/2019	16:59
2-Fluorobiphenyl	**61.8**	36.3 - 95.4		11/8/2019	16:59
2-Fluorophenol	**42.6**	16.1 - 103		11/8/2019	16:59
Nitrobenzene-d5	**79.2**	52.1 - 98.9		11/8/2019	16:59
Phenol-d5	**29.1**	10 - 105		11/8/2019	16:59
Terphenyl-d14	**86.4**	59.6 - 112		11/8/2019	16:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42166.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 14:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 14:59
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 14:59
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:59
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 14:59
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:59
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:59
1,4-Dioxane	< 20.0	ug/L		11/15/2019 14:59
2-Butanone	< 10.0	ug/L		11/15/2019 14:59
2-Hexanone	< 5.00	ug/L		11/15/2019 14:59
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 14:59
Acetone	< 10.0	ug/L		11/15/2019 14:59
Benzene	< 1.00	ug/L		11/15/2019 14:59
Bromochloromethane	< 5.00	ug/L		11/15/2019 14:59
Bromodichloromethane	< 2.00	ug/L		11/15/2019 14:59
Bromoform	< 5.00	ug/L		11/15/2019 14:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	14:59
Carbon disulfide	< 2.00	ug/L	11/15/2019	14:59
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	14:59
Chlorobenzene	< 2.00	ug/L	11/15/2019	14:59
Chloroethane	< 2.00	ug/L	11/15/2019	14:59
Chloroform	< 2.00	ug/L	11/15/2019	14:59
Chloromethane	< 2.00	ug/L	11/15/2019	14:59
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	14:59
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:59
Cyclohexane	< 10.0	ug/L	11/15/2019	14:59
Dibromochloromethane	< 2.00	ug/L	11/15/2019	14:59
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	14:59
Ethylbenzene	< 2.00	ug/L	11/15/2019	14:59
Freon 113	< 2.00	ug/L	11/15/2019	14:59
Isopropylbenzene	< 2.00	ug/L	11/15/2019	14:59
m,p-Xylene	< 2.00	ug/L	11/15/2019	14:59
Methyl acetate	< 2.00	ug/L	11/15/2019	14:59
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	14:59
Methylcyclohexane	< 2.00	ug/L	11/15/2019	14:59
Methylene chloride	< 5.00	ug/L	11/15/2019	14:59
o-Xylene	< 2.00	ug/L	11/15/2019	14:59
Styrene	< 5.00	ug/L	11/15/2019	14:59
Tetrachloroethene	< 2.00	ug/L	11/15/2019	14:59
Toluene	< 2.00	ug/L	11/15/2019	14:59
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	14:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:59
Trichloroethene	< 2.00	ug/L	11/15/2019	14:59
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	14:59
Vinyl chloride	< 2.00	ug/L	11/15/2019	14:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**115**	70.5 - 135		11/15/2019	14:59
4-Bromofluorobenzene	**87.9**	62 - 127		11/15/2019	14:59
Pentafluorobenzene	**101**	87 - 113		11/15/2019	14:59
Toluene-D8	**93.4**	80.8 - 115		11/15/2019	14:59

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66316.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 17:28
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 17:28
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 17:28
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 17:28
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 17:28
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 17:28
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 17:28
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 17:28
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:28
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:28
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 17:28
2-Chlorophenol	< 10.0	ug/L		11/8/2019 17:28
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 17:28
2-Methylphenol	< 10.0	ug/L		11/8/2019 17:28
2-Nitroaniline	< 20.0	ug/L		11/8/2019 17:28
2-Nitrophenol	< 10.0	ug/L		11/8/2019 17:28
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 17:28
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 17:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	17:28
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	17:28
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:28
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	17:28
4-Chloroaniline	< 10.0	ug/L	11/8/2019	17:28
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:28
4-Nitroaniline	< 20.0	ug/L	11/8/2019	17:28
4-Nitrophenol	< 20.0	ug/L	11/8/2019	17:28
Acenaphthene	< 10.0	ug/L	11/8/2019	17:28
Acenaphthylene	< 10.0	ug/L	11/8/2019	17:28
Acetophenone	< 10.0	ug/L	11/8/2019	17:28
Anthracene	< 10.0	ug/L	11/8/2019	17:28
Atrazine	< 10.0	ug/L	11/8/2019	17:28
Benzaldehyde	< 10.0	ug/L	11/8/2019	17:28
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	17:28
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	17:28
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	17:28
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	17:28
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	17:28
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	17:28
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	17:28
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	17:28
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	17:28
Caprolactam	< 10.0	ug/L	11/8/2019	17:28
Carbazole	< 10.0	ug/L	11/8/2019	17:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	17:28
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	17:28
Dibenzofuran	< 10.0	ug/L	11/8/2019	17:28
Diethyl phthalate	< 10.0	ug/L	11/8/2019	17:28
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	17:28
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	17:28
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	17:28
Fluoranthene	< 10.0	ug/L	11/8/2019	17:28
Fluorene	< 10.0	ug/L	11/8/2019	17:28
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	17:28
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	17:28
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	17:28
Hexachloroethane	< 10.0	ug/L	11/8/2019	17:28
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	17:28
Isophorone	< 10.0	ug/L	11/8/2019	17:28
Naphthalene	< 10.0	ug/L	11/8/2019	17:28
Nitrobenzene	< 10.0	ug/L	11/8/2019	17:28
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	17:28
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	17:28
Pentachlorophenol	< 20.0	ug/L	11/8/2019	17:28
Phenanthrene	< 10.0	ug/L	11/8/2019	17:28
Phenol	< 10.0	ug/L	11/8/2019	17:28
Pyrene	< 10.0	ug/L	11/8/2019	17:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.0**	56 - 117		11/8/2019	17:28
2-Fluorobiphenyl	**57.0**	36.3 - 95.4		11/8/2019	17:28
2-Fluorophenol	**40.7**	16.1 - 103		11/8/2019	17:28
Nitrobenzene-d5	**70.6**	52.1 - 98.9		11/8/2019	17:28
Phenol-d5	**26.9**	10 - 105		11/8/2019	17:28
Terphenyl-d14	**85.9**	59.6 - 112		11/8/2019	17:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42167.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 15:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 15:21
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 15:21
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:21
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 15:21
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:21
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:21
1,4-Dioxane	< 20.0	ug/L		11/15/2019 15:21
2-Butanone	< 10.0	ug/L		11/15/2019 15:21
2-Hexanone	< 5.00	ug/L		11/15/2019 15:21
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 15:21
Acetone	< 10.0	ug/L		11/15/2019 15:21
Benzene	**4.28**	ug/L		11/15/2019 15:21
Bromochloromethane	< 5.00	ug/L		11/15/2019 15:21
Bromodichloromethane	< 2.00	ug/L		11/15/2019 15:21
Bromoform	< 5.00	ug/L		11/15/2019 15:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	15:21
Carbon disulfide	< 2.00	ug/L	11/15/2019	15:21
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	15:21
Chlorobenzene	< 2.00	ug/L	11/15/2019	15:21
Chloroethane	< 2.00	ug/L	11/15/2019	15:21
Chloroform	< 2.00	ug/L	11/15/2019	15:21
Chloromethane	< 2.00	ug/L	11/15/2019	15:21
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	15:21
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	15:21
Cyclohexane	**39.0**	ug/L	11/15/2019	15:21
Dibromochloromethane	< 2.00	ug/L	11/15/2019	15:21
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	15:21
Ethylbenzene	**14.0**	ug/L	11/15/2019	15:21
Freon 113	< 2.00	ug/L	11/15/2019	15:21
Isopropylbenzene	**4.20**	ug/L	11/15/2019	15:21
m,p-Xylene	**10.1**	ug/L	11/15/2019	15:21
Methyl acetate	< 2.00	ug/L	11/15/2019	15:21
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	15:21
Methylcyclohexane	**12.0**	ug/L	11/15/2019	15:21
Methylene chloride	< 5.00	ug/L	11/15/2019	15:21
o-Xylene	**3.86**	ug/L	11/15/2019	15:21
Styrene	< 5.00	ug/L	11/15/2019	15:21
Tetrachloroethene	< 2.00	ug/L	11/15/2019	15:21
Toluene	< 2.00	ug/L	11/15/2019	15:21
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	15:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	15:21
Trichloroethene	< 2.00	ug/L	11/15/2019	15:21
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	15:21
Vinyl chloride	< 2.00	ug/L	11/15/2019	15:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	70.5 - 135		11/15/2019	15:21
4-Bromofluorobenzene	**101**	62 - 127		11/15/2019	15:21
Pentafluorobenzene	**94.4**	87 - 113		11/15/2019	15:21
Toluene-D8	**104**	80.8 - 115		11/15/2019	15:21

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66317.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 17:58
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 17:58
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 17:58
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 17:58
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 17:58
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 17:58
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 17:58
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 17:58
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:58
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:58
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 17:58
2-Chlorophenol	< 10.0	ug/L		11/8/2019 17:58
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 17:58
2-Methylphenol	< 10.0	ug/L		11/8/2019 17:58
2-Nitroaniline	< 20.0	ug/L		11/8/2019 17:58
2-Nitrophenol	< 10.0	ug/L		11/8/2019 17:58
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 17:58
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	17:58
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	17:58
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:58
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	17:58
4-Chloroaniline	< 10.0	ug/L	11/8/2019	17:58
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:58
4-Nitroaniline	< 20.0	ug/L	11/8/2019	17:58
4-Nitrophenol	< 20.0	ug/L	11/8/2019	17:58
Acenaphthene	< 10.0	ug/L	11/8/2019	17:58
Acenaphthylene	< 10.0	ug/L	11/8/2019	17:58
Acetophenone	< 10.0	ug/L	11/8/2019	17:58
Anthracene	< 10.0	ug/L	11/8/2019	17:58
Atrazine	< 10.0	ug/L	11/8/2019	17:58
Benzaldehyde	< 10.0	ug/L	11/8/2019	17:58
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	17:58
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	17:58
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	17:58
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	17:58
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	17:58
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	17:58
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	17:58
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	17:58
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	17:58
Caprolactam	< 10.0	ug/L	11/8/2019	17:58
Carbazole	< 10.0	ug/L	11/8/2019	17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	17:58
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	17:58
Dibenzofuran	< 10.0	ug/L	11/8/2019	17:58
Diethyl phthalate	< 10.0	ug/L	11/8/2019	17:58
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	17:58
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	17:58
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	17:58
Fluoranthene	< 10.0	ug/L	11/8/2019	17:58
Fluorene	< 10.0	ug/L	11/8/2019	17:58
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	17:58
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	17:58
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	17:58
Hexachloroethane	< 10.0	ug/L	11/8/2019	17:58
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	17:58
Isophorone	< 10.0	ug/L	11/8/2019	17:58
Naphthalene	< 10.0	ug/L	11/8/2019	17:58
Nitrobenzene	< 10.0	ug/L	11/8/2019	17:58
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	17:58
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	17:58
Pentachlorophenol	< 20.0	ug/L	11/8/2019	17:58
Phenanthrene	< 10.0	ug/L	11/8/2019	17:58
Phenol	< 10.0	ug/L	11/8/2019	17:58
Pyrene	< 10.0	ug/L	11/8/2019	17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**66.9**	56 - 117		11/8/2019 17:58
2-Fluorobiphenyl	**55.8**	36.3 - 95.4		11/8/2019 17:58
2-Fluorophenol	**33.4**	16.1 - 103		11/8/2019 17:58
Nitrobenzene-d5	**71.3**	52.1 - 98.9		11/8/2019 17:58
Phenol-d5	**24.8**	10 - 105		11/8/2019 17:58
Terphenyl-d14	**84.3**	59.6 - 112		11/8/2019 17:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42168.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 15:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 15:44
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 15:44
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:44
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 15:44
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:44
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:44
1,4-Dioxane	< 20.0	ug/L		11/15/2019 15:44
2-Butanone	< 10.0	ug/L		11/15/2019 15:44
2-Hexanone	< 5.00	ug/L		11/15/2019 15:44
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 15:44
Acetone	< 10.0	ug/L		11/15/2019 15:44
Benzene	**6.85**	ug/L		11/15/2019 15:44
Bromochloromethane	< 5.00	ug/L		11/15/2019 15:44
Bromodichloromethane	< 2.00	ug/L		11/15/2019 15:44
Bromoform	< 5.00	ug/L		11/15/2019 15:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	15:44
Carbon disulfide	< 2.00	ug/L		11/15/2019	15:44
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	15:44
Chlorobenzene	< 2.00	ug/L		11/15/2019	15:44
Chloroethane	< 2.00	ug/L		11/15/2019	15:44
Chloroform	< 2.00	ug/L		11/15/2019	15:44
Chloromethane	< 2.00	ug/L		11/15/2019	15:44
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	15:44
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	15:44
Cyclohexane	< 10.0	ug/L		11/15/2019	15:44
Dibromochloromethane	< 2.00	ug/L		11/15/2019	15:44
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	15:44
Ethylbenzene	**3.15**	ug/L		11/15/2019	15:44
Freon 113	< 2.00	ug/L		11/15/2019	15:44
Isopropylbenzene	**5.74**	ug/L		11/15/2019	15:44
m,p-Xylene	**2.59**	ug/L		11/15/2019	15:44
Methyl acetate	< 2.00	ug/L		11/15/2019	15:44
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	15:44
Methylcyclohexane	**11.7**	ug/L		11/15/2019	15:44
Methylene chloride	< 5.00	ug/L		11/15/2019	15:44
o-Xylene	< 2.00	ug/L		11/15/2019	15:44
Styrene	< 5.00	ug/L		11/15/2019	15:44
Tetrachloroethene	< 2.00	ug/L		11/15/2019	15:44
Toluene	**1.14**	ug/L	J	11/15/2019	15:44
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	15:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	15:44
Trichloroethene	< 2.00	ug/L	11/15/2019	15:44
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	15:44
Vinyl chloride	< 2.00	ug/L	11/15/2019	15:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.8**	70.5 - 135		11/15/2019	15:44
4-Bromofluorobenzene	**106**	62 - 127		11/15/2019	15:44
Pentafluorobenzene	**94.1**	87 - 113		11/15/2019	15:44
Toluene-D8	**105**	80.8 - 115		11/15/2019	15:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66318.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 18:27
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 18:27
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 18:27
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 18:27
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 18:27
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 18:27
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 18:27
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 18:27
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:27
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:27
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 18:27
2-Chlorophenol	< 10.0	ug/L		11/8/2019 18:27
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 18:27
2-Methylphenol	< 10.0	ug/L		11/8/2019 18:27
2-Nitroaniline	< 20.0	ug/L		11/8/2019 18:27
2-Nitrophenol	< 10.0	ug/L		11/8/2019 18:27
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 18:27
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	18:27
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	18:27
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:27
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	18:27
4-Chloroaniline	< 10.0	ug/L	11/8/2019	18:27
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:27
4-Nitroaniline	< 20.0	ug/L	11/8/2019	18:27
4-Nitrophenol	< 20.0	ug/L	11/8/2019	18:27
Acenaphthene	< 10.0	ug/L	11/8/2019	18:27
Acenaphthylene	< 10.0	ug/L	11/8/2019	18:27
Acetophenone	< 10.0	ug/L	11/8/2019	18:27
Anthracene	< 10.0	ug/L	11/8/2019	18:27
Atrazine	< 10.0	ug/L	11/8/2019	18:27
Benzaldehyde	< 10.0	ug/L	11/8/2019	18:27
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	18:27
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	18:27
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	18:27
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	18:27
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	18:27
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	18:27
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	18:27
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	18:27
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	18:27
Caprolactam	< 10.0	ug/L	11/8/2019	18:27
Carbazole	< 10.0	ug/L	11/8/2019	18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	18:27
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	18:27
Dibenzofuran	< 10.0	ug/L	11/8/2019	18:27
Diethyl phthalate	< 10.0	ug/L	11/8/2019	18:27
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	18:27
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	18:27
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	18:27
Fluoranthene	< 10.0	ug/L	11/8/2019	18:27
Fluorene	< 10.0	ug/L	11/8/2019	18:27
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	18:27
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	18:27
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	18:27
Hexachloroethane	< 10.0	ug/L	11/8/2019	18:27
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	18:27
Isophorone	< 10.0	ug/L	11/8/2019	18:27
Naphthalene	< 10.0	ug/L	11/8/2019	18:27
Nitrobenzene	< 10.0	ug/L	11/8/2019	18:27
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	18:27
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	18:27
Pentachlorophenol	< 20.0	ug/L	11/8/2019	18:27
Phenanthrene	< 10.0	ug/L	11/8/2019	18:27
Phenol	< 10.0	ug/L	11/8/2019	18:27
Pyrene	< 10.0	ug/L	11/8/2019	18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**82.5**	56 - 117		11/8/2019	18:27
2-Fluorobiphenyl	**55.2**	36.3 - 95.4		11/8/2019	18:27
2-Fluorophenol	**34.0**	16.1 - 103		11/8/2019	18:27
Nitrobenzene-d5	**66.2**	52.1 - 98.9		11/8/2019	18:27
Phenol-d5	**23.6**	10 - 105		11/8/2019	18:27
Terphenyl-d14	**86.1**	59.6 - 112		11/8/2019	18:27

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42169.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 16:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 16:07
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 16:07
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:07
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 16:07
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:07
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:07
1,4-Dioxane	< 20.0	ug/L		11/15/2019 16:07
2-Butanone	< 10.0	ug/L		11/15/2019 16:07
2-Hexanone	< 5.00	ug/L		11/15/2019 16:07
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 16:07
Acetone	< 10.0	ug/L		11/15/2019 16:07
Benzene	**7.86**	ug/L		11/15/2019 16:07
Bromochloromethane	< 5.00	ug/L		11/15/2019 16:07
Bromodichloromethane	< 2.00	ug/L		11/15/2019 16:07
Bromoform	< 5.00	ug/L		11/15/2019 16:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	16:07
Carbon disulfide	< 2.00	ug/L		11/15/2019	16:07
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	16:07
Chlorobenzene	< 2.00	ug/L		11/15/2019	16:07
Chloroethane	< 2.00	ug/L		11/15/2019	16:07
Chloroform	< 2.00	ug/L		11/15/2019	16:07
Chloromethane	< 2.00	ug/L		11/15/2019	16:07
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	16:07
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	16:07
Cyclohexane	< 10.0	ug/L		11/15/2019	16:07
Dibromochloromethane	< 2.00	ug/L		11/15/2019	16:07
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	16:07
Ethylbenzene	**3.55**	ug/L		11/15/2019	16:07
Freon 113	< 2.00	ug/L		11/15/2019	16:07
Isopropylbenzene	**7.53**	ug/L		11/15/2019	16:07
m,p-Xylene	**2.92**	ug/L		11/15/2019	16:07
Methyl acetate	< 2.00	ug/L		11/15/2019	16:07
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	16:07
Methylcyclohexane	< 2.00	ug/L		11/15/2019	16:07
Methylene chloride	< 5.00	ug/L		11/15/2019	16:07
o-Xylene	< 2.00	ug/L		11/15/2019	16:07
Styrene	< 5.00	ug/L		11/15/2019	16:07
Tetrachloroethene	< 2.00	ug/L		11/15/2019	16:07
Toluene	**1.18**	ug/L	J	11/15/2019	16:07
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	16:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:07
Trichloroethene	< 2.00	ug/L	11/15/2019	16:07
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	16:07
Vinyl chloride	< 2.00	ug/L	11/15/2019	16:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.5**	70.5 - 135		11/15/2019	16:07
4-Bromofluorobenzene	**103**	62 - 127		11/15/2019	16:07
Pentafluorobenzene	**98.2**	87 - 113		11/15/2019	16:07
Toluene-D8	**108**	80.8 - 115		11/15/2019	16:07

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66319.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 18:56
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 18:56
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 18:56
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 18:56
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 18:56
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 18:56
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 18:56
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 18:56
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:56
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:56
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 18:56
2-Chlorophenol	< 10.0	ug/L		11/8/2019 18:56
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 18:56
2-Methylphenol	< 10.0	ug/L		11/8/2019 18:56
2-Nitroaniline	< 20.0	ug/L		11/8/2019 18:56
2-Nitrophenol	< 10.0	ug/L		11/8/2019 18:56
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 18:56
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 18:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	18:56
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	18:56
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:56
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	18:56
4-Chloroaniline	< 10.0	ug/L	11/8/2019	18:56
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:56
4-Nitroaniline	< 20.0	ug/L	11/8/2019	18:56
4-Nitrophenol	< 20.0	ug/L	11/8/2019	18:56
Acenaphthene	< 10.0	ug/L	11/8/2019	18:56
Acenaphthylene	< 10.0	ug/L	11/8/2019	18:56
Acetophenone	< 10.0	ug/L	11/8/2019	18:56
Anthracene	< 10.0	ug/L	11/8/2019	18:56
Atrazine	< 10.0	ug/L	11/8/2019	18:56
Benzaldehyde	< 10.0	ug/L	11/8/2019	18:56
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	18:56
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	18:56
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	18:56
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	18:56
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	18:56
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	18:56
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	18:56
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	18:56
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	18:56
Caprolactam	< 10.0	ug/L	11/8/2019	18:56
Carbazole	< 10.0	ug/L	11/8/2019	18:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	18:56
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	18:56
Dibenzofuran	< 10.0	ug/L	11/8/2019	18:56
Diethyl phthalate	< 10.0	ug/L	11/8/2019	18:56
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	18:56
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	18:56
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	18:56
Fluoranthene	< 10.0	ug/L	11/8/2019	18:56
Fluorene	< 10.0	ug/L	11/8/2019	18:56
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	18:56
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	18:56
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	18:56
Hexachloroethane	< 10.0	ug/L	11/8/2019	18:56
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	18:56
Isophorone	< 10.0	ug/L	11/8/2019	18:56
Naphthalene	< 10.0	ug/L	11/8/2019	18:56
Nitrobenzene	< 10.0	ug/L	11/8/2019	18:56
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	18:56
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	18:56
Pentachlorophenol	< 20.0	ug/L	11/8/2019	18:56
Phenanthrene	< 10.0	ug/L	11/8/2019	18:56
Phenol	< 10.0	ug/L	11/8/2019	18:56
Pyrene	< 10.0	ug/L	11/8/2019	18:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.0**	56 - 117		11/8/2019	18:56
2-Fluorobiphenyl	**60.3**	36.3 - 95.4		11/8/2019	18:56
2-Fluorophenol	**34.3**	16.1 - 103		11/8/2019	18:56
Nitrobenzene-d5	**69.4**	52.1 - 98.9		11/8/2019	18:56
Phenol-d5	**23.7**	10 - 105		11/8/2019	18:56
Terphenyl-d14	**88.8**	59.6 - 112		11/8/2019	18:56

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42170.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 16:29
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:29
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:29
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 16:29
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 16:29
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:29
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 16:29
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:29
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:29
1,4-Dioxane	< 20.0	ug/L		11/15/2019 16:29
2-Butanone	< 10.0	ug/L		11/15/2019 16:29
2-Hexanone	< 5.00	ug/L		11/15/2019 16:29
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 16:29
Acetone	< 10.0	ug/L		11/15/2019 16:29
Benzene	**1.99**	ug/L		11/15/2019 16:29
Bromochloromethane	< 5.00	ug/L		11/15/2019 16:29
Bromodichloromethane	< 2.00	ug/L		11/15/2019 16:29
Bromoform	< 5.00	ug/L		11/15/2019 16:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	16:29
Carbon disulfide	< 2.00	ug/L	11/15/2019	16:29
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	16:29
Chlorobenzene	< 2.00	ug/L	11/15/2019	16:29
Chloroethane	< 2.00	ug/L	11/15/2019	16:29
Chloroform	< 2.00	ug/L	11/15/2019	16:29
Chloromethane	< 2.00	ug/L	11/15/2019	16:29
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:29
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:29
Cyclohexane	< 10.0	ug/L	11/15/2019	16:29
Dibromochloromethane	< 2.00	ug/L	11/15/2019	16:29
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	16:29
Ethylbenzene	< 2.00	ug/L	11/15/2019	16:29
Freon 113	< 2.00	ug/L	11/15/2019	16:29
Isopropylbenzene	< 2.00	ug/L	11/15/2019	16:29
m,p-Xylene	< 2.00	ug/L	11/15/2019	16:29
Methyl acetate	< 2.00	ug/L	11/15/2019	16:29
Methyl tert-butyl Ether	**34.2**	ug/L	11/15/2019	16:29
Methylcyclohexane	< 2.00	ug/L	11/15/2019	16:29
Methylene chloride	< 5.00	ug/L	11/15/2019	16:29
o-Xylene	< 2.00	ug/L	11/15/2019	16:29
Styrene	< 5.00	ug/L	11/15/2019	16:29
Tetrachloroethene	< 2.00	ug/L	11/15/2019	16:29
Toluene	< 2.00	ug/L	11/15/2019	16:29
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:29
Trichloroethene	< 2.00	ug/L	11/15/2019	16:29
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	16:29
Vinyl chloride	< 2.00	ug/L	11/15/2019	16:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	70.5 - 135		11/15/2019	16:29
4-Bromofluorobenzene	**94.0**	62 - 127		11/15/2019	16:29
Pentafluorobenzene	**92.2**	87 - 113		11/15/2019	16:29
Toluene-D8	**97.4**	80.8 - 115		11/15/2019	16:29

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66320.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 19:25
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 19:25
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 19:25
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 19:25
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 19:25
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 19:25
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 19:25
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 19:25
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:25
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:25
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 19:25
2-Chlorophenol	< 10.0	ug/L		11/8/2019 19:25
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 19:25
2-Methylphenol	< 10.0	ug/L		11/8/2019 19:25
2-Nitroaniline	< 20.0	ug/L		11/8/2019 19:25
2-Nitrophenol	< 10.0	ug/L		11/8/2019 19:25
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 19:25
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 19:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	19:25
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	19:25
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:25
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	19:25
4-Chloroaniline	< 10.0	ug/L	11/8/2019	19:25
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:25
4-Nitroaniline	< 20.0	ug/L	11/8/2019	19:25
4-Nitrophenol	< 20.0	ug/L	11/8/2019	19:25
Acenaphthene	< 10.0	ug/L	11/8/2019	19:25
Acenaphthylene	< 10.0	ug/L	11/8/2019	19:25
Acetophenone	< 10.0	ug/L	11/8/2019	19:25
Anthracene	< 10.0	ug/L	11/8/2019	19:25
Atrazine	< 10.0	ug/L	11/8/2019	19:25
Benzaldehyde	< 10.0	ug/L	11/8/2019	19:25
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	19:25
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	19:25
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	19:25
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	19:25
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	19:25
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	19:25
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	19:25
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	19:25
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	19:25
Caprolactam	< 10.0	ug/L	11/8/2019	19:25
Carbazole	< 10.0	ug/L	11/8/2019	19:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	19:25
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	19:25
Dibenzofuran	< 10.0	ug/L	11/8/2019	19:25
Diethyl phthalate	< 10.0	ug/L	11/8/2019	19:25
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	19:25
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	19:25
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	19:25
Fluoranthene	< 10.0	ug/L	11/8/2019	19:25
Fluorene	< 10.0	ug/L	11/8/2019	19:25
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	19:25
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	19:25
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	19:25
Hexachloroethane	< 10.0	ug/L	11/8/2019	19:25
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	19:25
Isophorone	< 10.0	ug/L	11/8/2019	19:25
Naphthalene	< 10.0	ug/L	11/8/2019	19:25
Nitrobenzene	< 10.0	ug/L	11/8/2019	19:25
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	19:25
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	19:25
Pentachlorophenol	< 20.0	ug/L	11/8/2019	19:25
Phenanthrene	< 10.0	ug/L	11/8/2019	19:25
Phenol	< 10.0	ug/L	11/8/2019	19:25
Pyrene	< 10.0	ug/L	11/8/2019	19:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**90.1**	56 - 117		11/8/2019 19:25
2-Fluorobiphenyl	**58.4**	36.3 - 95.4		11/8/2019 19:25
2-Fluorophenol	**40.5**	16.1 - 103		11/8/2019 19:25
Nitrobenzene-d5	**72.8**	52.1 - 98.9		11/8/2019 19:25
Phenol-d5	**27.5**	10 - 105		11/8/2019 19:25
Terphenyl-d14	**87.5**	59.6 - 112		11/8/2019 19:25

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42171.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 16:52
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:52
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:52
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 16:52
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 16:52
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:52
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 16:52
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:52
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:52
1,4-Dioxane	< 20.0	ug/L		11/15/2019 16:52
2-Butanone	< 10.0	ug/L		11/15/2019 16:52
2-Hexanone	< 5.00	ug/L		11/15/2019 16:52
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 16:52
Acetone	< 10.0	ug/L		11/15/2019 16:52
Benzene	< 1.00	ug/L		11/15/2019 16:52
Bromochloromethane	< 5.00	ug/L		11/15/2019 16:52
Bromodichloromethane	< 2.00	ug/L		11/15/2019 16:52
Bromoform	< 5.00	ug/L		11/15/2019 16:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	16:52
Carbon disulfide	< 2.00	ug/L	11/15/2019	16:52
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	16:52
Chlorobenzene	< 2.00	ug/L	11/15/2019	16:52
Chloroethane	< 2.00	ug/L	11/15/2019	16:52
Chloroform	< 2.00	ug/L	11/15/2019	16:52
Chloromethane	< 2.00	ug/L	11/15/2019	16:52
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:52
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:52
Cyclohexane	< 10.0	ug/L	11/15/2019	16:52
Dibromochloromethane	< 2.00	ug/L	11/15/2019	16:52
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	16:52
Ethylbenzene	< 2.00	ug/L	11/15/2019	16:52
Freon 113	< 2.00	ug/L	11/15/2019	16:52
Isopropylbenzene	< 2.00	ug/L	11/15/2019	16:52
m,p-Xylene	< 2.00	ug/L	11/15/2019	16:52
Methyl acetate	< 2.00	ug/L	11/15/2019	16:52
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	16:52
Methylcyclohexane	< 2.00	ug/L	11/15/2019	16:52
Methylene chloride	< 5.00	ug/L	11/15/2019	16:52
o-Xylene	< 2.00	ug/L	11/15/2019	16:52
Styrene	< 5.00	ug/L	11/15/2019	16:52
Tetrachloroethene	< 2.00	ug/L	11/15/2019	16:52
Toluene	< 2.00	ug/L	11/15/2019	16:52
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:52
Trichloroethene	< 2.00	ug/L	11/15/2019	16:52
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	16:52
Vinyl chloride	< 2.00	ug/L	11/15/2019	16:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	70.5 - 135		11/15/2019	16:52
4-Bromofluorobenzene	**84.5**	62 - 127		11/15/2019	16:52
Pentafluorobenzene	**95.6**	87 - 113		11/15/2019	16:52
Toluene-D8	**94.8**	80.8 - 115		11/15/2019	16:52

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66321.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 19:54
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 19:54
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 19:54
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 19:54
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 19:54
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 19:54
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 19:54
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 19:54
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:54
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:54
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 19:54
2-Chlorophenol	< 10.0	ug/L		11/8/2019 19:54
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 19:54
2-Methylphenol	< 10.0	ug/L		11/8/2019 19:54
2-Nitroaniline	< 20.0	ug/L		11/8/2019 19:54
2-Nitrophenol	< 10.0	ug/L		11/8/2019 19:54
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 19:54
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	19:54
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	19:54
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:54
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	19:54
4-Chloroaniline	< 10.0	ug/L	11/8/2019	19:54
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:54
4-Nitroaniline	< 20.0	ug/L	11/8/2019	19:54
4-Nitrophenol	< 20.0	ug/L	11/8/2019	19:54
Acenaphthene	< 10.0	ug/L	11/8/2019	19:54
Acenaphthylene	< 10.0	ug/L	11/8/2019	19:54
Acetophenone	< 10.0	ug/L	11/8/2019	19:54
Anthracene	< 10.0	ug/L	11/8/2019	19:54
Atrazine	< 10.0	ug/L	11/8/2019	19:54
Benzaldehyde	< 10.0	ug/L	11/8/2019	19:54
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	19:54
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	19:54
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	19:54
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	19:54
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	19:54
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	19:54
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	19:54
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	19:54
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	19:54
Caprolactam	< 10.0	ug/L	11/8/2019	19:54
Carbazole	< 10.0	ug/L	11/8/2019	19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	19:54
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	19:54
Dibenzofuran	< 10.0	ug/L	11/8/2019	19:54
Diethyl phthalate	< 10.0	ug/L	11/8/2019	19:54
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	19:54
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	19:54
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	19:54
Fluoranthene	< 10.0	ug/L	11/8/2019	19:54
Fluorene	< 10.0	ug/L	11/8/2019	19:54
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	19:54
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	19:54
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	19:54
Hexachloroethane	< 10.0	ug/L	11/8/2019	19:54
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	19:54
Isophorone	< 10.0	ug/L	11/8/2019	19:54
Naphthalene	< 10.0	ug/L	11/8/2019	19:54
Nitrobenzene	< 10.0	ug/L	11/8/2019	19:54
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	19:54
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	19:54
Pentachlorophenol	< 20.0	ug/L	11/8/2019	19:54
Phenanthrene	< 10.0	ug/L	11/8/2019	19:54
Phenol	< 10.0	ug/L	11/8/2019	19:54
Pyrene	< 10.0	ug/L	11/8/2019	19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**71.9**	56 - 117		11/8/2019 19:54
2-Fluorobiphenyl	**47.1**	36.3 - 95.4		11/8/2019 19:54
2-Fluorophenol	**32.6**	16.1 - 103		11/8/2019 19:54
Nitrobenzene-d5	**61.9**	52.1 - 98.9		11/8/2019 19:54
Phenol-d5	**23.1**	10 - 105		11/8/2019 19:54
Terphenyl-d14	**67.9**	59.6 - 112		11/8/2019 19:54

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42172.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 17:15
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 17:15
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 17:15
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 17:15
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 17:15
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 17:15
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 17:15
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 17:15
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 17:15
1,4-Dioxane	< 20.0	ug/L		11/15/2019 17:15
2-Butanone	< 10.0	ug/L		11/15/2019 17:15
2-Hexanone	< 5.00	ug/L		11/15/2019 17:15
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 17:15
Acetone	< 10.0	ug/L		11/15/2019 17:15
Benzene	< 1.00	ug/L		11/15/2019 17:15
Bromochloromethane	< 5.00	ug/L		11/15/2019 17:15
Bromodichloromethane	< 2.00	ug/L		11/15/2019 17:15
Bromoform	< 5.00	ug/L		11/15/2019 17:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	17:15
Carbon disulfide	< 2.00	ug/L	11/15/2019	17:15
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	17:15
Chlorobenzene	< 2.00	ug/L	11/15/2019	17:15
Chloroethane	< 2.00	ug/L	11/15/2019	17:15
Chloroform	< 2.00	ug/L	11/15/2019	17:15
Chloromethane	< 2.00	ug/L	11/15/2019	17:15
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	17:15
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	17:15
Cyclohexane	< 10.0	ug/L	11/15/2019	17:15
Dibromochloromethane	< 2.00	ug/L	11/15/2019	17:15
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	17:15
Ethylbenzene	< 2.00	ug/L	11/15/2019	17:15
Freon 113	< 2.00	ug/L	11/15/2019	17:15
Isopropylbenzene	< 2.00	ug/L	11/15/2019	17:15
m,p-Xylene	< 2.00	ug/L	11/15/2019	17:15
Methyl acetate	< 2.00	ug/L	11/15/2019	17:15
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	17:15
Methylcyclohexane	< 2.00	ug/L	11/15/2019	17:15
Methylene chloride	< 5.00	ug/L	11/15/2019	17:15
o-Xylene	< 2.00	ug/L	11/15/2019	17:15
Styrene	< 5.00	ug/L	11/15/2019	17:15
Tetrachloroethene	< 2.00	ug/L	11/15/2019	17:15
Toluene	< 2.00	ug/L	11/15/2019	17:15
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	17:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	17:15
Trichloroethene	< 2.00	ug/L	11/15/2019	17:15
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	17:15
Vinyl chloride	< 2.00	ug/L	11/15/2019	17:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	70.5 - 135		11/15/2019	17:15
4-Bromofluorobenzene	**85.8**	62 - 127		11/15/2019	17:15
Pentafluorobenzene	**93.4**	87 - 113		11/15/2019	17:15
Toluene-D8	**94.7**	80.8 - 115		11/15/2019	17:15

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66322.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T953
Lab Sample ID: 195546-10 **Date Sampled:** 11/5/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1,2-Trichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1-Dichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1-Dichloroethene	< 2.00	ug/L		11/19/2019 15:54
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/19/2019 15:54
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/19/2019 15:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/19/2019 15:54
1,2-Dibromoethane	< 2.00	ug/L		11/19/2019 15:54
1,2-Dichlorobenzene	< 2.00	ug/L		11/19/2019 15:54
1,2-Dichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,2-Dichloropropane	< 2.00	ug/L		11/19/2019 15:54
1,3-Dichlorobenzene	< 2.00	ug/L		11/19/2019 15:54
1,4-Dichlorobenzene	< 2.00	ug/L		11/19/2019 15:54
1,4-Dioxane	< 20.0	ug/L		11/19/2019 15:54
2-Butanone	< 10.0	ug/L		11/19/2019 15:54
2-Hexanone	< 5.00	ug/L		11/19/2019 15:54
4-Methyl-2-pentanone	< 5.00	ug/L		11/19/2019 15:54
Acetone	< 10.0	ug/L		11/19/2019 15:54
Benzene	< 1.00	ug/L		11/19/2019 15:54
Bromochloromethane	< 5.00	ug/L		11/19/2019 15:54
Bromodichloromethane	< 2.00	ug/L		11/19/2019 15:54
Bromoform	< 5.00	ug/L		11/19/2019 15:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T953
Lab Sample ID: 195546-10 **Date Sampled:** 11/5/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/19/2019	15:54
Carbon disulfide	< 2.00	ug/L	11/19/2019	15:54
Carbon Tetrachloride	< 2.00	ug/L	11/19/2019	15:54
Chlorobenzene	< 2.00	ug/L	11/19/2019	15:54
Chloroethane	< 2.00	ug/L	11/19/2019	15:54
Chloroform	< 2.00	ug/L	11/19/2019	15:54
Chloromethane	< 2.00	ug/L	11/19/2019	15:54
cis-1,2-Dichloroethene	< 2.00	ug/L	11/19/2019	15:54
cis-1,3-Dichloropropene	< 2.00	ug/L	11/19/2019	15:54
Cyclohexane	< 10.0	ug/L	11/19/2019	15:54
Dibromochloromethane	< 2.00	ug/L	11/19/2019	15:54
Dichlorodifluoromethane	< 2.00	ug/L	11/19/2019	15:54
Ethylbenzene	< 2.00	ug/L	11/19/2019	15:54
Freon 113	< 2.00	ug/L	11/19/2019	15:54
Isopropylbenzene	< 2.00	ug/L	11/19/2019	15:54
m,p-Xylene	< 2.00	ug/L	11/19/2019	15:54
Methyl acetate	< 2.00	ug/L	11/19/2019	15:54
Methyl tert-butyl Ether	< 2.00	ug/L	11/19/2019	15:54
Methylcyclohexane	< 2.00	ug/L	11/19/2019	15:54
Methylene chloride	< 5.00	ug/L	11/19/2019	15:54
o-Xylene	< 2.00	ug/L	11/19/2019	15:54
Styrene	< 5.00	ug/L	11/19/2019	15:54
Tetrachloroethene	< 2.00	ug/L	11/19/2019	15:54
Toluene	< 2.00	ug/L	11/19/2019	15:54
trans-1,2-Dichloroethene	< 2.00	ug/L	11/19/2019	15:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T953
Lab Sample ID: 195546-10 **Date Sampled:** 11/5/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/19/2019	15:54
Trichloroethene	< 2.00	ug/L	11/19/2019	15:54
Trichlorofluoromethane	< 2.00	ug/L	11/19/2019	15:54
Vinyl chloride	< 2.00	ug/L	11/19/2019	15:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	70.5 - 135		11/19/2019	15:54
4-Bromofluorobenzene	**85.8**	62 - 127		11/19/2019	15:54
Pentafluorobenzene	**98.7**	87 - 113		11/19/2019	15:54
Toluene-D8	**95.2**	80.8 - 115		11/19/2019	15:54

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66437.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.

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 re-perform 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 th 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.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1of3

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	195546
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/6/2019	1140		X	MW-11 per visual on 11/7/19	W	3	X	X		01
	1140		X	MW-11 (MS)		3	X	X		01
	1140		X	MW-11 (MSD)		3	X	X		01
	1232	AZ	X	MW-15R		3	X	X		02
	~~1337~~ 1345		X	MW-9R		3	X	X		03
	1435		X	MW-1		3	X	X		04
	1545		X	MW-3		3	X	X		05
	NA		X	Blind Duplicate		3	X	X		06
11/7/2019	1042		X	MW-7R		3	X	X		07
	1325		X	MW-2		3	X	X	08 4°C iced	11/7/19 1555

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

Sampled By: Alexandra Zobel — Date/Time: 11/7/19 (AZ 11/6/19)
Relinquished By: Alexandra Zobel — Date/Time: 11/7/19 @ 1543
Received By: Jane J Oaloia — Date/Time: 11/7/19 1543
Received @ Lab By: Molly Nail — Date/Time: 11/7/19 1630

No custody seals client delivered MN

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

2063

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	LAB PROJECT ID: 195546
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/7/2019	1415		X	MW-16	W	3	X	X		09
11/5/19				Trip Blank T953 per label mw 11/7/19	W	1	X			10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☑		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

Alexandra Zobel	11/6/2019 11/7/2019	
Sampled By	Date/Time	Total Cost:
Alexandra Zobel	11/7/2019 @ 1543	
Relinquished By	Date/Time	
[signature]	11/7/19 1543	
Received By	Date/Time	P.I.F.
Molly Vail	11/7/19 1650	
Received @ Lab By	Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Chain of Custody Supplement

Client: City of Roch **Completed by:** Molly Laid

Lab Project ID: 195546 **Date:** 11/7/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		SVOA
Comments			
Preservation	VOA		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.4	ug/L		2/25/2020 15:00
1,2,4,5-Tetrachlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,2,4-Trichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,2-Dichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,3-Dichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,4-Dichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
2,2-Oxybis (1-chloropropane)	< 10.4	ug/L		2/25/2020 15:00
2,3,4,6-Tetrachlorophenol	< 10.4	ug/L		2/25/2020 15:00
2,4,5-Trichlorophenol	< 20.7	ug/L		2/25/2020 15:00
2,4,6-Trichlorophenol	< 10.4	ug/L		2/25/2020 15:00
2,4-Dichlorophenol	< 10.4	ug/L		2/25/2020 15:00
2,4-Dimethylphenol	< 20.7	ug/L		2/25/2020 15:00
2,4-Dinitrophenol	< 20.7	ug/L		2/25/2020 15:00
2,4-Dinitrotoluene	< 10.4	ug/L		2/25/2020 15:00
2,6-Dinitrotoluene	< 10.4	ug/L		2/25/2020 15:00
2-Chloronaphthalene	< 10.4	ug/L		2/25/2020 15:00
2-Chlorophenol	< 10.4	ug/L		2/25/2020 15:00
2-Methylnapthalene	< 10.4	ug/L		2/25/2020 15:00
2-Methylphenol	< 10.4	ug/L		2/25/2020 15:00
2-Nitroaniline	< 20.7	ug/L		2/25/2020 15:00
2-Nitrophenol	< 10.4	ug/L		2/25/2020 15:00
3&4-Methylphenol	< 10.4	ug/L		2/25/2020 15:00
3,3'-Dichlorobenzidine	< 10.4	ug/L		2/25/2020 15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-8		
Lab Sample ID:	200801-01	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.7	ug/L	2/25/2020	15:00
4,6-Dinitro-2-methylphenol	< 20.7	ug/L	2/25/2020	15:00
4-Bromophenyl phenyl ether	< 10.4	ug/L	2/25/2020	15:00
4-Chloro-3-methylphenol	< 10.4	ug/L	2/25/2020	15:00
4-Chloroaniline	< 10.4	ug/L	2/25/2020	15:00
4-Chlorophenyl phenyl ether	< 10.4	ug/L	2/25/2020	15:00
4-Nitroaniline	< 20.7	ug/L	2/25/2020	15:00
4-Nitrophenol	< 20.7	ug/L	2/25/2020	15:00
Acenaphthene	< 10.4	ug/L	2/25/2020	15:00
Acenaphthylene	< 10.4	ug/L	2/25/2020	15:00
Acetophenone	< 10.4	ug/L	2/25/2020	15:00
Anthracene	< 10.4	ug/L	2/25/2020	15:00
Atrazine	< 10.4	ug/L	2/25/2020	15:00
Benzaldehyde	< 10.4	ug/L	2/25/2020	15:00
Benzo (a) anthracene	< 10.4	ug/L	2/25/2020	15:00
Benzo (a) pyrene	< 10.4	ug/L	2/25/2020	15:00
Benzo (b) fluoranthene	< 10.4	ug/L	2/25/2020	15:00
Benzo (g,h,i) perylene	< 10.4	ug/L	2/25/2020	15:00
Benzo (k) fluoranthene	< 10.4	ug/L	2/25/2020	15:00
Bis (2-chloroethoxy) methane	< 10.4	ug/L	2/25/2020	15:00
Bis (2-chloroethyl) ether	< 10.4	ug/L	2/25/2020	15:00
Bis (2-ethylhexyl) phthalate	< 10.4	ug/L	2/25/2020	15:00
Butylbenzylphthalate	< 10.4	ug/L	2/25/2020	15:00
Caprolactam	< 10.4	ug/L	2/25/2020	15:00
Carbazole	< 10.4	ug/L	2/25/2020	15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.4	ug/L	2/25/2020	15:00
Dibenz (a,h) anthracene	< 10.4	ug/L	2/25/2020	15:00
Dibenzofuran	< 10.4	ug/L	2/25/2020	15:00
Diethyl phthalate	< 10.4	ug/L	2/25/2020	15:00
Dimethyl phthalate	< 20.7	ug/L	2/25/2020	15:00
Di-n-butyl phthalate	< 10.4	ug/L	2/25/2020	15:00
Di-n-octylphthalate	< 10.4	ug/L	2/25/2020	15:00
Fluoranthene	< 10.4	ug/L	2/25/2020	15:00
Fluorene	< 10.4	ug/L	2/25/2020	15:00
Hexachlorobenzene	< 10.4	ug/L	2/25/2020	15:00
Hexachlorobutadiene	< 10.4	ug/L	2/25/2020	15:00
Hexachlorocyclopentadiene	< 10.4	ug/L	2/25/2020	15:00
Hexachloroethane	< 10.4	ug/L	2/25/2020	15:00
Indeno (1,2,3-cd) pyrene	< 10.4	ug/L	2/25/2020	15:00
Isophorone	< 10.4	ug/L	2/25/2020	15:00
Naphthalene	< 10.4	ug/L	2/25/2020	15:00
Nitrobenzene	< 10.4	ug/L	2/25/2020	15:00
N-Nitroso-di-n-propylamine	< 10.4	ug/L	2/25/2020	15:00
N-Nitrosodiphenylamine	< 10.4	ug/L	2/25/2020	15:00
Pentachlorophenol	< 20.7	ug/L	2/25/2020	15:00
Phenanthrene	< 10.4	ug/L	2/25/2020	15:00
Phenol	< 10.4	ug/L	2/25/2020	15:00
Pyrene	< 10.4	ug/L	2/25/2020	15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**88.5**	59.6 - 114		2/25/2020	15:00
2-Fluorobiphenyl	**60.0**	36.2 - 99.1		2/25/2020	15:00
2-Fluorophenol	**43.2**	14.9 - 105		2/25/2020	15:00
Nitrobenzene-d5	**69.5**	53.7 - 102		2/25/2020	15:00
Phenol-d5	**29.2**	10 - 106		2/25/2020	15:00
Terphenyl-d14	**72.3**	58.7 - 116		2/25/2020	15:00

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44682.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 13:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 13:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 13:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 13:49
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 13:49
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 13:49
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 13:49
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 13:49
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 13:49
1,4-Dioxane	< 20.0	ug/L		2/24/2020 13:49
2-Butanone	< 10.0	ug/L		2/24/2020 13:49
2-Hexanone	< 5.00	ug/L		2/24/2020 13:49
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 13:49
Acetone	< 10.0	ug/L		2/24/2020 13:49
Benzene	< 1.00	ug/L		2/24/2020 13:49
Bromochloromethane	< 5.00	ug/L		2/24/2020 13:49
Bromodichloromethane	< 2.00	ug/L		2/24/2020 13:49
Bromoform	< 5.00	ug/L		2/24/2020 13:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	13:49
Carbon disulfide	< 2.00	ug/L	2/24/2020	13:49
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	13:49
Chlorobenzene	< 2.00	ug/L	2/24/2020	13:49
Chloroethane	< 2.00	ug/L	2/24/2020	13:49
Chloroform	< 2.00	ug/L	2/24/2020	13:49
Chloromethane	< 2.00	ug/L	2/24/2020	13:49
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	13:49
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	13:49
Cyclohexane	< 10.0	ug/L	2/24/2020	13:49
Dibromochloromethane	< 2.00	ug/L	2/24/2020	13:49
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	13:49
Ethylbenzene	< 2.00	ug/L	2/24/2020	13:49
Freon 113	< 2.00	ug/L	2/24/2020	13:49
Isopropylbenzene	< 2.00	ug/L	2/24/2020	13:49
m,p-Xylene	< 2.00	ug/L	2/24/2020	13:49
Methyl acetate	< 2.00	ug/L	2/24/2020	13:49
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	13:49
Methylcyclohexane	< 2.00	ug/L	2/24/2020	13:49
Methylene chloride	< 5.00	ug/L	2/24/2020	13:49
o-Xylene	< 2.00	ug/L	2/24/2020	13:49
Styrene	< 5.00	ug/L	2/24/2020	13:49
Tetrachloroethene	< 2.00	ug/L	2/24/2020	13:49
Toluene	< 2.00	ug/L	2/24/2020	13:49
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	13:49

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 13:49
Trichloroethene	< 2.00	ug/L			2/24/2020 13:49
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 13:49
Vinyl chloride	< 2.00	ug/L			2/24/2020 13:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**108**	74.3 - 138		2/24/2020 13:49
4-Bromofluorobenzene	**70.7**	66.3 - 125		2/24/2020 13:49
Pentafluorobenzene	**91.0**	87.4 - 111		2/24/2020 13:49
Toluene-D8	**86.4**	85.8 - 113		2/24/2020 13:49

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68640.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		2/25/2020 15:28
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,2,4-Trichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,2-Dichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,3-Dichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,4-Dichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		2/25/2020 15:28
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		2/25/2020 15:28
2,4,5-Trichlorophenol	< 20.5	ug/L		2/25/2020 15:28
2,4,6-Trichlorophenol	< 10.2	ug/L		2/25/2020 15:28
2,4-Dichlorophenol	< 10.2	ug/L		2/25/2020 15:28
2,4-Dimethylphenol	< 20.5	ug/L		2/25/2020 15:28
2,4-Dinitrophenol	< 20.5	ug/L		2/25/2020 15:28
2,4-Dinitrotoluene	< 10.2	ug/L		2/25/2020 15:28
2,6-Dinitrotoluene	< 10.2	ug/L		2/25/2020 15:28
2-Chloronaphthalene	< 10.2	ug/L		2/25/2020 15:28
2-Chlorophenol	< 10.2	ug/L		2/25/2020 15:28
2-Methylnapthalene	< 10.2	ug/L		2/25/2020 15:28
2-Methylphenol	< 10.2	ug/L		2/25/2020 15:28
2-Nitroaniline	< 20.5	ug/L		2/25/2020 15:28
2-Nitrophenol	< 10.2	ug/L		2/25/2020 15:28
3&4-Methylphenol	< 10.2	ug/L		2/25/2020 15:28
3,3'-Dichlorobenzidine	< 10.2	ug/L		2/25/2020 15:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-2		
Lab Sample ID:	200801-02	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.5	ug/L	2/25/2020	15:28
4,6-Dinitro-2-methylphenol	< 20.5	ug/L	2/25/2020	15:28
4-Bromophenyl phenyl ether	< 10.2	ug/L	2/25/2020	15:28
4-Chloro-3-methylphenol	< 10.2	ug/L	2/25/2020	15:28
4-Chloroaniline	< 10.2	ug/L	2/25/2020	15:28
4-Chlorophenyl phenyl ether	< 10.2	ug/L	2/25/2020	15:28
4-Nitroaniline	< 20.5	ug/L	2/25/2020	15:28
4-Nitrophenol	< 20.5	ug/L	2/25/2020	15:28
Acenaphthene	< 10.2	ug/L	2/25/2020	15:28
Acenaphthylene	< 10.2	ug/L	2/25/2020	15:28
Acetophenone	< 10.2	ug/L	2/25/2020	15:28
Anthracene	< 10.2	ug/L	2/25/2020	15:28
Atrazine	< 10.2	ug/L	2/25/2020	15:28
Benzaldehyde	< 10.2	ug/L	2/25/2020	15:28
Benzo (a) anthracene	< 10.2	ug/L	2/25/2020	15:28
Benzo (a) pyrene	< 10.2	ug/L	2/25/2020	15:28
Benzo (b) fluoranthene	< 10.2	ug/L	2/25/2020	15:28
Benzo (g,h,i) perylene	< 10.2	ug/L	2/25/2020	15:28
Benzo (k) fluoranthene	< 10.2	ug/L	2/25/2020	15:28
Bis (2-chloroethoxy) methane	< 10.2	ug/L	2/25/2020	15:28
Bis (2-chloroethyl) ether	< 10.2	ug/L	2/25/2020	15:28
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	2/25/2020	15:28
Butylbenzylphthalate	< 10.2	ug/L	2/25/2020	15:28
Caprolactam	< 10.2	ug/L	2/25/2020	15:28
Carbazole	< 10.2	ug/L	2/25/2020	15:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.2	ug/L	2/25/2020	15:28
Dibenz (a,h) anthracene	< 10.2	ug/L	2/25/2020	15:28
Dibenzofuran	< 10.2	ug/L	2/25/2020	15:28
Diethyl phthalate	< 10.2	ug/L	2/25/2020	15:28
Dimethyl phthalate	< 20.5	ug/L	2/25/2020	15:28
Di-n-butyl phthalate	< 10.2	ug/L	2/25/2020	15:28
Di-n-octylphthalate	< 10.2	ug/L	2/25/2020	15:28
Fluoranthene	< 10.2	ug/L	2/25/2020	15:28
Fluorene	< 10.2	ug/L	2/25/2020	15:28
Hexachlorobenzene	< 10.2	ug/L	2/25/2020	15:28
Hexachlorobutadiene	< 10.2	ug/L	2/25/2020	15:28
Hexachlorocyclopentadiene	< 10.2	ug/L	2/25/2020	15:28
Hexachloroethane	< 10.2	ug/L	2/25/2020	15:28
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	2/25/2020	15:28
Isophorone	< 10.2	ug/L	2/25/2020	15:28
Naphthalene	< 10.2	ug/L	2/25/2020	15:28
Nitrobenzene	< 10.2	ug/L	2/25/2020	15:28
N-Nitroso-di-n-propylamine	< 10.2	ug/L	2/25/2020	15:28
N-Nitrosodiphenylamine	< 10.2	ug/L	2/25/2020	15:28
Pentachlorophenol	< 20.5	ug/L	2/25/2020	15:28
Phenanthrene	< 10.2	ug/L	2/25/2020	15:28
Phenol	< 10.2	ug/L	2/25/2020	15:28
Pyrene	< 10.2	ug/L	2/25/2020	15:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.0**	59.6 - 114		2/25/2020	15:28
2-Fluorobiphenyl	**61.2**	36.2 - 99.1		2/25/2020	15:28
2-Fluorophenol	**43.7**	14.9 - 105		2/25/2020	15:28
Nitrobenzene-d5	**73.0**	53.7 - 102		2/25/2020	15:28
Phenol-d5	**28.8**	10 - 106		2/25/2020	15:28
Terphenyl-d14	**70.7**	58.7 - 116		2/25/2020	15:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44683.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 14:11
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:11
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:11
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 14:11
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 14:11
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:11
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 14:11
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:11
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:11
1,4-Dioxane	< 20.0	ug/L		2/24/2020 14:11
2-Butanone	< 10.0	ug/L		2/24/2020 14:11
2-Hexanone	< 5.00	ug/L		2/24/2020 14:11
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 14:11
Acetone	< 10.0	ug/L		2/24/2020 14:11
Benzene	< 1.00	ug/L		2/24/2020 14:11
Bromochloromethane	< 5.00	ug/L		2/24/2020 14:11
Bromodichloromethane	< 2.00	ug/L		2/24/2020 14:11
Bromoform	< 5.00	ug/L		2/24/2020 14:11

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	14:11
Carbon disulfide	< 2.00	ug/L	2/24/2020	14:11
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	14:11
Chlorobenzene	< 2.00	ug/L	2/24/2020	14:11
Chloroethane	< 2.00	ug/L	2/24/2020	14:11
Chloroform	< 2.00	ug/L	2/24/2020	14:11
Chloromethane	< 2.00	ug/L	2/24/2020	14:11
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:11
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:11
Cyclohexane	< 10.0	ug/L	2/24/2020	14:11
Dibromochloromethane	< 2.00	ug/L	2/24/2020	14:11
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	14:11
Ethylbenzene	< 2.00	ug/L	2/24/2020	14:11
Freon 113	< 2.00	ug/L	2/24/2020	14:11
Isopropylbenzene	< 2.00	ug/L	2/24/2020	14:11
m,p-Xylene	< 2.00	ug/L	2/24/2020	14:11
Methyl acetate	< 2.00	ug/L	2/24/2020	14:11
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	14:11
Methylcyclohexane	< 2.00	ug/L	2/24/2020	14:11
Methylene chloride	< 5.00	ug/L	2/24/2020	14:11
o-Xylene	< 2.00	ug/L	2/24/2020	14:11
Styrene	< 5.00	ug/L	2/24/2020	14:11
Tetrachloroethene	< 2.00	ug/L	2/24/2020	14:11
Toluene	< 2.00	ug/L	2/24/2020	14:11
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:11

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L		2/24/2020	14:11
Trichloroethene	< 2.00	ug/L		2/24/2020	14:11
Trichlorofluoromethane	< 2.00	ug/L		2/24/2020	14:11
Vinyl chloride	< 2.00	ug/L		2/24/2020	14:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	74.3 - 138		2/24/2020	14:11
4-Bromofluorobenzene	**70.3**	66.3 - 125		2/24/2020	14:11
Pentafluorobenzene	**90.7**	87.4 - 111		2/24/2020	14:11
Toluene-D8	**87.1**	85.8 - 113		2/24/2020	14:11

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68641.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-11		
Lab Sample ID:	200801-03	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 15:57
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 15:57
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 15:57
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 15:57
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 15:57
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 15:57
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 15:57
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 15:57
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 15:57
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 15:57
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 15:57
2-Chlorophenol	< 10.0	ug/L		2/25/2020 15:57
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 15:57
2-Methylphenol	< 10.0	ug/L		2/25/2020 15:57
2-Nitroaniline	< 20.0	ug/L		2/25/2020 15:57
2-Nitrophenol	< 10.0	ug/L		2/25/2020 15:57
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 15:57
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 15:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-11		
Lab Sample ID:	200801-03	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	15:57
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	15:57
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	15:57
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	15:57
4-Chloroaniline	< 10.0	ug/L	2/25/2020	15:57
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	15:57
4-Nitroaniline	< 20.0	ug/L	2/25/2020	15:57
4-Nitrophenol	< 20.0	ug/L	2/25/2020	15:57
Acenaphthene	< 10.0	ug/L	2/25/2020	15:57
Acenaphthylene	< 10.0	ug/L	2/25/2020	15:57
Acetophenone	< 10.0	ug/L	2/25/2020	15:57
Anthracene	< 10.0	ug/L	2/25/2020	15:57
Atrazine	< 10.0	ug/L	2/25/2020	15:57
Benzaldehyde	< 10.0	ug/L	2/25/2020	15:57
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	15:57
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	15:57
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	15:57
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	15:57
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	15:57
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	15:57
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	15:57
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	15:57
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	15:57
Caprolactam	< 10.0	ug/L	2/25/2020	15:57
Carbazole	< 10.0	ug/L	2/25/2020	15:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	15:57
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	15:57
Dibenzofuran	< 10.0	ug/L	2/25/2020	15:57
Diethyl phthalate	< 10.0	ug/L	2/25/2020	15:57
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	15:57
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	15:57
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	15:57
Fluoranthene	< 10.0	ug/L	2/25/2020	15:57
Fluorene	< 10.0	ug/L	2/25/2020	15:57
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	15:57
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	15:57
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	15:57
Hexachloroethane	< 10.0	ug/L	2/25/2020	15:57
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	15:57
Isophorone	< 10.0	ug/L	2/25/2020	15:57
Naphthalene	< 10.0	ug/L	2/25/2020	15:57
Nitrobenzene	< 10.0	ug/L	2/25/2020	15:57
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	15:57
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	15:57
Pentachlorophenol	< 20.0	ug/L	2/25/2020	15:57
Phenanthrene	< 10.0	ug/L	2/25/2020	15:57
Phenol	< 10.0	ug/L	2/25/2020	15:57
Pyrene	< 10.0	ug/L	2/25/2020	15:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.1**	59.6 - 114		2/25/2020	15:57
2-Fluorobiphenyl	**60.4**	36.2 - 99.1		2/25/2020	15:57
2-Fluorophenol	**42.2**	14.9 - 105		2/25/2020	15:57
Nitrobenzene-d5	**70.6**	53.7 - 102		2/25/2020	15:57
Phenol-d5	**29.1**	10 - 106		2/25/2020	15:57
Terphenyl-d14	**71.7**	58.7 - 116		2/25/2020	15:57

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44684.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 14:34
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:34
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:34
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 14:34
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 14:34
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:34
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 14:34
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:34
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:34
1,4-Dioxane	< 20.0	ug/L		2/24/2020 14:34
2-Butanone	< 10.0	ug/L		2/24/2020 14:34
2-Hexanone	< 5.00	ug/L		2/24/2020 14:34
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 14:34
Acetone	< 10.0	ug/L		2/24/2020 14:34
Benzene	**0.840**	ug/L	J	2/24/2020 14:34
Bromochloromethane	< 5.00	ug/L		2/24/2020 14:34
Bromodichloromethane	< 2.00	ug/L		2/24/2020 14:34
Bromoform	< 5.00	ug/L		2/24/2020 14:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	14:34
Carbon disulfide	< 2.00	ug/L	2/24/2020	14:34
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	14:34
Chlorobenzene	< 2.00	ug/L	2/24/2020	14:34
Chloroethane	< 2.00	ug/L	2/24/2020	14:34
Chloroform	< 2.00	ug/L	2/24/2020	14:34
Chloromethane	< 2.00	ug/L	2/24/2020	14:34
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:34
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:34
Cyclohexane	< 10.0	ug/L	2/24/2020	14:34
Dibromochloromethane	< 2.00	ug/L	2/24/2020	14:34
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	14:34
Ethylbenzene	**5.41**	ug/L	2/24/2020	14:34
Freon 113	< 2.00	ug/L	2/24/2020	14:34
Isopropylbenzene	< 2.00	ug/L	2/24/2020	14:34
m,p-Xylene	**2.75**	ug/L	2/24/2020	14:34
Methyl acetate	< 2.00	ug/L	2/24/2020	14:34
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	14:34
Methylcyclohexane	< 2.00	ug/L	2/24/2020	14:34
Methylene chloride	< 5.00	ug/L	2/24/2020	14:34
o-Xylene	< 2.00	ug/L	2/24/2020	14:34
Styrene	< 5.00	ug/L	2/24/2020	14:34
Tetrachloroethene	< 2.00	ug/L	2/24/2020	14:34
Toluene	< 2.00	ug/L	2/24/2020	14:34
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:34
Trichloroethene	< 2.00	ug/L	2/24/2020	14:34
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	14:34
Vinyl chloride	< 2.00	ug/L	2/24/2020	14:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	74.3 - 138		2/24/2020	14:34
4-Bromofluorobenzene	**84.8**	66.3 - 125		2/24/2020	14:34
Pentafluorobenzene	**89.5**	87.4 - 111		2/24/2020	14:34
Toluene-D8	**89.8**	85.8 - 113		2/24/2020	14:34

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68642.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		2/25/2020 16:25
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,2,4-Trichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,2-Dichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,3-Dichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,4-Dichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		2/25/2020 16:25
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		2/25/2020 16:25
2,4,5-Trichlorophenol	< 20.6	ug/L		2/25/2020 16:25
2,4,6-Trichlorophenol	< 10.3	ug/L		2/25/2020 16:25
2,4-Dichlorophenol	< 10.3	ug/L		2/25/2020 16:25
2,4-Dimethylphenol	< 20.6	ug/L		2/25/2020 16:25
2,4-Dinitrophenol	< 20.6	ug/L		2/25/2020 16:25
2,4-Dinitrotoluene	< 10.3	ug/L		2/25/2020 16:25
2,6-Dinitrotoluene	< 10.3	ug/L		2/25/2020 16:25
2-Chloronaphthalene	< 10.3	ug/L		2/25/2020 16:25
2-Chlorophenol	< 10.3	ug/L		2/25/2020 16:25
2-Methylnapthalene	< 10.3	ug/L		2/25/2020 16:25
2-Methylphenol	< 10.3	ug/L		2/25/2020 16:25
2-Nitroaniline	< 20.6	ug/L		2/25/2020 16:25
2-Nitrophenol	< 10.3	ug/L		2/25/2020 16:25
3&4-Methylphenol	< 10.3	ug/L		2/25/2020 16:25
3,3'-Dichlorobenzidine	< 10.3	ug/L		2/25/2020 16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.6	ug/L	2/25/2020	16:25
4,6-Dinitro-2-methylphenol	< 20.6	ug/L	2/25/2020	16:25
4-Bromophenyl phenyl ether	< 10.3	ug/L	2/25/2020	16:25
4-Chloro-3-methylphenol	< 10.3	ug/L	2/25/2020	16:25
4-Chloroaniline	< 10.3	ug/L	2/25/2020	16:25
4-Chlorophenyl phenyl ether	< 10.3	ug/L	2/25/2020	16:25
4-Nitroaniline	< 20.6	ug/L	2/25/2020	16:25
4-Nitrophenol	< 20.6	ug/L	2/25/2020	16:25
Acenaphthene	< 10.3	ug/L	2/25/2020	16:25
Acenaphthylene	< 10.3	ug/L	2/25/2020	16:25
Acetophenone	< 10.3	ug/L	2/25/2020	16:25
Anthracene	< 10.3	ug/L	2/25/2020	16:25
Atrazine	< 10.3	ug/L	2/25/2020	16:25
Benzaldehyde	< 10.3	ug/L	2/25/2020	16:25
Benzo (a) anthracene	< 10.3	ug/L	2/25/2020	16:25
Benzo (a) pyrene	< 10.3	ug/L	2/25/2020	16:25
Benzo (b) fluoranthene	< 10.3	ug/L	2/25/2020	16:25
Benzo (g,h,i) perylene	< 10.3	ug/L	2/25/2020	16:25
Benzo (k) fluoranthene	< 10.3	ug/L	2/25/2020	16:25
Bis (2-chloroethoxy) methane	< 10.3	ug/L	2/25/2020	16:25
Bis (2-chloroethyl) ether	< 10.3	ug/L	2/25/2020	16:25
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	2/25/2020	16:25
Butylbenzylphthalate	< 10.3	ug/L	2/25/2020	16:25
Caprolactam	< 10.3	ug/L	2/25/2020	16:25
Carbazole	< 10.3	ug/L	2/25/2020	16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Chrysene	< 10.3	ug/L	2/25/2020	16:25
Dibenz (a,h) anthracene	< 10.3	ug/L	2/25/2020	16:25
Dibenzofuran	< 10.3	ug/L	2/25/2020	16:25
Diethyl phthalate	< 10.3	ug/L	2/25/2020	16:25
Dimethyl phthalate	< 20.6	ug/L	2/25/2020	16:25
Di-n-butyl phthalate	< 10.3	ug/L	2/25/2020	16:25
Di-n-octylphthalate	< 10.3	ug/L	2/25/2020	16:25
Fluoranthene	< 10.3	ug/L	2/25/2020	16:25
Fluorene	< 10.3	ug/L	2/25/2020	16:25
Hexachlorobenzene	< 10.3	ug/L	2/25/2020	16:25
Hexachlorobutadiene	< 10.3	ug/L	2/25/2020	16:25
Hexachlorocyclopentadiene	< 10.3	ug/L	2/25/2020	16:25
Hexachloroethane	< 10.3	ug/L	2/25/2020	16:25
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	2/25/2020	16:25
Isophorone	< 10.3	ug/L	2/25/2020	16:25
Naphthalene	< 10.3	ug/L	2/25/2020	16:25
Nitrobenzene	< 10.3	ug/L	2/25/2020	16:25
N-Nitroso-di-n-propylamine	< 10.3	ug/L	2/25/2020	16:25
N-Nitrosodiphenylamine	< 10.3	ug/L	2/25/2020	16:25
Pentachlorophenol	< 20.6	ug/L	2/25/2020	16:25
Phenanthrene	< 10.3	ug/L	2/25/2020	16:25
Phenol	< 10.3	ug/L	2/25/2020	16:25
Pyrene	< 10.3	ug/L	2/25/2020	16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-15R
Lab Sample ID: 200801-04 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.9**	59.6 - 114		2/25/2020	16:25
2-Fluorobiphenyl	**60.8**	36.2 - 99.1		2/25/2020	16:25
2-Fluorophenol	**40.7**	14.9 - 105		2/25/2020	16:25
Nitrobenzene-d5	**71.2**	53.7 - 102		2/25/2020	16:25
Phenol-d5	**27.4**	10 - 106		2/25/2020	16:25
Terphenyl-d14	**72.8**	58.7 - 116		2/25/2020	16:25

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44685.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 14:57
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:57
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:57
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 14:57
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 14:57
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:57
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 14:57
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:57
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:57
1,4-Dioxane	< 20.0	ug/L		2/24/2020 14:57
2-Butanone	< 10.0	ug/L		2/24/2020 14:57
2-Hexanone	< 5.00	ug/L		2/24/2020 14:57
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 14:57
Acetone	< 10.0	ug/L		2/24/2020 14:57
Benzene	< 1.00	ug/L		2/24/2020 14:57
Bromochloromethane	< 5.00	ug/L		2/24/2020 14:57
Bromodichloromethane	< 2.00	ug/L		2/24/2020 14:57
Bromoform	< 5.00	ug/L		2/24/2020 14:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-15R
Lab Sample ID: 200801-04 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	14:57
Carbon disulfide	< 2.00	ug/L	2/24/2020	14:57
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	14:57
Chlorobenzene	< 2.00	ug/L	2/24/2020	14:57
Chloroethane	< 2.00	ug/L	2/24/2020	14:57
Chloroform	< 2.00	ug/L	2/24/2020	14:57
Chloromethane	< 2.00	ug/L	2/24/2020	14:57
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:57
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:57
Cyclohexane	< 10.0	ug/L	2/24/2020	14:57
Dibromochloromethane	< 2.00	ug/L	2/24/2020	14:57
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	14:57
Ethylbenzene	**3.30**	ug/L	2/24/2020	14:57
Freon 113	< 2.00	ug/L	2/24/2020	14:57
Isopropylbenzene	< 2.00	ug/L	2/24/2020	14:57
m,p-Xylene	< 2.00	ug/L	2/24/2020	14:57
Methyl acetate	< 2.00	ug/L	2/24/2020	14:57
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	14:57
Methylcyclohexane	< 2.00	ug/L	2/24/2020	14:57
Methylene chloride	< 5.00	ug/L	2/24/2020	14:57
o-Xylene	< 2.00	ug/L	2/24/2020	14:57
Styrene	< 5.00	ug/L	2/24/2020	14:57
Tetrachloroethene	< 2.00	ug/L	2/24/2020	14:57
Toluene	< 2.00	ug/L	2/24/2020	14:57
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-15R
Lab Sample ID: 200801-04 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 14:57
Trichloroethene	< 2.00	ug/L			2/24/2020 14:57
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 14:57
Vinyl chloride	< 2.00	ug/L			2/24/2020 14:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**101**	74.3 - 138		2/24/2020 14:57
4-Bromofluorobenzene	**79.9**	66.3 - 125		2/24/2020 14:57
Pentafluorobenzene	**87.4**	87.4 - 111		2/24/2020 14:57
Toluene-D8	**93.3**	85.8 - 113		2/24/2020 14:57

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68643.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.4	ug/L		2/25/2020 17:50
1,2,4,5-Tetrachlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,2,4-Trichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,2-Dichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,3-Dichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,4-Dichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
2,2-Oxybis (1-chloropropane)	< 10.4	ug/L		2/25/2020 17:50
2,3,4,6-Tetrachlorophenol	< 10.4	ug/L		2/25/2020 17:50
2,4,5-Trichlorophenol	< 20.8	ug/L		2/25/2020 17:50
2,4,6-Trichlorophenol	< 10.4	ug/L		2/25/2020 17:50
2,4-Dichlorophenol	< 10.4	ug/L		2/25/2020 17:50
2,4-Dimethylphenol	< 20.8	ug/L		2/25/2020 17:50
2,4-Dinitrophenol	< 20.8	ug/L		2/25/2020 17:50
2,4-Dinitrotoluene	< 10.4	ug/L		2/25/2020 17:50
2,6-Dinitrotoluene	< 10.4	ug/L		2/25/2020 17:50
2-Chloronaphthalene	< 10.4	ug/L		2/25/2020 17:50
2-Chlorophenol	< 10.4	ug/L		2/25/2020 17:50
2-Methylnapthalene	< 10.4	ug/L		2/25/2020 17:50
2-Methylphenol	< 10.4	ug/L		2/25/2020 17:50
2-Nitroaniline	< 20.8	ug/L		2/25/2020 17:50
2-Nitrophenol	< 10.4	ug/L		2/25/2020 17:50
3&4-Methylphenol	< 10.4	ug/L		2/25/2020 17:50
3,3'-Dichlorobenzidine	< 10.4	ug/L		2/25/2020 17:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	200801-05	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.8	ug/L	2/25/2020	17:50
4,6-Dinitro-2-methylphenol	< 20.8	ug/L	2/25/2020	17:50
4-Bromophenyl phenyl ether	< 10.4	ug/L	2/25/2020	17:50
4-Chloro-3-methylphenol	< 10.4	ug/L	2/25/2020	17:50
4-Chloroaniline	< 10.4	ug/L	2/25/2020	17:50
4-Chlorophenyl phenyl ether	< 10.4	ug/L	2/25/2020	17:50
4-Nitroaniline	< 20.8	ug/L	2/25/2020	17:50
4-Nitrophenol	< 20.8	ug/L	2/25/2020	17:50
Acenaphthene	< 10.4	ug/L	2/25/2020	17:50
Acenaphthylene	< 10.4	ug/L	2/25/2020	17:50
Acetophenone	< 10.4	ug/L	2/25/2020	17:50
Anthracene	< 10.4	ug/L	2/25/2020	17:50
Atrazine	< 10.4	ug/L	2/25/2020	17:50
Benzaldehyde	< 10.4	ug/L	2/25/2020	17:50
Benzo (a) anthracene	< 10.4	ug/L	2/25/2020	17:50
Benzo (a) pyrene	< 10.4	ug/L	2/25/2020	17:50
Benzo (b) fluoranthene	< 10.4	ug/L	2/25/2020	17:50
Benzo (g,h,i) perylene	< 10.4	ug/L	2/25/2020	17:50
Benzo (k) fluoranthene	< 10.4	ug/L	2/25/2020	17:50
Bis (2-chloroethoxy) methane	< 10.4	ug/L	2/25/2020	17:50
Bis (2-chloroethyl) ether	< 10.4	ug/L	2/25/2020	17:50
Bis (2-ethylhexyl) phthalate	< 10.4	ug/L	2/25/2020	17:50
Butylbenzylphthalate	< 10.4	ug/L	2/25/2020	17:50
Caprolactam	< 10.4	ug/L	2/25/2020	17:50
Carbazole	< 10.4	ug/L	2/25/2020	17:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	200801-05	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Chrysene	< 10.4	ug/L	2/25/2020	17:50
Dibenz (a,h) anthracene	< 10.4	ug/L	2/25/2020	17:50
Dibenzofuran	< 10.4	ug/L	2/25/2020	17:50
Diethyl phthalate	< 10.4	ug/L	2/25/2020	17:50
Dimethyl phthalate	< 20.8	ug/L	2/25/2020	17:50
Di-n-butyl phthalate	< 10.4	ug/L	2/25/2020	17:50
Di-n-octylphthalate	< 10.4	ug/L	2/25/2020	17:50
Fluoranthene	< 10.4	ug/L	2/25/2020	17:50
Fluorene	< 10.4	ug/L	2/25/2020	17:50
Hexachlorobenzene	< 10.4	ug/L	2/25/2020	17:50
Hexachlorobutadiene	< 10.4	ug/L	2/25/2020	17:50
Hexachlorocyclopentadiene	< 10.4	ug/L	2/25/2020	17:50
Hexachloroethane	< 10.4	ug/L	2/25/2020	17:50
Indeno (1,2,3-cd) pyrene	< 10.4	ug/L	2/25/2020	17:50
Isophorone	< 10.4	ug/L	2/25/2020	17:50
Naphthalene	< 10.4	ug/L	2/25/2020	17:50
Nitrobenzene	< 10.4	ug/L	2/25/2020	17:50
N-Nitroso-di-n-propylamine	< 10.4	ug/L	2/25/2020	17:50
N-Nitrosodiphenylamine	< 10.4	ug/L	2/25/2020	17:50
Pentachlorophenol	< 20.8	ug/L	2/25/2020	17:50
Phenanthrene	< 10.4	ug/L	2/25/2020	17:50
Phenol	< 10.4	ug/L	2/25/2020	17:50
Pyrene	< 10.4	ug/L	2/25/2020	17:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**92.0**	59.6 - 114		2/25/2020	17:50
2-Fluorobiphenyl	**63.3**	36.2 - 99.1		2/25/2020	17:50
2-Fluorophenol	**42.8**	14.9 - 105		2/25/2020	17:50
Nitrobenzene-d5	**73.2**	53.7 - 102		2/25/2020	17:50
Phenol-d5	**28.3**	10 - 106		2/25/2020	17:50
Terphenyl-d14	**73.2**	58.7 - 116		2/25/2020	17:50

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44688.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 15:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 15:20
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 15:20
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:20
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 15:20
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:20
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:20
1,4-Dioxane	< 20.0	ug/L		2/24/2020 15:20
2-Butanone	< 10.0	ug/L		2/24/2020 15:20
2-Hexanone	< 5.00	ug/L		2/24/2020 15:20
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 15:20
Acetone	< 10.0	ug/L		2/24/2020 15:20
Benzene	< 1.00	ug/L		2/24/2020 15:20
Bromochloromethane	< 5.00	ug/L		2/24/2020 15:20
Bromodichloromethane	< 2.00	ug/L		2/24/2020 15:20
Bromoform	< 5.00	ug/L		2/24/2020 15:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	200801-05	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	15:20
Carbon disulfide	< 2.00	ug/L	2/24/2020	15:20
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	15:20
Chlorobenzene	< 2.00	ug/L	2/24/2020	15:20
Chloroethane	< 2.00	ug/L	2/24/2020	15:20
Chloroform	< 2.00	ug/L	2/24/2020	15:20
Chloromethane	< 2.00	ug/L	2/24/2020	15:20
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:20
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:20
Cyclohexane	< 10.0	ug/L	2/24/2020	15:20
Dibromochloromethane	< 2.00	ug/L	2/24/2020	15:20
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	15:20
Ethylbenzene	**3.50**	ug/L	2/24/2020	15:20
Freon 113	< 2.00	ug/L	2/24/2020	15:20
Isopropylbenzene	< 2.00	ug/L	2/24/2020	15:20
m,p-Xylene	< 2.00	ug/L	2/24/2020	15:20
Methyl acetate	< 2.00	ug/L	2/24/2020	15:20
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	15:20
Methylcyclohexane	< 2.00	ug/L	2/24/2020	15:20
Methylene chloride	< 5.00	ug/L	2/24/2020	15:20
o-Xylene	< 2.00	ug/L	2/24/2020	15:20
Styrene	< 5.00	ug/L	2/24/2020	15:20
Tetrachloroethene	< 2.00	ug/L	2/24/2020	15:20
Toluene	< 2.00	ug/L	2/24/2020	15:20
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:20

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:20
Trichloroethene	< 2.00	ug/L	2/24/2020	15:20
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	15:20
Vinyl chloride	< 2.00	ug/L	2/24/2020	15:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.6**	74.3 - 138		2/24/2020	15:20
4-Bromofluorobenzene	**80.0**	66.3 - 125		2/24/2020	15:20
Pentafluorobenzene	**90.1**	87.4 - 111		2/24/2020	15:20
Toluene-D8	**94.6**	85.8 - 113		2/24/2020	15:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68644.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-9R		
Lab Sample ID:	200801-06	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		2/25/2020 18:19
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,2,4-Trichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,2-Dichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,3-Dichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,4-Dichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		2/25/2020 18:19
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		2/25/2020 18:19
2,4,5-Trichlorophenol	< 20.3	ug/L		2/25/2020 18:19
2,4,6-Trichlorophenol	< 10.2	ug/L		2/25/2020 18:19
2,4-Dichlorophenol	< 10.2	ug/L		2/25/2020 18:19
2,4-Dimethylphenol	< 20.3	ug/L		2/25/2020 18:19
2,4-Dinitrophenol	< 20.3	ug/L		2/25/2020 18:19
2,4-Dinitrotoluene	< 10.2	ug/L		2/25/2020 18:19
2,6-Dinitrotoluene	< 10.2	ug/L		2/25/2020 18:19
2-Chloronaphthalene	< 10.2	ug/L		2/25/2020 18:19
2-Chlorophenol	< 10.2	ug/L		2/25/2020 18:19
2-Methylnapthalene	< 10.2	ug/L		2/25/2020 18:19
2-Methylphenol	< 10.2	ug/L		2/25/2020 18:19
2-Nitroaniline	< 20.3	ug/L		2/25/2020 18:19
2-Nitrophenol	< 10.2	ug/L		2/25/2020 18:19
3&4-Methylphenol	< 10.2	ug/L		2/25/2020 18:19
3,3'-Dichlorobenzidine	< 10.2	ug/L		2/25/2020 18:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-9R		
Lab Sample ID:	200801-06	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.3	ug/L	2/25/2020	18:19
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	2/25/2020	18:19
4-Bromophenyl phenyl ether	< 10.2	ug/L	2/25/2020	18:19
4-Chloro-3-methylphenol	< 10.2	ug/L	2/25/2020	18:19
4-Chloroaniline	< 10.2	ug/L	2/25/2020	18:19
4-Chlorophenyl phenyl ether	< 10.2	ug/L	2/25/2020	18:19
4-Nitroaniline	< 20.3	ug/L	2/25/2020	18:19
4-Nitrophenol	< 20.3	ug/L	2/25/2020	18:19
Acenaphthene	< 10.2	ug/L	2/25/2020	18:19
Acenaphthylene	< 10.2	ug/L	2/25/2020	18:19
Acetophenone	< 10.2	ug/L	2/25/2020	18:19
Anthracene	< 10.2	ug/L	2/25/2020	18:19
Atrazine	< 10.2	ug/L	2/25/2020	18:19
Benzaldehyde	< 10.2	ug/L	2/25/2020	18:19
Benzo (a) anthracene	< 10.2	ug/L	2/25/2020	18:19
Benzo (a) pyrene	< 10.2	ug/L	2/25/2020	18:19
Benzo (b) fluoranthene	< 10.2	ug/L	2/25/2020	18:19
Benzo (g,h,i) perylene	< 10.2	ug/L	2/25/2020	18:19
Benzo (k) fluoranthene	< 10.2	ug/L	2/25/2020	18:19
Bis (2-chloroethoxy) methane	< 10.2	ug/L	2/25/2020	18:19
Bis (2-chloroethyl) ether	< 10.2	ug/L	2/25/2020	18:19
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	2/25/2020	18:19
Butylbenzylphthalate	< 10.2	ug/L	2/25/2020	18:19
Caprolactam	< 10.2	ug/L	2/25/2020	18:19
Carbazole	< 10.2	ug/L	2/25/2020	18:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.2	ug/L	2/25/2020	18:19
Dibenz (a,h) anthracene	< 10.2	ug/L	2/25/2020	18:19
Dibenzofuran	< 10.2	ug/L	2/25/2020	18:19
Diethyl phthalate	< 10.2	ug/L	2/25/2020	18:19
Dimethyl phthalate	< 20.3	ug/L	2/25/2020	18:19
Di-n-butyl phthalate	< 10.2	ug/L	2/25/2020	18:19
Di-n-octylphthalate	< 10.2	ug/L	2/25/2020	18:19
Fluoranthene	< 10.2	ug/L	2/25/2020	18:19
Fluorene	< 10.2	ug/L	2/25/2020	18:19
Hexachlorobenzene	< 10.2	ug/L	2/25/2020	18:19
Hexachlorobutadiene	< 10.2	ug/L	2/25/2020	18:19
Hexachlorocyclopentadiene	< 10.2	ug/L	2/25/2020	18:19
Hexachloroethane	< 10.2	ug/L	2/25/2020	18:19
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	2/25/2020	18:19
Isophorone	< 10.2	ug/L	2/25/2020	18:19
Naphthalene	< 10.2	ug/L	2/25/2020	18:19
Nitrobenzene	< 10.2	ug/L	2/25/2020	18:19
N-Nitroso-di-n-propylamine	< 10.2	ug/L	2/25/2020	18:19
N-Nitrosodiphenylamine	< 10.2	ug/L	2/25/2020	18:19
Pentachlorophenol	< 20.3	ug/L	2/25/2020	18:19
Phenanthrene	< 10.2	ug/L	2/25/2020	18:19
Phenol	< 10.2	ug/L	2/25/2020	18:19
Pyrene	< 10.2	ug/L	2/25/2020	18:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.5**	59.6 - 114		2/25/2020	18:19
2-Fluorobiphenyl	**66.8**	36.2 - 99.1		2/25/2020	18:19
2-Fluorophenol	**44.3**	14.9 - 105		2/25/2020	18:19
Nitrobenzene-d5	**75.8**	53.7 - 102		2/25/2020	18:19
Phenol-d5	**28.4**	10 - 106		2/25/2020	18:19
Terphenyl-d14	**72.8**	58.7 - 116		2/25/2020	18:19

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44689.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 15:42
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:42
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:42
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 15:42
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 15:42
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:42
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 15:42
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:42
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:42
1,4-Dioxane	< 20.0	ug/L		2/24/2020 15:42
2-Butanone	< 10.0	ug/L		2/24/2020 15:42
2-Hexanone	< 5.00	ug/L		2/24/2020 15:42
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 15:42
Acetone	< 10.0	ug/L		2/24/2020 15:42
Benzene	< 1.00	ug/L		2/24/2020 15:42
Bromochloromethane	< 5.00	ug/L		2/24/2020 15:42
Bromodichloromethane	< 2.00	ug/L		2/24/2020 15:42
Bromoform	< 5.00	ug/L		2/24/2020 15:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-9R		
Lab Sample ID:	200801-06	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	15:42
Carbon disulfide	< 2.00	ug/L	2/24/2020	15:42
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	15:42
Chlorobenzene	< 2.00	ug/L	2/24/2020	15:42
Chloroethane	< 2.00	ug/L	2/24/2020	15:42
Chloroform	< 2.00	ug/L	2/24/2020	15:42
Chloromethane	< 2.00	ug/L	2/24/2020	15:42
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:42
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:42
Cyclohexane	< 10.0	ug/L	2/24/2020	15:42
Dibromochloromethane	< 2.00	ug/L	2/24/2020	15:42
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	15:42
Ethylbenzene	< 2.00	ug/L	2/24/2020	15:42
Freon 113	< 2.00	ug/L	2/24/2020	15:42
Isopropylbenzene	< 2.00	ug/L	2/24/2020	15:42
m,p-Xylene	< 2.00	ug/L	2/24/2020	15:42
Methyl acetate	< 2.00	ug/L	2/24/2020	15:42
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	15:42
Methylcyclohexane	< 2.00	ug/L	2/24/2020	15:42
Methylene chloride	< 5.00	ug/L	2/24/2020	15:42
o-Xylene	< 2.00	ug/L	2/24/2020	15:42
Styrene	< 5.00	ug/L	2/24/2020	15:42
Tetrachloroethene	< 2.00	ug/L	2/24/2020	15:42
Toluene	< 2.00	ug/L	2/24/2020	15:42
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:42
Trichloroethene	< 2.00	ug/L	2/24/2020	15:42
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	15:42
Vinyl chloride	< 2.00	ug/L	2/24/2020	15:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	74.3 - 138		2/24/2020	15:42
4-Bromofluorobenzene	**71.4**	66.3 - 125		2/24/2020	15:42
Pentafluorobenzene	**93.6**	87.4 - 111		2/24/2020	15:42
Toluene-D8	**90.2**	85.8 - 113		2/24/2020	15:42

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68645.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-16		
Lab Sample ID:	200801-07	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 18:47
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 18:47
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 18:47
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 18:47
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 18:47
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 18:47
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 18:47
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 18:47
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 18:47
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 18:47
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 18:47
2-Chlorophenol	< 10.0	ug/L		2/25/2020 18:47
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 18:47
2-Methylphenol	< 10.0	ug/L		2/25/2020 18:47
2-Nitroaniline	< 20.0	ug/L		2/25/2020 18:47
2-Nitrophenol	< 10.0	ug/L		2/25/2020 18:47
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 18:47
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 18:47

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-16		
Lab Sample ID:	200801-07	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	18:47
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	18:47
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	18:47
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	18:47
4-Chloroaniline	< 10.0	ug/L	2/25/2020	18:47
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	18:47
4-Nitroaniline	< 20.0	ug/L	2/25/2020	18:47
4-Nitrophenol	< 20.0	ug/L	2/25/2020	18:47
Acenaphthene	< 10.0	ug/L	2/25/2020	18:47
Acenaphthylene	< 10.0	ug/L	2/25/2020	18:47
Acetophenone	< 10.0	ug/L	2/25/2020	18:47
Anthracene	< 10.0	ug/L	2/25/2020	18:47
Atrazine	< 10.0	ug/L	2/25/2020	18:47
Benzaldehyde	< 10.0	ug/L	2/25/2020	18:47
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	18:47
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	18:47
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	18:47
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	18:47
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	18:47
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	18:47
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	18:47
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	18:47
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	18:47
Caprolactam	< 10.0	ug/L	2/25/2020	18:47
Carbazole	< 10.0	ug/L	2/25/2020	18:47

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	18:47
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	18:47
Dibenzofuran	< 10.0	ug/L	2/25/2020	18:47
Diethyl phthalate	< 10.0	ug/L	2/25/2020	18:47
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	18:47
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	18:47
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	18:47
Fluoranthene	< 10.0	ug/L	2/25/2020	18:47
Fluorene	< 10.0	ug/L	2/25/2020	18:47
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	18:47
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	18:47
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	18:47
Hexachloroethane	< 10.0	ug/L	2/25/2020	18:47
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	18:47
Isophorone	< 10.0	ug/L	2/25/2020	18:47
Naphthalene	< 10.0	ug/L	2/25/2020	18:47
Nitrobenzene	< 10.0	ug/L	2/25/2020	18:47
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	18:47
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	18:47
Pentachlorophenol	< 20.0	ug/L	2/25/2020	18:47
Phenanthrene	< 10.0	ug/L	2/25/2020	18:47
Phenol	< 10.0	ug/L	2/25/2020	18:47
Pyrene	< 10.0	ug/L	2/25/2020	18:47

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**83.8**	59.6 - 114		2/25/2020 18:47
2-Fluorobiphenyl	**55.5**	36.2 - 99.1		2/25/2020 18:47
2-Fluorophenol	**39.6**	14.9 - 105		2/25/2020 18:47
Nitrobenzene-d5	**66.2**	53.7 - 102		2/25/2020 18:47
Phenol-d5	**26.6**	10 - 106		2/25/2020 18:47
Terphenyl-d14	**68.6**	58.7 - 116		2/25/2020 18:47

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44690.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 16:05
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:05
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:05
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 16:05
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 16:05
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:05
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 16:05
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:05
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:05
1,4-Dioxane	< 20.0	ug/L		2/24/2020 16:05
2-Butanone	< 10.0	ug/L		2/24/2020 16:05
2-Hexanone	< 5.00	ug/L		2/24/2020 16:05
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 16:05
Acetone	< 10.0	ug/L		2/24/2020 16:05
Benzene	< 1.00	ug/L		2/24/2020 16:05
Bromochloromethane	< 5.00	ug/L		2/24/2020 16:05
Bromodichloromethane	< 2.00	ug/L		2/24/2020 16:05
Bromoform	< 5.00	ug/L		2/24/2020 16:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-16		
Lab Sample ID:	200801-07	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	16:05
Carbon disulfide	< 2.00	ug/L	2/24/2020	16:05
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	16:05
Chlorobenzene	< 2.00	ug/L	2/24/2020	16:05
Chloroethane	< 2.00	ug/L	2/24/2020	16:05
Chloroform	< 2.00	ug/L	2/24/2020	16:05
Chloromethane	< 2.00	ug/L	2/24/2020	16:05
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:05
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:05
Cyclohexane	< 10.0	ug/L	2/24/2020	16:05
Dibromochloromethane	< 2.00	ug/L	2/24/2020	16:05
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	16:05
Ethylbenzene	< 2.00	ug/L	2/24/2020	16:05
Freon 113	< 2.00	ug/L	2/24/2020	16:05
Isopropylbenzene	< 2.00	ug/L	2/24/2020	16:05
m,p-Xylene	< 2.00	ug/L	2/24/2020	16:05
Methyl acetate	< 2.00	ug/L	2/24/2020	16:05
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	16:05
Methylcyclohexane	< 2.00	ug/L	2/24/2020	16:05
Methylene chloride	< 5.00	ug/L	2/24/2020	16:05
o-Xylene	< 2.00	ug/L	2/24/2020	16:05
Styrene	< 5.00	ug/L	2/24/2020	16:05
Tetrachloroethene	< 2.00	ug/L	2/24/2020	16:05
Toluene	< 2.00	ug/L	2/24/2020	16:05
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:05
Trichloroethene	< 2.00	ug/L	2/24/2020	16:05
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	16:05
Vinyl chloride	< 2.00	ug/L	2/24/2020	16:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	74.3 - 138		2/24/2020	16:05
4-Bromofluorobenzene	**71.1**	66.3 - 125		2/24/2020	16:05
Pentafluorobenzene	**92.8**	87.4 - 111		2/24/2020	16:05
Toluene-D8	**94.6**	85.8 - 113		2/24/2020	16:05

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68646.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-4		
Lab Sample ID:	200801-08	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 19:15
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 19:15
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 19:15
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 19:15
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 19:15
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 19:15
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 19:15
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 19:15
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:15
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:15
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 19:15
2-Chlorophenol	< 10.0	ug/L		2/25/2020 19:15
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 19:15
2-Methylphenol	< 10.0	ug/L		2/25/2020 19:15
2-Nitroaniline	< 20.0	ug/L		2/25/2020 19:15
2-Nitrophenol	< 10.0	ug/L		2/25/2020 19:15
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 19:15
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 19:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-4		
Lab Sample ID:	200801-08	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	19:15
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	19:15
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:15
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	19:15
4-Chloroaniline	< 10.0	ug/L	2/25/2020	19:15
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:15
4-Nitroaniline	< 20.0	ug/L	2/25/2020	19:15
4-Nitrophenol	< 20.0	ug/L	2/25/2020	19:15
Acenaphthene	< 10.0	ug/L	2/25/2020	19:15
Acenaphthylene	< 10.0	ug/L	2/25/2020	19:15
Acetophenone	< 10.0	ug/L	2/25/2020	19:15
Anthracene	< 10.0	ug/L	2/25/2020	19:15
Atrazine	< 10.0	ug/L	2/25/2020	19:15
Benzaldehyde	< 10.0	ug/L	2/25/2020	19:15
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	19:15
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	19:15
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	19:15
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	19:15
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	19:15
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	19:15
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	19:15
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	19:15
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	19:15
Caprolactam	< 10.0	ug/L	2/25/2020	19:15
Carbazole	< 10.0	ug/L	2/25/2020	19:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	19:15
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	19:15
Dibenzofuran	< 10.0	ug/L	2/25/2020	19:15
Diethyl phthalate	< 10.0	ug/L	2/25/2020	19:15
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	19:15
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	19:15
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	19:15
Fluoranthene	< 10.0	ug/L	2/25/2020	19:15
Fluorene	< 10.0	ug/L	2/25/2020	19:15
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	19:15
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	19:15
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	19:15
Hexachloroethane	< 10.0	ug/L	2/25/2020	19:15
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	19:15
Isophorone	< 10.0	ug/L	2/25/2020	19:15
Naphthalene	< 10.0	ug/L	2/25/2020	19:15
Nitrobenzene	< 10.0	ug/L	2/25/2020	19:15
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	19:15
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	19:15
Pentachlorophenol	< 20.0	ug/L	2/25/2020	19:15
Phenanthrene	< 10.0	ug/L	2/25/2020	19:15
Phenol	< 10.0	ug/L	2/25/2020	19:15
Pyrene	< 10.0	ug/L	2/25/2020	19:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**89.9**	59.6 - 114		2/25/2020 19:15
2-Fluorobiphenyl	**58.4**	36.2 - 99.1		2/25/2020 19:15
2-Fluorophenol	**39.8**	14.9 - 105		2/25/2020 19:15
Nitrobenzene-d5	**68.9**	53.7 - 102		2/25/2020 19:15
Phenol-d5	**26.9**	10 - 106		2/25/2020 19:15
Terphenyl-d14	**69.9**	58.7 - 116		2/25/2020 19:15

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44691.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 16:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 16:27
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 16:27
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:27
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 16:27
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:27
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:27
1,4-Dioxane	< 20.0	ug/L		2/24/2020 16:27
2-Butanone	< 10.0	ug/L		2/24/2020 16:27
2-Hexanone	< 5.00	ug/L		2/24/2020 16:27
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 16:27
Acetone	< 10.0	ug/L		2/24/2020 16:27
Benzene	**4.78**	ug/L		2/24/2020 16:27
Bromochloromethane	< 5.00	ug/L		2/24/2020 16:27
Bromodichloromethane	< 2.00	ug/L		2/24/2020 16:27
Bromoform	< 5.00	ug/L		2/24/2020 16:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	16:27
Carbon disulfide	< 2.00	ug/L	2/24/2020	16:27
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	16:27
Chlorobenzene	< 2.00	ug/L	2/24/2020	16:27
Chloroethane	< 2.00	ug/L	2/24/2020	16:27
Chloroform	< 2.00	ug/L	2/24/2020	16:27
Chloromethane	< 2.00	ug/L	2/24/2020	16:27
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:27
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:27
Cyclohexane	< 10.0	ug/L	2/24/2020	16:27
Dibromochloromethane	< 2.00	ug/L	2/24/2020	16:27
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	16:27
Ethylbenzene	**19.5**	ug/L	2/24/2020	16:27
Freon 113	< 2.00	ug/L	2/24/2020	16:27
Isopropylbenzene	< 2.00	ug/L	2/24/2020	16:27
m,p-Xylene	**4.17**	ug/L	2/24/2020	16:27
Methyl acetate	< 2.00	ug/L	2/24/2020	16:27
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	16:27
Methylcyclohexane	< 2.00	ug/L	2/24/2020	16:27
Methylene chloride	< 5.00	ug/L	2/24/2020	16:27
o-Xylene	< 2.00	ug/L	2/24/2020	16:27
Styrene	< 5.00	ug/L	2/24/2020	16:27
Tetrachloroethene	< 2.00	ug/L	2/24/2020	16:27
Toluene	< 2.00	ug/L	2/24/2020	16:27
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:27

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:27
Trichloroethene	< 2.00	ug/L	2/24/2020	16:27
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	16:27
Vinyl chloride	< 2.00	ug/L	2/24/2020	16:27

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**98.4**	74.3 - 138		2/24/2020	16:27
4-Bromofluorobenzene	**89.7**	66.3 - 125		2/24/2020	16:27
Pentafluorobenzene	**89.7**	87.4 - 111		2/24/2020	16:27
Toluene-D8	**96.8**	85.8 - 113		2/24/2020	16:27

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68647.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 19:44
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 19:44
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 19:44
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 19:44
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 19:44
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 19:44
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 19:44
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 19:44
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:44
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:44
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 19:44
2-Chlorophenol	< 10.0	ug/L		2/25/2020 19:44
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 19:44
2-Methylphenol	< 10.0	ug/L		2/25/2020 19:44
2-Nitroaniline	< 20.0	ug/L		2/25/2020 19:44
2-Nitrophenol	< 10.0	ug/L		2/25/2020 19:44
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 19:44
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 19:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	19:44
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	19:44
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:44
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	19:44
4-Chloroaniline	< 10.0	ug/L	2/25/2020	19:44
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:44
4-Nitroaniline	< 20.0	ug/L	2/25/2020	19:44
4-Nitrophenol	< 20.0	ug/L	2/25/2020	19:44
Acenaphthene	< 10.0	ug/L	2/25/2020	19:44
Acenaphthylene	< 10.0	ug/L	2/25/2020	19:44
Acetophenone	< 10.0	ug/L	2/25/2020	19:44
Anthracene	< 10.0	ug/L	2/25/2020	19:44
Atrazine	< 10.0	ug/L	2/25/2020	19:44
Benzaldehyde	< 10.0	ug/L	2/25/2020	19:44
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	19:44
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	19:44
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	19:44
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	19:44
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	19:44
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	19:44
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	19:44
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	19:44
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	19:44
Caprolactam	< 10.0	ug/L	2/25/2020	19:44
Carbazole	< 10.0	ug/L	2/25/2020	19:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	19:44
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	19:44
Dibenzofuran	< 10.0	ug/L	2/25/2020	19:44
Diethyl phthalate	< 10.0	ug/L	2/25/2020	19:44
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	19:44
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	19:44
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	19:44
Fluoranthene	< 10.0	ug/L	2/25/2020	19:44
Fluorene	< 10.0	ug/L	2/25/2020	19:44
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	19:44
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	19:44
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	19:44
Hexachloroethane	< 10.0	ug/L	2/25/2020	19:44
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	19:44
Isophorone	< 10.0	ug/L	2/25/2020	19:44
Naphthalene	< 10.0	ug/L	2/25/2020	19:44
Nitrobenzene	< 10.0	ug/L	2/25/2020	19:44
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	19:44
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	19:44
Pentachlorophenol	< 20.0	ug/L	2/25/2020	19:44
Phenanthrene	< 10.0	ug/L	2/25/2020	19:44
Phenol	< 10.0	ug/L	2/25/2020	19:44
Pyrene	< 10.0	ug/L	2/25/2020	19:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-7R
Lab Sample ID: 200801-09 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**79.5**	59.6 - 114		2/25/2020 19:44
2-Fluorobiphenyl	**49.0**	36.2 - 99.1		2/25/2020 19:44
2-Fluorophenol	**33.8**	14.9 - 105		2/25/2020 19:44
Nitrobenzene-d5	**56.8**	53.7 - 102		2/25/2020 19:44
Phenol-d5	**22.6**	10 - 106		2/25/2020 19:44
Terphenyl-d14	**63.4**	58.7 - 116		2/25/2020 19:44

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44692.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-7R
Lab Sample ID: 200801-09 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 16:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 16:50
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 16:50
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:50
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 16:50
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:50
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:50
1,4-Dioxane	< 20.0	ug/L		2/24/2020 16:50
2-Butanone	< 10.0	ug/L		2/24/2020 16:50
2-Hexanone	< 5.00	ug/L		2/24/2020 16:50
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 16:50
Acetone	< 10.0	ug/L		2/24/2020 16:50
Benzene	**6.70**	ug/L		2/24/2020 16:50
Bromochloromethane	< 5.00	ug/L		2/24/2020 16:50
Bromodichloromethane	< 2.00	ug/L		2/24/2020 16:50
Bromoform	< 5.00	ug/L		2/24/2020 16:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L		2/24/2020	16:50
Carbon disulfide	< 2.00	ug/L		2/24/2020	16:50
Carbon Tetrachloride	< 2.00	ug/L		2/24/2020	16:50
Chlorobenzene	< 2.00	ug/L		2/24/2020	16:50
Chloroethane	< 2.00	ug/L		2/24/2020	16:50
Chloroform	< 2.00	ug/L		2/24/2020	16:50
Chloromethane	< 2.00	ug/L		2/24/2020	16:50
cis-1,2-Dichloroethene	< 2.00	ug/L		2/24/2020	16:50
cis-1,3-Dichloropropene	< 2.00	ug/L		2/24/2020	16:50
Cyclohexane	< 10.0	ug/L		2/24/2020	16:50
Dibromochloromethane	< 2.00	ug/L		2/24/2020	16:50
Dichlorodifluoromethane	< 2.00	ug/L		2/24/2020	16:50
Ethylbenzene	**21.4**	ug/L		2/24/2020	16:50
Freon 113	< 2.00	ug/L		2/24/2020	16:50
Isopropylbenzene	**2.32**	ug/L		2/24/2020	16:50
m,p-Xylene	**5.05**	ug/L		2/24/2020	16:50
Methyl acetate	< 2.00	ug/L		2/24/2020	16:50
Methyl tert-butyl Ether	< 2.00	ug/L		2/24/2020	16:50
Methylcyclohexane	**2.75**	ug/L		2/24/2020	16:50
Methylene chloride	< 5.00	ug/L		2/24/2020	16:50
o-Xylene	**1.58**	ug/L	J	2/24/2020	16:50
Styrene	< 5.00	ug/L		2/24/2020	16:50
Tetrachloroethene	< 2.00	ug/L		2/24/2020	16:50
Toluene	< 2.00	ug/L		2/24/2020	16:50
trans-1,2-Dichloroethene	< 2.00	ug/L		2/24/2020	16:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-7R
Lab Sample ID: 200801-09 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:50
Trichloroethene	< 2.00	ug/L	2/24/2020	16:50
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	16:50
Vinyl chloride	< 2.00	ug/L	2/24/2020	16:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.1**	74.3 - 138		2/24/2020	16:50
4-Bromofluorobenzene	**89.6**	66.3 - 125		2/24/2020	16:50
Pentafluorobenzene	**91.6**	87.4 - 111		2/24/2020	16:50
Toluene-D8	**103**	85.8 - 113		2/24/2020	16:50

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68648.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-1		
Lab Sample ID:	200801-10	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 20:12
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 20:12
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 20:12
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 20:12
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 20:12
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 20:12
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 20:12
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 20:12
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:12
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:12
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 20:12
2-Chlorophenol	< 10.0	ug/L		2/25/2020 20:12
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 20:12
2-Methylphenol	< 10.0	ug/L		2/25/2020 20:12
2-Nitroaniline	< 20.0	ug/L		2/25/2020 20:12
2-Nitrophenol	< 10.0	ug/L		2/25/2020 20:12
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 20:12
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-1		
Lab Sample ID:	200801-10	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	20:12
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	20:12
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:12
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	20:12
4-Chloroaniline	< 10.0	ug/L	2/25/2020	20:12
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:12
4-Nitroaniline	< 20.0	ug/L	2/25/2020	20:12
4-Nitrophenol	< 20.0	ug/L	2/25/2020	20:12
Acenaphthene	< 10.0	ug/L	2/25/2020	20:12
Acenaphthylene	< 10.0	ug/L	2/25/2020	20:12
Acetophenone	< 10.0	ug/L	2/25/2020	20:12
Anthracene	< 10.0	ug/L	2/25/2020	20:12
Atrazine	< 10.0	ug/L	2/25/2020	20:12
Benzaldehyde	< 10.0	ug/L	2/25/2020	20:12
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	20:12
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	20:12
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	20:12
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	20:12
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	20:12
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	20:12
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	20:12
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	20:12
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	20:12
Caprolactam	< 10.0	ug/L	2/25/2020	20:12
Carbazole	< 10.0	ug/L	2/25/2020	20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	20:12
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	20:12
Dibenzofuran	< 10.0	ug/L	2/25/2020	20:12
Diethyl phthalate	< 10.0	ug/L	2/25/2020	20:12
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	20:12
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	20:12
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	20:12
Fluoranthene	< 10.0	ug/L	2/25/2020	20:12
Fluorene	< 10.0	ug/L	2/25/2020	20:12
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	20:12
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	20:12
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	20:12
Hexachloroethane	< 10.0	ug/L	2/25/2020	20:12
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	20:12
Isophorone	< 10.0	ug/L	2/25/2020	20:12
Naphthalene	< 10.0	ug/L	2/25/2020	20:12
Nitrobenzene	< 10.0	ug/L	2/25/2020	20:12
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	20:12
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	20:12
Pentachlorophenol	< 20.0	ug/L	2/25/2020	20:12
Phenanthrene	< 10.0	ug/L	2/25/2020	20:12
Phenol	< 10.0	ug/L	2/25/2020	20:12
Pyrene	< 10.0	ug/L	2/25/2020	20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**88.6**	59.6 - 114		2/25/2020 20:12
2-Fluorobiphenyl	**58.1**	36.2 - 99.1		2/25/2020 20:12
2-Fluorophenol	**34.9**	14.9 - 105		2/25/2020 20:12
Nitrobenzene-d5	**65.2**	53.7 - 102		2/25/2020 20:12
Phenol-d5	**24.1**	10 - 106		2/25/2020 20:12
Terphenyl-d14	**71.7**	58.7 - 116		2/25/2020 20:12

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44693.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-1		
Lab Sample ID:	200801-10	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 17:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 17:13
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 17:13
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:13
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 17:13
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:13
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:13
1,4-Dioxane	< 20.0	ug/L		2/24/2020 17:13
2-Butanone	< 10.0	ug/L		2/24/2020 17:13
2-Hexanone	< 5.00	ug/L		2/24/2020 17:13
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 17:13
Acetone	< 10.0	ug/L		2/24/2020 17:13
Benzene	**5.28**	ug/L		2/24/2020 17:13
Bromochloromethane	< 5.00	ug/L		2/24/2020 17:13
Bromodichloromethane	< 2.00	ug/L		2/24/2020 17:13
Bromoform	< 5.00	ug/L		2/24/2020 17:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	17:13
Carbon disulfide	< 2.00	ug/L	2/24/2020	17:13
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	17:13
Chlorobenzene	< 2.00	ug/L	2/24/2020	17:13
Chloroethane	< 2.00	ug/L	2/24/2020	17:13
Chloroform	< 2.00	ug/L	2/24/2020	17:13
Chloromethane	< 2.00	ug/L	2/24/2020	17:13
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:13
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:13
Cyclohexane	**70.9**	ug/L	2/24/2020	17:13
Dibromochloromethane	< 2.00	ug/L	2/24/2020	17:13
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	17:13
Ethylbenzene	**84.0**	ug/L	2/24/2020	17:13
Freon 113	< 2.00	ug/L	2/24/2020	17:13
Isopropylbenzene	**6.48**	ug/L	2/24/2020	17:13
m,p-Xylene	**48.5**	ug/L	2/24/2020	17:13
Methyl acetate	< 2.00	ug/L	2/24/2020	17:13
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	17:13
Methylcyclohexane	**29.4**	ug/L	2/24/2020	17:13
Methylene chloride	< 5.00	ug/L	2/24/2020	17:13
o-Xylene	**7.64**	ug/L	2/24/2020	17:13
Styrene	< 5.00	ug/L	2/24/2020	17:13
Tetrachloroethene	< 2.00	ug/L	2/24/2020	17:13
Toluene	**2.28**	ug/L	2/24/2020	17:13
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:13

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 17:13
Trichloroethene	< 2.00	ug/L			2/24/2020 17:13
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 17:13
Vinyl chloride	< 2.00	ug/L			2/24/2020 17:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**88.6**	74.3 - 138		2/24/2020 17:13
4-Bromofluorobenzene	**97.2**	66.3 - 125		2/24/2020 17:13
Pentafluorobenzene	**95.5**	87.4 - 111		2/24/2020 17:13
Toluene-D8	**104**	85.8 - 113		2/24/2020 17:13

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68649.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-3		
Lab Sample ID:	200801-11	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 20:40
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 20:40
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 20:40
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 20:40
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 20:40
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 20:40
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 20:40
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 20:40
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:40
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:40
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 20:40
2-Chlorophenol	< 10.0	ug/L		2/25/2020 20:40
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 20:40
2-Methylphenol	< 10.0	ug/L		2/25/2020 20:40
2-Nitroaniline	< 20.0	ug/L		2/25/2020 20:40
2-Nitrophenol	< 10.0	ug/L		2/25/2020 20:40
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 20:40
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-3		
Lab Sample ID:	200801-11	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	20:40
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	20:40
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:40
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	20:40
4-Chloroaniline	< 10.0	ug/L	2/25/2020	20:40
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:40
4-Nitroaniline	< 20.0	ug/L	2/25/2020	20:40
4-Nitrophenol	< 20.0	ug/L	2/25/2020	20:40
Acenaphthene	< 10.0	ug/L	2/25/2020	20:40
Acenaphthylene	< 10.0	ug/L	2/25/2020	20:40
Acetophenone	< 10.0	ug/L	2/25/2020	20:40
Anthracene	< 10.0	ug/L	2/25/2020	20:40
Atrazine	< 10.0	ug/L	2/25/2020	20:40
Benzaldehyde	< 10.0	ug/L	2/25/2020	20:40
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	20:40
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	20:40
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	20:40
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	20:40
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	20:40
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	20:40
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	20:40
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	20:40
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	20:40
Caprolactam	< 10.0	ug/L	2/25/2020	20:40
Carbazole	< 10.0	ug/L	2/25/2020	20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	20:40
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	20:40
Dibenzofuran	< 10.0	ug/L	2/25/2020	20:40
Diethyl phthalate	< 10.0	ug/L	2/25/2020	20:40
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	20:40
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	20:40
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	20:40
Fluoranthene	< 10.0	ug/L	2/25/2020	20:40
Fluorene	< 10.0	ug/L	2/25/2020	20:40
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	20:40
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	20:40
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	20:40
Hexachloroethane	< 10.0	ug/L	2/25/2020	20:40
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	20:40
Isophorone	< 10.0	ug/L	2/25/2020	20:40
Naphthalene	< 10.0	ug/L	2/25/2020	20:40
Nitrobenzene	< 10.0	ug/L	2/25/2020	20:40
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	20:40
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	20:40
Pentachlorophenol	< 20.0	ug/L	2/25/2020	20:40
Phenanthrene	< 10.0	ug/L	2/25/2020	20:40
Phenol	< 10.0	ug/L	2/25/2020	20:40
Pyrene	< 10.0	ug/L	2/25/2020	20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**87.3**	59.6 - 114		2/25/2020 20:40
2-Fluorobiphenyl	**58.9**	36.2 - 99.1		2/25/2020 20:40
2-Fluorophenol	**36.0**	14.9 - 105		2/25/2020 20:40
Nitrobenzene-d5	**67.0**	53.7 - 102		2/25/2020 20:40
Phenol-d5	**24.6**	10 - 106		2/25/2020 20:40
Terphenyl-d14	**69.2**	58.7 - 116		2/25/2020 20:40

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44694.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 17:35
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:35
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 17:35
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 17:35
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:35
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 17:35
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:35
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:35
1,4-Dioxane	< 20.0	ug/L		2/24/2020 17:35
2-Butanone	< 10.0	ug/L		2/24/2020 17:35
2-Hexanone	< 5.00	ug/L		2/24/2020 17:35
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 17:35
Acetone	< 10.0	ug/L		2/24/2020 17:35
Benzene	**2.11**	ug/L		2/24/2020 17:35
Bromochloromethane	< 5.00	ug/L		2/24/2020 17:35
Bromodichloromethane	< 2.00	ug/L		2/24/2020 17:35
Bromoform	< 5.00	ug/L		2/24/2020 17:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	17:35
Carbon disulfide	< 2.00	ug/L	2/24/2020	17:35
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	17:35
Chlorobenzene	< 2.00	ug/L	2/24/2020	17:35
Chloroethane	< 2.00	ug/L	2/24/2020	17:35
Chloroform	< 2.00	ug/L	2/24/2020	17:35
Chloromethane	< 2.00	ug/L	2/24/2020	17:35
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:35
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:35
Cyclohexane	< 10.0	ug/L	2/24/2020	17:35
Dibromochloromethane	< 2.00	ug/L	2/24/2020	17:35
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	17:35
Ethylbenzene	< 2.00	ug/L	2/24/2020	17:35
Freon 113	< 2.00	ug/L	2/24/2020	17:35
Isopropylbenzene	**2.53**	ug/L	2/24/2020	17:35
m,p-Xylene	< 2.00	ug/L	2/24/2020	17:35
Methyl acetate	< 2.00	ug/L	2/24/2020	17:35
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	17:35
Methylcyclohexane	< 2.00	ug/L	2/24/2020	17:35
Methylene chloride	< 5.00	ug/L	2/24/2020	17:35
o-Xylene	< 2.00	ug/L	2/24/2020	17:35
Styrene	< 5.00	ug/L	2/24/2020	17:35
Tetrachloroethene	< 2.00	ug/L	2/24/2020	17:35
Toluene	< 2.00	ug/L	2/24/2020	17:35
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:35

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 17:35
Trichloroethene	< 2.00	ug/L			2/24/2020 17:35
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 17:35
Vinyl chloride	< 2.00	ug/L			2/24/2020 17:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.7**	74.3 - 138		2/24/2020 17:35
4-Bromofluorobenzene	**95.1**	66.3 - 125		2/24/2020 17:35
Pentafluorobenzene	**94.2**	87.4 - 111		2/24/2020 17:35
Toluene-D8	**105**	85.8 - 113		2/24/2020 17:35

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68650.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Trip Blank T-967
Lab Sample ID: 200801-12 **Date Sampled:** 2/18/2020
Matrix: Water **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 17:58
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:58
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:58
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 17:58
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 17:58
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:58
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 17:58
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:58
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:58
1,4-Dioxane	< 20.0	ug/L		2/24/2020 17:58
2-Butanone	< 10.0	ug/L		2/24/2020 17:58
2-Hexanone	< 5.00	ug/L		2/24/2020 17:58
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 17:58
Acetone	< 10.0	ug/L		2/24/2020 17:58
Benzene	< 1.00	ug/L		2/24/2020 17:58
Bromochloromethane	< 5.00	ug/L		2/24/2020 17:58
Bromodichloromethane	< 2.00	ug/L		2/24/2020 17:58
Bromoform	< 5.00	ug/L		2/24/2020 17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Trip Blank T-967
Lab Sample ID: 200801-12 **Date Sampled:** 2/18/2020
Matrix: Water **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	17:58
Carbon disulfide	< 2.00	ug/L	2/24/2020	17:58
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	17:58
Chlorobenzene	< 2.00	ug/L	2/24/2020	17:58
Chloroethane	< 2.00	ug/L	2/24/2020	17:58
Chloroform	< 2.00	ug/L	2/24/2020	17:58
Chloromethane	< 2.00	ug/L	2/24/2020	17:58
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:58
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:58
Cyclohexane	< 10.0	ug/L	2/24/2020	17:58
Dibromochloromethane	< 2.00	ug/L	2/24/2020	17:58
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	17:58
Ethylbenzene	< 2.00	ug/L	2/24/2020	17:58
Freon 113	< 2.00	ug/L	2/24/2020	17:58
Isopropylbenzene	< 2.00	ug/L	2/24/2020	17:58
m,p-Xylene	< 2.00	ug/L	2/24/2020	17:58
Methyl acetate	< 2.00	ug/L	2/24/2020	17:58
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	17:58
Methylcyclohexane	< 2.00	ug/L	2/24/2020	17:58
Methylene chloride	< 5.00	ug/L	2/24/2020	17:58
o-Xylene	< 2.00	ug/L	2/24/2020	17:58
Styrene	< 5.00	ug/L	2/24/2020	17:58
Tetrachloroethene	< 2.00	ug/L	2/24/2020	17:58
Toluene	< 2.00	ug/L	2/24/2020	17:58
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Trip Blank T-967
Lab Sample ID: 200801-12 **Date Sampled:** 2/18/2020
Matrix: Water **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:58
Trichloroethene	< 2.00	ug/L	2/24/2020	17:58
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	17:58
Vinyl chloride	< 2.00	ug/L	2/24/2020	17:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.8**	74.3 - 138		2/24/2020	17:58
4-Bromofluorobenzene	**77.5**	66.3 - 125		2/24/2020	17:58
Pentafluorobenzene	**95.2**	87.4 - 111		2/24/2020	17:58
Toluene-D8	**90.8**	85.8 - 113		2/24/2020	17:58

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68651.D

Report Prepared Tuesday, March 3, 2020

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. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform 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 th 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.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

1062
3
eem 2/21/2020

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	206801
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Email: alexandra.zobel@cityofrochester.gov
PHONE:	585-428-7094	PHONE:		
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 20005141

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
2/20/2020	1140		X	MW-8	GW	4	X	X		01
↓	1300		X	MW-2	↓	4	X	X		02
↓	1540		X	MW-11	↓	4	X	X		03
2/21/2020	920		X	MW-15R MS/MSD	↓	~~3~~ 9 (SJ 2/21/2020)	X	X		04
↓	NA		X	Blind Duplicate	↓	3	X	X		05
↓	1050		X	MW-9R1	↓	3	X	X		06
↓	1130		X	MW-16	↓	3	X	X		07
↓	1330		X	MW-4	↓	3	X	X		08
↓	1430		X	MW-7R	↓	3	X	X		09
↓	1515		X	MW-1	↓	3	X	X	5°C iced 2/21/2020 1629	10

No custody seals client delivered MollyNail 2/21/2020

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

	Signature	Date/Time
Sampled By	Alexandra Zobel	2/20-2/21
Relinquished By	A. Zobel	2/21/2020 1625
Received By	[signature]	2/21/2020 1625
Received @ Lab By	MollyNail	2/21/2020 1629

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

2 of 3

ee
W
2/21/2020

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	200801
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 20005141

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
2/21/20	1555		X	MW-3	GW	3	X	X		11
2/18/2020				Trip Blank T967 MW-2/21/2020	W	1	X			12

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	☒	Batch QC	☐	Basic EDD ☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☐
Rush 2 day	☐	Category B	☒	
Rush 1 day	☐			
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed: ☐

Alexandra Zobel — Sampled By — Date/Time 2/20-2/21

A. Zobel — Relinquished By — Date/Time 2/21/20 @ 16 25

Received By — Date/Time 2/21/2020 1625

Received @ Lab By — Date/Time 2/21/2020 1629

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: City of Rock

Lab Project ID:

Completed by: MollyKail

Date: 2/21/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		SVOA
Comments			
Preservation	VOA		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	5'c iced		
Compliant Sample Quantity/Type	X		
Comments			

APPENDIX D:

INSTITUTIONAL AND ENGINEERING

CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. B00129

Site Name 1200 E. Main Street

Site Address: 1200 E. Main Street Zip Code: 14609-
City/Town: Rochester
County: Monroe
Site Acreage: 0.622

Reporting Period: February 11, 2019 to June 11, 2020

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	X	☐

Note: 60 Day Advance Notification for Change of Use Submitted April 1, 2020. Change of Use approved by the NYSDEC on June 17, 2020

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. B00129 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
106.76-1-44	City of Rochester	Ground Water Use Restriction Landuse Restriction Site Management Plan Monitoring Plan O&M Plan Soil Management Plan Building Use Restriction IC/EC Plan

Environmental Easement:
The property may be used for commercial or industrial uses.
The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Monroe County Department of Health to render it safe for use as drinking water or for industrial purpose, and the user must first notify and obtain written approval to do so from the NYSDEC.
A Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
106.76-1-44	Vapor Mitigation Groundwater Treatment System Air Sparging/Soil Vapor Extraction

Exposure to remaining groundwater contamination at the Site is prevented by continued operation and maintenance of an oxygen injection system and soil vapor extraction trench.

NYSDEC-approved removal of Groundwater Treatment System/Soil Vapor Extraction on March 18, 2019. Refer to Appendix F for the NYSDEC-approval letter.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted 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), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

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.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative | Date

IC CERTIFICATIONS
SITE NO. B00129

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 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.

I Joseph Biondolillo (print name) at City of Rochester, City Hall, Room 300B, 30 Church St., Rochester, NY 14614 (print business address)

am certifying as Associate Environmental Specialist - Representative of Owner, (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Joseph Biondolillo
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

7-10-2020
Date

IC/EC CERTIFICATIONS

Box 7

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.

I Robert Switala (print name) at 2665 Corning Road, Horseheads, NY 14845 (print business address),

am certifying as a for the Remedial Party (Owner or Remedial Party)

Signature of , for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

July 9, 2020
Date

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

APPENDIX E:

1200 EAST MAIN STREET

QUARTERLY REPORTS 2019- 2020

City of Rochester

Office of the Commissioner
Department of Environmental Services
City Hall Room 300B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov

Division of
Environmental Quality

May 29, 2019

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, NY 14414-9516
Attn: Charlotte Theobald

Re: Quarterly Report
1200 East Main Street
Site No.: B00129

Dear Ms. Theobald,

The City of Rochester's Division of Environmental Quality conducted the first of the quarterly post-remediation groundwater monitoring at the 1200 East Main Street site (Site) on May 2nd, 2019. Groundwater samples were collected using low-flow sampling techniques in accordance with Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Table 1.1 – May, 2019 VOC Detections

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5 *
Date	May-19	May-19	May-19	May-19	May-19	May-19	May-19	May-19	May-19	May-19	
TCL VOCs (ug/L)											
Benzene	**7.27**	ND (1.00)	**2.45**	**0.68**	**2.72**	**1.12**	ND (1.00)	ND (1.00)	**3.85**	ND (1.00)	1.0
Cyclohexane	**31.8**	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	NA
Ethylbenzene	**73.8**	ND (2.00)	**2.01**	**5.05**	**26.9**	ND (2.00)	ND (2.00)	**4.72**	**45.3**	ND (2.00)	5.0
Isopropylbenzene	**4.02**	ND (2.00)	**4.18**	**1.45**	**2.35**	ND (2.00)	ND (2.00)	ND (2.00)	**1.73**	ND (2.00)	5.0
m,p-Xylene	**41.1**	ND (2.00)	ND (2.00)	**1.02**	**28.8**	ND (2.00)	ND (2.00)	**2.62**	**29.5**	ND (2.00)	5.0
MTBE	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**1.56**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	10.0
Methylcyclohexane	**8.77**	ND (2.00)	ND (2.00)	ND (2.00)	**1.52**	ND (2.00)	ND (2.00)	ND (2.00)	**1.71**	ND (2.00)	NA
o-Xylene	**5.02**	ND (2.00)	ND (2.00)	ND (2.00)	**3.24**	ND (2.00)	ND (2.00)	ND (2.00)	**1.38**	ND (2.00)	5.0
Tolulene	**1.4**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	5.0
Total VOCs	**173.18**	**0.00**	**8.64**	**8.20**	**65.53**	**2.68**	**0.00**	**7.34**	**83.47**	**0.00**	NA

Note:
* **Bold & underlined** font denotes a detection exceeding NYSDEC Part 703.5 Groundwater standards.

Table 1.2 – May, 2019 SVOC Detections

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5
Date	May-19	May-19	May-19	May-19	May-19	May-19	May-19	May-19	May-19	May-19	
TCL SVOCs (ug/L)											
Napthalene	**8.08**	ND (10.0)	ND (9.57)	ND (9.54)	**10.3**	ND (9.62)	ND (9.57)	ND (9.53)	**6.34**	ND (9.53)	**10**
2-Methylnapthalene	ND (9.54)	ND (10.0)	ND (9.57)	ND (9.54)	**9.29**	ND (9.62)	ND (9.57)	ND (9.53)	ND (9.71)	ND (9.53)	**NA**
Total SVOCs	**8.08**	0.00	0.00	0.00	**19.59**	0.00	0.00	0.00	**6.34**	0.00	**NA**

Note:
* **Bold & underlined** font denotes a SVOC detection exceeding NYSDEC Part 703.5 Groundwater standards.

The detections summarized above, when compared to the historical groundwater data (refer to Tables 2.1-2.2), demonstrate that total VOCs were reduced in all except two (2) of the monitoring wells and that Benzene was detected at levels that exceed the groundwater standard for Benzene per NYSDEC Part 703.5 in five (5) out of the eleven (11) monitoring wells that were tested during the first quarterly post-remediation sampling event.

Table 2.1 – Historical VOC Totals

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16
Date	Total VOCs										
Nov-16	**163.08**	**13.80**	**30.60**	**701.30**	**112.98**	**59.28**	ND<5.0		**16.90**	**2.00**	**0.98**
Mar-17	**305.10**	ND<5.0	**43.45**	**122.50**	**32.40**	ND<5.0	ND<5.0	ND<5.0	**26.70**	**222.30**	**2.30**
Aug-17	**246.60**	ND<10.0	**29.81**	**32.27**	**21.16**	ND<10.0	ND<10.0		**63.69**	**182.13**	ND<10.0
Nov-17	ND<10.0	ND<10.0	**5.84**	**8.74**	**15.34**	ND<10.0	ND<10.0		**28.54**	**164.00**	ND<10.0
Mar-18	**364.54**	ND<10.0	**6.28**	**135.91**	**199.30**	ND<10.0	ND<10.0	ND<10.0	**56.97**	**144.66**	ND<10.0
May-19	**173.18**	**0.00**	**8.64**	**8.20**	**65.53**	**2.68**	**0.00**	NA	**7.34**	**83.47**	**0.00**

Table 2.2 – Historical Benzene Levels

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5
Date	Benzene											
Nov-16	**0.86**	**1.80**	**20.70**	**47.60**	**53.90**	ND<1.0	ND<1.0		**2.80**	ND<1.0	ND<1.0	**1.0**
Mar-17	**13.00**	ND<1.0	**2.10**	**7.00**	**0.72**	ND<1.0	ND<1.0	ND<1.0	**2.10**	**4.80**	ND<1.0	**1.0**
Aug-17	**7.03**	ND<1.0	**5.65**	**1.76**	**1.12**	ND<1.0	ND<1.0		**4.85**	**4.68**	ND<1.0	**1.0**
Nov-17	ND<1.0	ND<1.0	**1.67**	**0.81**	ND<1.0	ND<1.0	ND<1.0		**2.30**	**4.70**	ND<1.0	**1.0**
Mar-18	**5.04**	ND<1.0	**0.99**	**7.87**	**1.83**	ND<1.0	ND<1.0	ND<1.0	**0.60**	**4.72**	ND<1.0	**1.0**
May-19	**7.27**	ND (1.00)	**2.45**	**0.68**	**2.72**	**1.12**	ND (1.00)	NA	ND (1.00)	**3.85**	ND (1.00)	**1.0**

Note:
* **Bold & underlined** font denotes a Benzene detection exceeding NYSDEC Part 703.5 Groundwater standards.

This was the first of four (4) quarterly post-remediation groundwater monitoring events. Please note that MW-10 was eliminated from the sampling program as the well was broken/non-operational at the time of sampling. Please also note that parameters were not collected for MW-2 before sampling as there was not enough water available. The next quarterly sampling event is expected to take place at the beginning of August, 2019.

Sincerely,
Division of Environmental Quality

A. Z. Martino

Alexandra Zobel Martino
Assistant Environmental Technician

Attachments:

Attachment 1: Q1 Groundwater Sampling Logs
Attachment 2: Laboratory Results
Attachment 3: Full Laboratory Package **(CD)**

G:\ENVQUAL\Alex\Projects\1200 E Main\Quarterly Reports\1200 East Main Q1 Report_5-29-2019.docx

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW1 **Date** 5/2/19

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel GT. 3 gals.

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1455	7.47	11.2	-53.1	5.46	1.29	—			
1505	7.21	10.7	-55.6	4.79	4.16				
1515	7.24	10.8	-71.4	3.33	1.64				
1525	7.21	10.8	-73.9	2.42	1.45				Sampled

Type of Samples Collected

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW3 **Date** 5/2/19

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel JMF

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1535	7.33	11.3	-76.9	2.30	2.01				
1545	7.28	11.1	-73.6	2.79	2.84				
1555	7.41	10.9	-79.9	2.80	1.99				
1605	7.33	10.5	-79.3	2.60	~~2.44~~	2.14			
1615	7.41	10.8	-77.7	2.26	1.83	- sample @ 16'6			

Type of Samples Collected

VOCs + SVOCs @ 16'6

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main Site 1200 E. Main Well No. MW 4 Date 05/02/2019

Well Depth Peristaltic Screen Length _____ Well Diameter 2" Casing Type PVC

Sampling Device _____ Tubing type _____ Water Level _____

Measuring Point _____ Other Infor _____

Sampling Personnel HZM

Start pumping @ 1147

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1150	6.85	11.0	-27.6	2.55	29.0				- petro odor, Gallionish type
									12" well stopped
back on → 1215	7.07	10.9	-41.2	2.54	0 NTU				producing water OFF
1250	7.25	11.2	-77.2	6.90	50.2				- recharging v. slowly
1310	7.30	11.2	-82.4	7.31	18.8				* Well pumped dry
1330	7.35	12.4	-79.8	6.76	44.9				

Type of Samples Collected

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log** * need to purge 3.0 gal

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW7R **Date** 05/02/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device peristaltic **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM

start pumping @ 12:15

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
12:25	7.23	11.5	25.9	6.42	36.4				water clear, no odors, pumping well
12:35	7.13	11.0	3.8	12.57	5.39				
12:45	7.15	10.9	24.3	13.02	2.55				
12:55	7.10	10.8	1.5	12.03	1.43				
13:05	7.09	11.1	33.2	12.39	1.36 A.Z.M				
~~13:15~~	~~STA~~		A.Z.M.		~~2.65~~	~~1.30~~			
13:23	7.13	11.1	17.2	12.35	1.30				

Type of Samples Collected SVOCs + VOCs + Blind Dup @ 13:30

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project _____ **Site** 1200 E. Main **Well No.** MW-8 **Date** 5/2/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM

start pumping @ 8:45

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
8:50	7.50	10.0	~~3.65~~ 85.6 AZM	73.2	7.24				
A.ZM 8:55 ~~9:00~~	7.39	9.0	87.2	8.31	1.15				
9:10	7.49	9.2	77.8	7.95	2.35				well pumping v. slow
9:20	7.24	9.2	-0.3	7.08	1.27				
9:40	7.16	9.3	-16.1	7.51	1.23				
9:50	7.16	9.4	-27.7	6.96	1.90				
10:05	7.28	9.7	-19.5	7.03	0.62				
10:15	7.23	10.0	-39.4	7.35	0.61				

Type of Samples Collected

~~SVOCs + VOCs~~ SVOCs started @ 10:20, VOAs @ 10:50

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW9R **Date** 5/2/19 5 gal

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM + JMF

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1405	7.70	11.2	-48.7	6.49	19.3				
1415	7.53	10.7	-38.0	4.90	11.8				
1425	7.41	10.5	-38.5	6.10	6.40				
1435	7.38	10.4	-34.3	6.79	2.75				
1445	7.37	10.5	-28.7	5.62	1.92				Sampled

Type of Samples Collected

VOCs + SVOCs @ 1445

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project _____ **Site** 1200 E. Main **Well No.** MW-11 **Date** 5/2/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

Start Pumping @ 912

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
922 ~~912~~	7.14	9.3	-50.7	1.65	6.30				- purge water black sediment
AZM ~~935~~	~~8.9~~				~~7.54~~				
935	7.09	8.9	-54.8	3.43	7.54				
945	7.00	9.0	-58.9	4.03	5.51				
955	7.48	9.2	-64.4	3.01	6.77				
1018 ~~1025~~	7.31	9.4	-72.7	2.43	4.21				
1023	7.21	9.5	-78.0	2.16	5.55				
1035	7.04	9.5	-65.8	2.37	9.60				
1045	7.06	9.4	-63.4	2.78	8.945				
1055	7.00	9.7	-61.5	2.50	9.19				

Type of Samples Collected

SVOCs & VOCs, ~~S~~ AZM, MS + MSD @ 1120

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log** purge volume = 6 gal

Project 200E Main **Site** 200E Main **Well No.** MW 15R **Date** 5/2/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started purging @ 15^{00}

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15^{05}	7.30	11.4	6.8	4.20	15.3				
15^{15}	7.17	10.5	40.4	4.77	3.72				
15^{25}	7.11	11.0	56.5	3.04	1.24				
15^{35}	7.09	10.8	53.6	29.8	1.47				- sampled

Type of Samples Collected SVOCs + VOCs @ 15^{35}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** 1200 E. Main **Well No.** MW16 **Date** 5/2/19 7gal

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device _____ **Tubing type** _____ **Water Level** _____

Measuring Point _____ **Other Infor** _____

Sampling Personnel AZM + JMF

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1400	7.85	11.4	-55.7	2.36	668				
1410	7.53	11.8	-57.7	4.78	138				
1420	7.27	11.1	-42.4	3.20	49.8				
1430	7.28	10.7	-38.4	3.18	21.8				
1440	7.31	10.9	-26.4	3.73	8.85				
1445	- sampled								

Type of Samples Collected SVOCs + VOCs @ 1445

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		5/4/2019 01:59
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,2,4-Trichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,2-Dichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,3-Dichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
1,4-Dichlorobenzene	< 10.0	ug/L		5/4/2019 01:59
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		5/4/2019 01:59
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		5/4/2019 01:59
2,4,5-Trichlorophenol	< 20.0	ug/L		5/4/2019 01:59
2,4,6-Trichlorophenol	< 10.0	ug/L		5/4/2019 01:59
2,4-Dichlorophenol	< 10.0	ug/L		5/4/2019 01:59
2,4-Dimethylphenol	< 20.0	ug/L		5/4/2019 01:59
2,4-Dinitrophenol	< 20.0	ug/L		5/4/2019 01:59
2,4-Dinitrotoluene	< 10.0	ug/L		5/4/2019 01:59
2,6-Dinitrotoluene	< 10.0	ug/L		5/4/2019 01:59
2-Chloronaphthalene	< 10.0	ug/L		5/4/2019 01:59
2-Chlorophenol	< 10.0	ug/L		5/4/2019 01:59
2-Methylnapthalene	< 10.0	ug/L		5/4/2019 01:59
2-Methylphenol	< 10.0	ug/L		5/4/2019 01:59
2-Nitroaniline	< 20.0	ug/L		5/4/2019 01:59
2-Nitrophenol	< 10.0	ug/L		5/4/2019 01:59
3&4-Methylphenol	< 10.0	ug/L		5/4/2019 01:59
3,3'-Dichlorobenzidine	< 10.0	ug/L		5/4/2019 01:59
3-Nitroaniline	< 20.0	ug/L		5/4/2019 01:59
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		5/4/2019 01:59
4-Bromophenyl phenyl ether	< 10.0	ug/L		5/4/2019 01:59
4-Chloro-3-methylphenol	< 10.0	ug/L		5/4/2019 01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 10.0	ug/L	5/4/2019	01:59
4-Chlorophenyl phenyl ether	< 10.0	ug/L	5/4/2019	01:59
4-Nitroaniline	< 20.0	ug/L	5/4/2019	01:59
4-Nitrophenol	< 20.0	ug/L	5/4/2019	01:59
Acenaphthene	< 10.0	ug/L	5/4/2019	01:59
Acenaphthylene	< 10.0	ug/L	5/4/2019	01:59
Acetophenone	< 10.0	ug/L	5/4/2019	01:59
Anthracene	< 10.0	ug/L	5/4/2019	01:59
Atrazine	< 10.0	ug/L	5/4/2019	01:59
Benzaldehyde	< 10.0	ug/L	5/4/2019	01:59
Benzo (a) anthracene	< 10.0	ug/L	5/4/2019	01:59
Benzo (a) pyrene	< 10.0	ug/L	5/4/2019	01:59
Benzo (b) fluoranthene	< 10.0	ug/L	5/4/2019	01:59
Benzo (g,h,i) perylene	< 10.0	ug/L	5/4/2019	01:59
Benzo (k) fluoranthene	< 10.0	ug/L	5/4/2019	01:59
Bis (2-chloroethoxy) methane	< 10.0	ug/L	5/4/2019	01:59
Bis (2-chloroethyl) ether	< 10.0	ug/L	5/4/2019	01:59
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	5/4/2019	01:59
Butylbenzylphthalate	< 10.0	ug/L	5/4/2019	01:59
Caprolactam	< 10.0	ug/L	5/4/2019	01:59
Carbazole	< 10.0	ug/L	5/4/2019	01:59
Chrysene	< 10.0	ug/L	5/4/2019	01:59
Dibenz (a,h) anthracene	< 10.0	ug/L	5/4/2019	01:59
Dibenzofuran	< 10.0	ug/L	5/4/2019	01:59
Diethyl phthalate	< 10.0	ug/L	5/4/2019	01:59
Dimethyl phthalate	< 20.0	ug/L	5/4/2019	01:59
Di-n-butyl phthalate	< 10.0	ug/L	5/4/2019	01:59
Di-n-octylphthalate	< 10.0	ug/L	5/4/2019	01:59
Fluoranthene	< 10.0	ug/L	5/4/2019	01:59
Fluorene	< 10.0	ug/L	5/4/2019	01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 10.0	ug/L	5/4/2019	01:59
Hexachlorobutadiene	< 10.0	ug/L	5/4/2019	01:59
Hexachlorocyclopentadiene	< 10.0	ug/L	5/4/2019	01:59
Hexachloroethane	< 10.0	ug/L	5/4/2019	01:59
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	5/4/2019	01:59
Isophorone	< 10.0	ug/L	5/4/2019	01:59
Naphthalene	< 10.0	ug/L	5/4/2019	01:59
Nitrobenzene	< 10.0	ug/L	5/4/2019	01:59
N-Nitroso-di-n-propylamine	< 10.0	ug/L	5/4/2019	01:59
N-Nitrosodiphenylamine	< 10.0	ug/L	5/4/2019	01:59
Pentachlorophenol	< 20.0	ug/L	5/4/2019	01:59
Phenanthrene	< 10.0	ug/L	5/4/2019	01:59
Phenol	< 10.0	ug/L	5/4/2019	01:59
Pyrene	< 10.0	ug/L	5/4/2019	01:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.9**	47.9 - 130		5/4/2019	01:59
2-Fluorobiphenyl	**50.6**	30.8 - 101		5/4/2019	01:59
2-Fluorophenol	**42.4**	10 - 113		5/4/2019	01:59
Nitrobenzene-d5	**64.4**	48.6 - 102		5/4/2019	01:59
Phenol-d5	**30.5**	10 - 111		5/4/2019	01:59
Terphenyl-d14	**81.9**	57.2 - 111		5/4/2019	01:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36723.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 16:34
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:34
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:34
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 16:34
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 16:34
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:34
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 16:34
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 16:34
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:34
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:34
1,4-Dioxane	< 20.0	ug/L		5/9/2019 16:34
2-Butanone	< 10.0	ug/L		5/9/2019 16:34
2-Hexanone	< 5.00	ug/L		5/9/2019 16:34
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 16:34
Acetone	< 10.0	ug/L		5/9/2019 16:34
Benzene	< 1.00	ug/L		5/9/2019 16:34
Bromochloromethane	< 5.00	ug/L		5/9/2019 16:34
Bromodichloromethane	< 2.00	ug/L		5/9/2019 16:34
Bromoform	< 5.00	ug/L		5/9/2019 16:34
Bromomethane	< 2.00	ug/L		5/9/2019 16:34
Carbon disulfide	< 2.00	ug/L		5/9/2019 16:34
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 16:34
Chlorobenzene	< 2.00	ug/L		5/9/2019 16:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	16:34
Chloroform	< 2.00	ug/L	5/9/2019	16:34
Chloromethane	< 2.00	ug/L	5/9/2019	16:34
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	16:34
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	16:34
Cyclohexane	< 10.0	ug/L	5/9/2019	16:34
Dibromochloromethane	< 2.00	ug/L	5/9/2019	16:34
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	16:34
Ethylbenzene	< 2.00	ug/L	5/9/2019	16:34
Freon 113	< 2.00	ug/L	5/9/2019	16:34
Isopropylbenzene	< 2.00	ug/L	5/9/2019	16:34
m,p-Xylene	< 2.00	ug/L	5/9/2019	16:34
Methyl acetate	< 2.00	ug/L	5/9/2019	16:34
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	16:34
Methylcyclohexane	< 2.00	ug/L	5/9/2019	16:34
Methylene chloride	< 5.00	ug/L	5/9/2019	16:34
o-Xylene	< 2.00	ug/L	5/9/2019	16:34
Styrene	< 5.00	ug/L	5/9/2019	16:34
Tetrachloroethene	< 2.00	ug/L	5/9/2019	16:34
Toluene	< 2.00	ug/L	5/9/2019	16:34
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	16:34
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	16:34
Trichloroethene	< 2.00	ug/L	5/9/2019	16:34
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	16:34
Vinyl chloride	< 2.00	ug/L	5/9/2019	16:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 2
Lab Sample ID: 191889-01 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**93.2**	71.4 - 133		5/9/2019	16:34
4-Bromofluorobenzene	**74.6**	61.7 - 126		5/9/2019	16:34
Pentafluorobenzene	**96.8**	87.4 - 109		5/9/2019	16:34
Toluene-D8	**89.4**	82.3 - 112		5/9/2019	16:34

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60724.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 8		
Lab Sample ID:	191889-02	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.62	ug/L		5/4/2019 02:29
1,2,4,5-Tetrachlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,2,4-Trichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,2-Dichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,3-Dichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
1,4-Dichlorobenzene	< 9.62	ug/L		5/4/2019 02:29
2,2-Oxybis (1-chloropropane)	< 9.62	ug/L		5/4/2019 02:29
2,3,4,6-Tetrachlorophenol	< 9.62	ug/L		5/4/2019 02:29
2,4,5-Trichlorophenol	< 19.2	ug/L		5/4/2019 02:29
2,4,6-Trichlorophenol	< 9.62	ug/L		5/4/2019 02:29
2,4-Dichlorophenol	< 9.62	ug/L		5/4/2019 02:29
2,4-Dimethylphenol	< 19.2	ug/L		5/4/2019 02:29
2,4-Dinitrophenol	< 19.2	ug/L		5/4/2019 02:29
2,4-Dinitrotoluene	< 9.62	ug/L		5/4/2019 02:29
2,6-Dinitrotoluene	< 9.62	ug/L		5/4/2019 02:29
2-Chloronaphthalene	< 9.62	ug/L		5/4/2019 02:29
2-Chlorophenol	< 9.62	ug/L		5/4/2019 02:29
2-Methylnapthalene	< 9.62	ug/L		5/4/2019 02:29
2-Methylphenol	< 9.62	ug/L		5/4/2019 02:29
2-Nitroaniline	< 19.2	ug/L		5/4/2019 02:29
2-Nitrophenol	< 9.62	ug/L		5/4/2019 02:29
3&4-Methylphenol	< 9.62	ug/L		5/4/2019 02:29
3,3'-Dichlorobenzidine	< 9.62	ug/L		5/4/2019 02:29
3-Nitroaniline	< 19.2	ug/L		5/4/2019 02:29
4,6-Dinitro-2-methylphenol	< 19.2	ug/L		5/4/2019 02:29
4-Bromophenyl phenyl ether	< 9.62	ug/L		5/4/2019 02:29
4-Chloro-3-methylphenol	< 9.62	ug/L		5/4/2019 02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.62	ug/L	5/4/2019	02:29
4-Chlorophenyl phenyl ether	< 9.62	ug/L	5/4/2019	02:29
4-Nitroaniline	< 19.2	ug/L	5/4/2019	02:29
4-Nitrophenol	< 19.2	ug/L	5/4/2019	02:29
Acenaphthene	< 9.62	ug/L	5/4/2019	02:29
Acenaphthylene	< 9.62	ug/L	5/4/2019	02:29
Acetophenone	< 9.62	ug/L	5/4/2019	02:29
Anthracene	< 9.62	ug/L	5/4/2019	02:29
Atrazine	< 9.62	ug/L	5/4/2019	02:29
Benzaldehyde	< 9.62	ug/L	5/4/2019	02:29
Benzo (a) anthracene	< 9.62	ug/L	5/4/2019	02:29
Benzo (a) pyrene	< 9.62	ug/L	5/4/2019	02:29
Benzo (b) fluoranthene	< 9.62	ug/L	5/4/2019	02:29
Benzo (g,h,i) perylene	< 9.62	ug/L	5/4/2019	02:29
Benzo (k) fluoranthene	< 9.62	ug/L	5/4/2019	02:29
Bis (2-chloroethoxy) methane	< 9.62	ug/L	5/4/2019	02:29
Bis (2-chloroethyl) ether	< 9.62	ug/L	5/4/2019	02:29
Bis (2-ethylhexyl) phthalate	< 9.62	ug/L	5/4/2019	02:29
Butylbenzylphthalate	< 9.62	ug/L	5/4/2019	02:29
Caprolactam	< 9.62	ug/L	5/4/2019	02:29
Carbazole	< 9.62	ug/L	5/4/2019	02:29
Chrysene	< 9.62	ug/L	5/4/2019	02:29
Dibenz (a,h) anthracene	< 9.62	ug/L	5/4/2019	02:29
Dibenzofuran	< 9.62	ug/L	5/4/2019	02:29
Diethyl phthalate	< 9.62	ug/L	5/4/2019	02:29
Dimethyl phthalate	< 19.2	ug/L	5/4/2019	02:29
Di-n-butyl phthalate	< 9.62	ug/L	5/4/2019	02:29
Di-n-octylphthalate	< 9.62	ug/L	5/4/2019	02:29
Fluoranthene	< 9.62	ug/L	5/4/2019	02:29
Fluorene	< 9.62	ug/L	5/4/2019	02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.62	ug/L	5/4/2019	02:29
Hexachlorobutadiene	< 9.62	ug/L	5/4/2019	02:29
Hexachlorocyclopentadiene	< 9.62	ug/L	5/4/2019	02:29
Hexachloroethane	< 9.62	ug/L	5/4/2019	02:29
Indeno (1,2,3-cd) pyrene	< 9.62	ug/L	5/4/2019	02:29
Isophorone	< 9.62	ug/L	5/4/2019	02:29
Naphthalene	< 9.62	ug/L	5/4/2019	02:29
Nitrobenzene	< 9.62	ug/L	5/4/2019	02:29
N-Nitroso-di-n-propylamine	< 9.62	ug/L	5/4/2019	02:29
N-Nitrosodiphenylamine	< 9.62	ug/L	5/4/2019	02:29
Pentachlorophenol	< 19.2	ug/L	5/4/2019	02:29
Phenanthrene	< 9.62	ug/L	5/4/2019	02:29
Phenol	< 9.62	ug/L	5/4/2019	02:29
Pyrene	< 9.62	ug/L	5/4/2019	02:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**88.1**	47.9 - 130		5/4/2019	02:29
2-Fluorobiphenyl	**43.3**	30.8 - 101		5/4/2019	02:29
2-Fluorophenol	**46.3**	10 - 113		5/4/2019	02:29
Nitrobenzene-d5	**70.9**	48.6 - 102		5/4/2019	02:29
Phenol-d5	**31.8**	10 - 111		5/4/2019	02:29
Terphenyl-d14	**86.6**	57.2 - 111		5/4/2019	02:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36724.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 16:57
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:57
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:57
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 16:57
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 16:57
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:57
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 16:57
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 16:57
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:57
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:57
1,4-Dioxane	< 20.0	ug/L		5/9/2019 16:57
2-Butanone	< 10.0	ug/L		5/9/2019 16:57
2-Hexanone	< 5.00	ug/L		5/9/2019 16:57
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 16:57
Acetone	< 10.0	ug/L		5/9/2019 16:57
Benzene	**1.12**	ug/L		5/9/2019 16:57
Bromochloromethane	< 5.00	ug/L		5/9/2019 16:57
Bromodichloromethane	< 2.00	ug/L		5/9/2019 16:57
Bromoform	< 5.00	ug/L		5/9/2019 16:57
Bromomethane	< 2.00	ug/L		5/9/2019 16:57
Carbon disulfide	< 2.00	ug/L		5/9/2019 16:57
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 16:57
Chlorobenzene	< 2.00	ug/L		5/9/2019 16:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	16:57
Chloroform	< 2.00	ug/L		5/9/2019	16:57
Chloromethane	< 2.00	ug/L		5/9/2019	16:57
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:57
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:57
Cyclohexane	< 10.0	ug/L		5/9/2019	16:57
Dibromochloromethane	< 2.00	ug/L		5/9/2019	16:57
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	16:57
Ethylbenzene	< 2.00	ug/L		5/9/2019	16:57
Freon 113	< 2.00	ug/L		5/9/2019	16:57
Isopropylbenzene	< 2.00	ug/L		5/9/2019	16:57
m,p-Xylene	< 2.00	ug/L		5/9/2019	16:57
Methyl acetate	< 2.00	ug/L		5/9/2019	16:57
Methyl tert-butyl Ether	**1.56**	ug/L	J	5/9/2019	16:57
Methylcyclohexane	< 2.00	ug/L		5/9/2019	16:57
Methylene chloride	< 5.00	ug/L		5/9/2019	16:57
o-Xylene	< 2.00	ug/L		5/9/2019	16:57
Styrene	< 5.00	ug/L		5/9/2019	16:57
Tetrachloroethene	< 2.00	ug/L		5/9/2019	16:57
Toluene	< 2.00	ug/L		5/9/2019	16:57
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:57
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:57
Trichloroethene	< 2.00	ug/L		5/9/2019	16:57
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	16:57
Vinyl chloride	< 2.00	ug/L		5/9/2019	16:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 8
Lab Sample ID: 191889-02 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**100**	71.4 - 133		5/9/2019	16:57
4-Bromofluorobenzene	**76.4**	61.7 - 126		5/9/2019	16:57
Pentafluorobenzene	**97.1**	87.4 - 109		5/9/2019	16:57
Toluene-D8	**84.3**	82.3 - 112		5/9/2019	16:57

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60725.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.53	ug/L		5/4/2019 02:59
1,2,4,5-Tetrachlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,2,4-Trichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,2-Dichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,3-Dichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
1,4-Dichlorobenzene	< 9.53	ug/L		5/4/2019 02:59
2,2-Oxybis (1-chloropropane)	< 9.53	ug/L		5/4/2019 02:59
2,3,4,6-Tetrachlorophenol	< 9.53	ug/L		5/4/2019 02:59
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 02:59
2,4,6-Trichlorophenol	< 9.53	ug/L		5/4/2019 02:59
2,4-Dichlorophenol	< 9.53	ug/L		5/4/2019 02:59
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 02:59
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 02:59
2,4-Dinitrotoluene	< 9.53	ug/L		5/4/2019 02:59
2,6-Dinitrotoluene	< 9.53	ug/L		5/4/2019 02:59
2-Chloronaphthalene	< 9.53	ug/L		5/4/2019 02:59
2-Chlorophenol	< 9.53	ug/L		5/4/2019 02:59
2-Methylnapthalene	< 9.53	ug/L		5/4/2019 02:59
2-Methylphenol	< 9.53	ug/L		5/4/2019 02:59
2-Nitroaniline	< 19.1	ug/L		5/4/2019 02:59
2-Nitrophenol	< 9.53	ug/L		5/4/2019 02:59
3&4-Methylphenol	< 9.53	ug/L		5/4/2019 02:59
3,3'-Dichlorobenzidine	< 9.53	ug/L		5/4/2019 02:59
3-Nitroaniline	< 19.1	ug/L		5/4/2019 02:59
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 02:59
4-Bromophenyl phenyl ether	< 9.53	ug/L		5/4/2019 02:59
4-Chloro-3-methylphenol	< 9.53	ug/L		5/4/2019 02:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.53	ug/L	5/4/2019	02:59
4-Chlorophenyl phenyl ether	< 9.53	ug/L	5/4/2019	02:59
4-Nitroaniline	< 19.1	ug/L	5/4/2019	02:59
4-Nitrophenol	< 19.1	ug/L	5/4/2019	02:59
Acenaphthene	< 9.53	ug/L	5/4/2019	02:59
Acenaphthylene	< 9.53	ug/L	5/4/2019	02:59
Acetophenone	< 9.53	ug/L	5/4/2019	02:59
Anthracene	< 9.53	ug/L	5/4/2019	02:59
Atrazine	< 9.53	ug/L	5/4/2019	02:59
Benzaldehyde	< 9.53	ug/L	5/4/2019	02:59
Benzo (a) anthracene	< 9.53	ug/L	5/4/2019	02:59
Benzo (a) pyrene	< 9.53	ug/L	5/4/2019	02:59
Benzo (b) fluoranthene	< 9.53	ug/L	5/4/2019	02:59
Benzo (g,h,i) perylene	< 9.53	ug/L	5/4/2019	02:59
Benzo (k) fluoranthene	< 9.53	ug/L	5/4/2019	02:59
Bis (2-chloroethoxy) methane	< 9.53	ug/L	5/4/2019	02:59
Bis (2-chloroethyl) ether	< 9.53	ug/L	5/4/2019	02:59
Bis (2-ethylhexyl) phthalate	< 9.53	ug/L	5/4/2019	02:59
Butylbenzylphthalate	< 9.53	ug/L	5/4/2019	02:59
Caprolactam	< 9.53	ug/L	5/4/2019	02:59
Carbazole	< 9.53	ug/L	5/4/2019	02:59
Chrysene	< 9.53	ug/L	5/4/2019	02:59
Dibenz (a,h) anthracene	< 9.53	ug/L	5/4/2019	02:59
Dibenzofuran	< 9.53	ug/L	5/4/2019	02:59
Diethyl phthalate	< 9.53	ug/L	5/4/2019	02:59
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	02:59
Di-n-butyl phthalate	< 9.53	ug/L	5/4/2019	02:59
Di-n-octylphthalate	< 9.53	ug/L	5/4/2019	02:59
Fluoranthene	< 9.53	ug/L	5/4/2019	02:59
Fluorene	< 9.53	ug/L	5/4/2019	02:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.53	ug/L	5/4/2019	02:59
Hexachlorobutadiene	< 9.53	ug/L	5/4/2019	02:59
Hexachlorocyclopentadiene	< 9.53	ug/L	5/4/2019	02:59
Hexachloroethane	< 9.53	ug/L	5/4/2019	02:59
Indeno (1,2,3-cd) pyrene	< 9.53	ug/L	5/4/2019	02:59
Isophorone	< 9.53	ug/L	5/4/2019	02:59
Naphthalene	< 9.53	ug/L	5/4/2019	02:59
Nitrobenzene	< 9.53	ug/L	5/4/2019	02:59
N-Nitroso-di-n-propylamine	< 9.53	ug/L	5/4/2019	02:59
N-Nitrosodiphenylamine	< 9.53	ug/L	5/4/2019	02:59
Pentachlorophenol	< 19.1	ug/L	5/4/2019	02:59
Phenanthrene	< 9.53	ug/L	5/4/2019	02:59
Phenol	< 9.53	ug/L	5/4/2019	02:59
Pyrene	< 9.53	ug/L	5/4/2019	02:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**82.6**	47.9 - 130		5/4/2019	02:59
2-Fluorobiphenyl	**35.2**	30.8 - 101		5/4/2019	02:59
2-Fluorophenol	**37.1**	10 - 113		5/4/2019	02:59
Nitrobenzene-d5	**62.9**	48.6 - 102		5/4/2019	02:59
Phenol-d5	**26.4**	10 - 111		5/4/2019	02:59
Terphenyl-d14	**80.6**	57.2 - 111		5/4/2019	02:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36725.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 15:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 15:49
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 15:49
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:49
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 15:49
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 15:49
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:49
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:49
1,4-Dioxane	< 20.0	ug/L		5/9/2019 15:49
2-Butanone	< 10.0	ug/L		5/9/2019 15:49
2-Hexanone	< 5.00	ug/L		5/9/2019 15:49
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 15:49
Acetone	< 10.0	ug/L		5/9/2019 15:49
Benzene	< 1.00	ug/L		5/9/2019 15:49
Bromochloromethane	< 5.00	ug/L		5/9/2019 15:49
Bromodichloromethane	< 2.00	ug/L		5/9/2019 15:49
Bromoform	< 5.00	ug/L		5/9/2019 15:49
Bromomethane	< 2.00	ug/L		5/9/2019 15:49
Carbon disulfide	< 2.00	ug/L		5/9/2019 15:49
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 15:49
Chlorobenzene	< 2.00	ug/L		5/9/2019 15:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	15:49
Chloroform	< 2.00	ug/L		5/9/2019	15:49
Chloromethane	< 2.00	ug/L		5/9/2019	15:49
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	15:49
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	15:49
Cyclohexane	< 10.0	ug/L		5/9/2019	15:49
Dibromochloromethane	< 2.00	ug/L		5/9/2019	15:49
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	15:49
Ethylbenzene	**4.72**	ug/L	M	5/9/2019	15:49
Freon 113	< 2.00	ug/L		5/9/2019	15:49
Isopropylbenzene	< 2.00	ug/L		5/9/2019	15:49
m,p-Xylene	**2.62**	ug/L		5/9/2019	15:49
Methyl acetate	< 2.00	ug/L		5/9/2019	15:49
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	15:49
Methylcyclohexane	< 2.00	ug/L		5/9/2019	15:49
Methylene chloride	< 5.00	ug/L		5/9/2019	15:49
o-Xylene	< 2.00	ug/L		5/9/2019	15:49
Styrene	< 5.00	ug/L		5/9/2019	15:49
Tetrachloroethene	< 2.00	ug/L		5/9/2019	15:49
Toluene	< 2.00	ug/L		5/9/2019	15:49
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	15:49
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	15:49
Trichloroethene	< 2.00	ug/L		5/9/2019	15:49
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	15:49
Vinyl chloride	< 2.00	ug/L		5/9/2019	15:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 11
Lab Sample ID: 191889-03 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**99.7**	71.4 - 133		5/9/2019	15:49
4-Bromofluorobenzene	**87.3**	61.7 - 126		5/9/2019	15:49
Pentafluorobenzene	**90.4**	87.4 - 109		5/9/2019	15:49
Toluene-D8	**88.2**	82.3 - 112		5/9/2019	15:49

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60722.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.67	ug/L		5/4/2019 04:29
1,2,4,5-Tetrachlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,2,4-Trichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,2-Dichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,3-Dichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
1,4-Dichlorobenzene	< 9.67	ug/L		5/4/2019 04:29
2,2-Oxybis (1-chloropropane)	< 9.67	ug/L		5/4/2019 04:29
2,3,4,6-Tetrachlorophenol	< 9.67	ug/L		5/4/2019 04:29
2,4,5-Trichlorophenol	< 19.3	ug/L		5/4/2019 04:29
2,4,6-Trichlorophenol	< 9.67	ug/L		5/4/2019 04:29
2,4-Dichlorophenol	< 9.67	ug/L		5/4/2019 04:29
2,4-Dimethylphenol	< 19.3	ug/L		5/4/2019 04:29
2,4-Dinitrophenol	< 19.3	ug/L		5/4/2019 04:29
2,4-Dinitrotoluene	< 9.67	ug/L		5/4/2019 04:29
2,6-Dinitrotoluene	< 9.67	ug/L		5/4/2019 04:29
2-Chloronaphthalene	< 9.67	ug/L		5/4/2019 04:29
2-Chlorophenol	< 9.67	ug/L		5/4/2019 04:29
2-Methylnapthalene	**9.29**	ug/L	J	5/4/2019 04:29
2-Methylphenol	< 9.67	ug/L		5/4/2019 04:29
2-Nitroaniline	< 19.3	ug/L		5/4/2019 04:29
2-Nitrophenol	< 9.67	ug/L		5/4/2019 04:29
3&4-Methylphenol	< 9.67	ug/L		5/4/2019 04:29
3,3'-Dichlorobenzidine	< 9.67	ug/L		5/4/2019 04:29
3-Nitroaniline	< 19.3	ug/L		5/4/2019 04:29
4,6-Dinitro-2-methylphenol	< 19.3	ug/L		5/4/2019 04:29
4-Bromophenyl phenyl ether	< 9.67	ug/L		5/4/2019 04:29
4-Chloro-3-methylphenol	< 9.67	ug/L		5/4/2019 04:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.67	ug/L	5/4/2019	04:29
4-Chlorophenyl phenyl ether	< 9.67	ug/L	5/4/2019	04:29
4-Nitroaniline	< 19.3	ug/L	5/4/2019	04:29
4-Nitrophenol	< 19.3	ug/L	5/4/2019	04:29
Acenaphthene	< 9.67	ug/L	5/4/2019	04:29
Acenaphthylene	< 9.67	ug/L	5/4/2019	04:29
Acetophenone	< 9.67	ug/L	5/4/2019	04:29
Anthracene	< 9.67	ug/L	5/4/2019	04:29
Atrazine	< 9.67	ug/L	5/4/2019	04:29
Benzaldehyde	< 9.67	ug/L	5/4/2019	04:29
Benzo (a) anthracene	< 9.67	ug/L	5/4/2019	04:29
Benzo (a) pyrene	< 9.67	ug/L	5/4/2019	04:29
Benzo (b) fluoranthene	< 9.67	ug/L	5/4/2019	04:29
Benzo (g,h,i) perylene	< 9.67	ug/L	5/4/2019	04:29
Benzo (k) fluoranthene	< 9.67	ug/L	5/4/2019	04:29
Bis (2-chloroethoxy) methane	< 9.67	ug/L	5/4/2019	04:29
Bis (2-chloroethyl) ether	< 9.67	ug/L	5/4/2019	04:29
Bis (2-ethylhexyl) phthalate	< 9.67	ug/L	5/4/2019	04:29
Butylbenzylphthalate	< 9.67	ug/L	5/4/2019	04:29
Caprolactam	< 9.67	ug/L	5/4/2019	04:29
Carbazole	< 9.67	ug/L	5/4/2019	04:29
Chrysene	< 9.67	ug/L	5/4/2019	04:29
Dibenz (a,h) anthracene	< 9.67	ug/L	5/4/2019	04:29
Dibenzofuran	< 9.67	ug/L	5/4/2019	04:29
Diethyl phthalate	< 9.67	ug/L	5/4/2019	04:29
Dimethyl phthalate	< 19.3	ug/L	5/4/2019	04:29
Di-n-butyl phthalate	< 9.67	ug/L	5/4/2019	04:29
Di-n-octylphthalate	< 9.67	ug/L	5/4/2019	04:29
Fluoranthene	< 9.67	ug/L	5/4/2019	04:29
Fluorene	< 9.67	ug/L	5/4/2019	04:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.67	ug/L	5/4/2019	04:29
Hexachlorobutadiene	< 9.67	ug/L	5/4/2019	04:29
Hexachlorocyclopentadiene	< 9.67	ug/L	5/4/2019	04:29
Hexachloroethane	< 9.67	ug/L	5/4/2019	04:29
Indeno (1,2,3-cd) pyrene	< 9.67	ug/L	5/4/2019	04:29
Isophorone	< 9.67	ug/L	5/4/2019	04:29
Naphthalene	**10.3**	ug/L	5/4/2019	04:29
Nitrobenzene	< 9.67	ug/L	5/4/2019	04:29
N-Nitroso-di-n-propylamine	< 9.67	ug/L	5/4/2019	04:29
N-Nitrosodiphenylamine	< 9.67	ug/L	5/4/2019	04:29
Pentachlorophenol	< 19.3	ug/L	5/4/2019	04:29
Phenanthrene	< 9.67	ug/L	5/4/2019	04:29
Phenol	< 9.67	ug/L	5/4/2019	04:29
Pyrene	< 9.67	ug/L	5/4/2019	04:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.9**	47.9 - 130		5/4/2019	04:29
2-Fluorobiphenyl	**53.6**	30.8 - 101		5/4/2019	04:29
2-Fluorophenol	**41.7**	10 - 113		5/4/2019	04:29
Nitrobenzene-d5	**66.7**	48.6 - 102		5/4/2019	04:29
Phenol-d5	**28.7**	10 - 111		5/4/2019	04:29
Terphenyl-d14	**81.5**	57.2 - 111		5/4/2019	04:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36728.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 7R		
Lab Sample ID:	191889-04	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 17:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 17:20
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 17:20
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:20
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 17:20
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 17:20
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:20
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:20
1,4-Dioxane	< 20.0	ug/L		5/9/2019 17:20
2-Butanone	< 10.0	ug/L		5/9/2019 17:20
2-Hexanone	< 5.00	ug/L		5/9/2019 17:20
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 17:20
Acetone	< 10.0	ug/L		5/9/2019 17:20
Benzene	**2.72**	ug/L		5/9/2019 17:20
Bromochloromethane	< 5.00	ug/L		5/9/2019 17:20
Bromodichloromethane	< 2.00	ug/L		5/9/2019 17:20
Bromoform	< 5.00	ug/L		5/9/2019 17:20
Bromomethane	< 2.00	ug/L		5/9/2019 17:20
Carbon disulfide	< 2.00	ug/L		5/9/2019 17:20
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 17:20
Chlorobenzene	< 2.00	ug/L		5/9/2019 17:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	17:20
Chloroform	< 2.00	ug/L		5/9/2019	17:20
Chloromethane	< 2.00	ug/L		5/9/2019	17:20
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:20
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:20
Cyclohexane	< 10.0	ug/L		5/9/2019	17:20
Dibromochloromethane	< 2.00	ug/L		5/9/2019	17:20
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	17:20
Ethylbenzene	**26.9**	ug/L		5/9/2019	17:20
Freon 113	< 2.00	ug/L		5/9/2019	17:20
Isopropylbenzene	**2.35**	ug/L		5/9/2019	17:20
m,p-Xylene	**28.8**	ug/L		5/9/2019	17:20
Methyl acetate	< 2.00	ug/L		5/9/2019	17:20
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	17:20
Methylcyclohexane	**1.52**	ug/L	J	5/9/2019	17:20
Methylene chloride	< 5.00	ug/L		5/9/2019	17:20
o-Xylene	**3.24**	ug/L		5/9/2019	17:20
Styrene	< 5.00	ug/L		5/9/2019	17:20
Tetrachloroethene	< 2.00	ug/L		5/9/2019	17:20
Toluene	< 2.00	ug/L		5/9/2019	17:20
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:20
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:20
Trichloroethene	< 2.00	ug/L		5/9/2019	17:20
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	17:20
Vinyl chloride	< 2.00	ug/L		5/9/2019	17:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 7R
Lab Sample ID: 191889-04 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**95.4**	71.4 - 133		5/9/2019	17:20
4-Bromofluorobenzene	**93.3**	61.7 - 126		5/9/2019	17:20
Pentafluorobenzene	**97.0**	87.4 - 109		5/9/2019	17:20
Toluene-D8	**97.5**	82.3 - 112		5/9/2019	17:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60726.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.62	ug/L		5/4/2019 04:59
1,2,4,5-Tetrachlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,2,4-Trichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,2-Dichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,3-Dichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
1,4-Dichlorobenzene	< 9.62	ug/L		5/4/2019 04:59
2,2-Oxybis (1-chloropropane)	< 9.62	ug/L		5/4/2019 04:59
2,3,4,6-Tetrachlorophenol	< 9.62	ug/L		5/4/2019 04:59
2,4,5-Trichlorophenol	< 19.2	ug/L		5/4/2019 04:59
2,4,6-Trichlorophenol	< 9.62	ug/L		5/4/2019 04:59
2,4-Dichlorophenol	< 9.62	ug/L		5/4/2019 04:59
2,4-Dimethylphenol	< 19.2	ug/L		5/4/2019 04:59
2,4-Dinitrophenol	< 19.2	ug/L		5/4/2019 04:59
2,4-Dinitrotoluene	< 9.62	ug/L		5/4/2019 04:59
2,6-Dinitrotoluene	< 9.62	ug/L		5/4/2019 04:59
2-Chloronaphthalene	< 9.62	ug/L		5/4/2019 04:59
2-Chlorophenol	< 9.62	ug/L		5/4/2019 04:59
2-Methylnapthalene	**9.91**	ug/L		5/4/2019 04:59
2-Methylphenol	< 9.62	ug/L		5/4/2019 04:59
2-Nitroaniline	< 19.2	ug/L		5/4/2019 04:59
2-Nitrophenol	< 9.62	ug/L		5/4/2019 04:59
3&4-Methylphenol	< 9.62	ug/L		5/4/2019 04:59
3,3'-Dichlorobenzidine	< 9.62	ug/L		5/4/2019 04:59
3-Nitroaniline	< 19.2	ug/L		5/4/2019 04:59
4,6-Dinitro-2-methylphenol	< 19.2	ug/L		5/4/2019 04:59
4-Bromophenyl phenyl ether	< 9.62	ug/L		5/4/2019 04:59
4-Chloro-3-methylphenol	< 9.62	ug/L		5/4/2019 04:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.62	ug/L	5/4/2019	04:59
4-Chlorophenyl phenyl ether	< 9.62	ug/L	5/4/2019	04:59
4-Nitroaniline	< 19.2	ug/L	5/4/2019	04:59
4-Nitrophenol	< 19.2	ug/L	5/4/2019	04:59
Acenaphthene	< 9.62	ug/L	5/4/2019	04:59
Acenaphthylene	< 9.62	ug/L	5/4/2019	04:59
Acetophenone	< 9.62	ug/L	5/4/2019	04:59
Anthracene	< 9.62	ug/L	5/4/2019	04:59
Atrazine	< 9.62	ug/L	5/4/2019	04:59
Benzaldehyde	< 9.62	ug/L	5/4/2019	04:59
Benzo (a) anthracene	< 9.62	ug/L	5/4/2019	04:59
Benzo (a) pyrene	< 9.62	ug/L	5/4/2019	04:59
Benzo (b) fluoranthene	< 9.62	ug/L	5/4/2019	04:59
Benzo (g,h,i) perylene	< 9.62	ug/L	5/4/2019	04:59
Benzo (k) fluoranthene	< 9.62	ug/L	5/4/2019	04:59
Bis (2-chloroethoxy) methane	< 9.62	ug/L	5/4/2019	04:59
Bis (2-chloroethyl) ether	< 9.62	ug/L	5/4/2019	04:59
Bis (2-ethylhexyl) phthalate	< 9.62	ug/L	5/4/2019	04:59
Butylbenzylphthalate	< 9.62	ug/L	5/4/2019	04:59
Caprolactam	< 9.62	ug/L	5/4/2019	04:59
Carbazole	< 9.62	ug/L	5/4/2019	04:59
Chrysene	< 9.62	ug/L	5/4/2019	04:59
Dibenz (a,h) anthracene	< 9.62	ug/L	5/4/2019	04:59
Dibenzofuran	< 9.62	ug/L	5/4/2019	04:59
Diethyl phthalate	< 9.62	ug/L	5/4/2019	04:59
Dimethyl phthalate	< 19.2	ug/L	5/4/2019	04:59
Di-n-butyl phthalate	< 9.62	ug/L	5/4/2019	04:59
Di-n-octylphthalate	< 9.62	ug/L	5/4/2019	04:59
Fluoranthene	< 9.62	ug/L	5/4/2019	04:59
Fluorene	< 9.62	ug/L	5/4/2019	04:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.62	ug/L	5/4/2019	04:59
Hexachlorobutadiene	< 9.62	ug/L	5/4/2019	04:59
Hexachlorocyclopentadiene	< 9.62	ug/L	5/4/2019	04:59
Hexachloroethane	< 9.62	ug/L	5/4/2019	04:59
Indeno (1,2,3-cd) pyrene	< 9.62	ug/L	5/4/2019	04:59
Isophorone	< 9.62	ug/L	5/4/2019	04:59
Naphthalene	**11.3**	ug/L	5/4/2019	04:59
Nitrobenzene	< 9.62	ug/L	5/4/2019	04:59
N-Nitroso-di-n-propylamine	< 9.62	ug/L	5/4/2019	04:59
N-Nitrosodiphenylamine	< 9.62	ug/L	5/4/2019	04:59
Pentachlorophenol	< 19.2	ug/L	5/4/2019	04:59
Phenanthrene	< 9.62	ug/L	5/4/2019	04:59
Phenol	< 9.62	ug/L	5/4/2019	04:59
Pyrene	< 9.62	ug/L	5/4/2019	04:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**92.5**	47.9 - 130		5/4/2019	04:59
2-Fluorobiphenyl	**54.2**	30.8 - 101		5/4/2019	04:59
2-Fluorophenol	**45.2**	10 - 113		5/4/2019	04:59
Nitrobenzene-d5	**73.1**	48.6 - 102		5/4/2019	04:59
Phenol-d5	**31.2**	10 - 111		5/4/2019	04:59
Terphenyl-d14	**87.1**	57.2 - 111		5/4/2019	04:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36729.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	Blind Duplicate (DUP)		
Lab Sample ID:	191889-05	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 17:42
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:42
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 17:42
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 17:42
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 17:42
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:42
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 17:42
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 17:42
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:42
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 17:42
1,4-Dioxane	< 20.0	ug/L		5/9/2019 17:42
2-Butanone	< 10.0	ug/L		5/9/2019 17:42
2-Hexanone	< 5.00	ug/L		5/9/2019 17:42
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 17:42
Acetone	< 10.0	ug/L		5/9/2019 17:42
Benzene	**2.69**	ug/L		5/9/2019 17:42
Bromochloromethane	< 5.00	ug/L		5/9/2019 17:42
Bromodichloromethane	< 2.00	ug/L		5/9/2019 17:42
Bromoform	< 5.00	ug/L		5/9/2019 17:42
Bromomethane	< 2.00	ug/L		5/9/2019 17:42
Carbon disulfide	< 2.00	ug/L		5/9/2019 17:42
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 17:42
Chlorobenzene	< 2.00	ug/L		5/9/2019 17:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	17:42
Chloroform	< 2.00	ug/L		5/9/2019	17:42
Chloromethane	< 2.00	ug/L		5/9/2019	17:42
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:42
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:42
Cyclohexane	< 10.0	ug/L		5/9/2019	17:42
Dibromochloromethane	< 2.00	ug/L		5/9/2019	17:42
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	17:42
Ethylbenzene	**23.6**	ug/L		5/9/2019	17:42
Freon 113	< 2.00	ug/L		5/9/2019	17:42
Isopropylbenzene	**2.10**	ug/L		5/9/2019	17:42
m,p-Xylene	**25.2**	ug/L		5/9/2019	17:42
Methyl acetate	< 2.00	ug/L		5/9/2019	17:42
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	17:42
Methylcyclohexane	**1.05**	ug/L	J	5/9/2019	17:42
Methylene chloride	< 5.00	ug/L		5/9/2019	17:42
o-Xylene	**3.03**	ug/L		5/9/2019	17:42
Styrene	< 5.00	ug/L		5/9/2019	17:42
Tetrachloroethene	< 2.00	ug/L		5/9/2019	17:42
Toluene	< 2.00	ug/L		5/9/2019	17:42
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	17:42
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	17:42
Trichloroethene	< 2.00	ug/L		5/9/2019	17:42
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	17:42
Vinyl chloride	< 2.00	ug/L		5/9/2019	17:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Blind Duplicate (DUP)
Lab Sample ID: 191889-05 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**94.2**	71.4 - 133		5/9/2019	17:42
4-Bromofluorobenzene	**92.0**	61.7 - 126		5/9/2019	17:42
Pentafluorobenzene	**100**	87.4 - 109		5/9/2019	17:42
Toluene-D8	**97.3**	82.3 - 112		5/9/2019	17:42

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60727.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.53	ug/L		5/4/2019 05:29
1,2,4,5-Tetrachlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,2,4-Trichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,2-Dichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,3-Dichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
1,4-Dichlorobenzene	< 9.53	ug/L		5/4/2019 05:29
2,2-Oxybis (1-chloropropane)	< 9.53	ug/L		5/4/2019 05:29
2,3,4,6-Tetrachlorophenol	< 9.53	ug/L		5/4/2019 05:29
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 05:29
2,4,6-Trichlorophenol	< 9.53	ug/L		5/4/2019 05:29
2,4-Dichlorophenol	< 9.53	ug/L		5/4/2019 05:29
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 05:29
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 05:29
2,4-Dinitrotoluene	< 9.53	ug/L		5/4/2019 05:29
2,6-Dinitrotoluene	< 9.53	ug/L		5/4/2019 05:29
2-Chloronaphthalene	< 9.53	ug/L		5/4/2019 05:29
2-Chlorophenol	< 9.53	ug/L		5/4/2019 05:29
2-Methylnapthalene	< 9.53	ug/L		5/4/2019 05:29
2-Methylphenol	< 9.53	ug/L		5/4/2019 05:29
2-Nitroaniline	< 19.1	ug/L		5/4/2019 05:29
2-Nitrophenol	< 9.53	ug/L		5/4/2019 05:29
3&4-Methylphenol	< 9.53	ug/L		5/4/2019 05:29
3,3'-Dichlorobenzidine	< 9.53	ug/L		5/4/2019 05:29
3-Nitroaniline	< 19.1	ug/L		5/4/2019 05:29
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 05:29
4-Bromophenyl phenyl ether	< 9.53	ug/L		5/4/2019 05:29
4-Chloro-3-methylphenol	< 9.53	ug/L		5/4/2019 05:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.53	ug/L	5/4/2019	05:29
4-Chlorophenyl phenyl ether	< 9.53	ug/L	5/4/2019	05:29
4-Nitroaniline	< 19.1	ug/L	5/4/2019	05:29
4-Nitrophenol	< 19.1	ug/L	5/4/2019	05:29
Acenaphthene	< 9.53	ug/L	5/4/2019	05:29
Acenaphthylene	< 9.53	ug/L	5/4/2019	05:29
Acetophenone	< 9.53	ug/L	5/4/2019	05:29
Anthracene	< 9.53	ug/L	5/4/2019	05:29
Atrazine	< 9.53	ug/L	5/4/2019	05:29
Benzaldehyde	< 9.53	ug/L	5/4/2019	05:29
Benzo (a) anthracene	< 9.53	ug/L	5/4/2019	05:29
Benzo (a) pyrene	< 9.53	ug/L	5/4/2019	05:29
Benzo (b) fluoranthene	< 9.53	ug/L	5/4/2019	05:29
Benzo (g,h,i) perylene	< 9.53	ug/L	5/4/2019	05:29
Benzo (k) fluoranthene	< 9.53	ug/L	5/4/2019	05:29
Bis (2-chloroethoxy) methane	< 9.53	ug/L	5/4/2019	05:29
Bis (2-chloroethyl) ether	< 9.53	ug/L	5/4/2019	05:29
Bis (2-ethylhexyl) phthalate	< 9.53	ug/L	5/4/2019	05:29
Butylbenzylphthalate	< 9.53	ug/L	5/4/2019	05:29
Caprolactam	< 9.53	ug/L	5/4/2019	05:29
Carbazole	< 9.53	ug/L	5/4/2019	05:29
Chrysene	< 9.53	ug/L	5/4/2019	05:29
Dibenz (a,h) anthracene	< 9.53	ug/L	5/4/2019	05:29
Dibenzofuran	< 9.53	ug/L	5/4/2019	05:29
Diethyl phthalate	< 9.53	ug/L	5/4/2019	05:29
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	05:29
Di-n-butyl phthalate	< 9.53	ug/L	5/4/2019	05:29
Di-n-octylphthalate	< 9.53	ug/L	5/4/2019	05:29
Fluoranthene	< 9.53	ug/L	5/4/2019	05:29
Fluorene	< 9.53	ug/L	5/4/2019	05:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.53	ug/L	5/4/2019	05:29
Hexachlorobutadiene	< 9.53	ug/L	5/4/2019	05:29
Hexachlorocyclopentadiene	< 9.53	ug/L	5/4/2019	05:29
Hexachloroethane	< 9.53	ug/L	5/4/2019	05:29
Indeno (1,2,3-cd) pyrene	< 9.53	ug/L	5/4/2019	05:29
Isophorone	< 9.53	ug/L	5/4/2019	05:29
Naphthalene	< 9.53	ug/L	5/4/2019	05:29
Nitrobenzene	< 9.53	ug/L	5/4/2019	05:29
N-Nitroso-di-n-propylamine	< 9.53	ug/L	5/4/2019	05:29
N-Nitrosodiphenylamine	< 9.53	ug/L	5/4/2019	05:29
Pentachlorophenol	< 19.1	ug/L	5/4/2019	05:29
Phenanthrene	< 9.53	ug/L	5/4/2019	05:29
Phenol	< 9.53	ug/L	5/4/2019	05:29
Pyrene	< 9.53	ug/L	5/4/2019	05:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.3**	47.9 - 130		5/4/2019	05:29
2-Fluorobiphenyl	**50.0**	30.8 - 101		5/4/2019	05:29
2-Fluorophenol	**44.0**	10 - 113		5/4/2019	05:29
Nitrobenzene-d5	**72.9**	48.6 - 102		5/4/2019	05:29
Phenol-d5	**30.2**	10 - 111		5/4/2019	05:29
Terphenyl-d14	**87.9**	57.2 - 111		5/4/2019	05:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36730.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 18:05
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:05
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:05
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 18:05
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 18:05
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:05
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 18:05
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 18:05
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:05
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:05
1,4-Dioxane	< 20.0	ug/L		5/9/2019 18:05
2-Butanone	< 10.0	ug/L		5/9/2019 18:05
2-Hexanone	< 5.00	ug/L		5/9/2019 18:05
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 18:05
Acetone	< 10.0	ug/L		5/9/2019 18:05
Benzene	< 1.00	ug/L		5/9/2019 18:05
Bromochloromethane	< 5.00	ug/L		5/9/2019 18:05
Bromodichloromethane	< 2.00	ug/L		5/9/2019 18:05
Bromoform	< 5.00	ug/L		5/9/2019 18:05
Bromomethane	< 2.00	ug/L		5/9/2019 18:05
Carbon disulfide	< 2.00	ug/L		5/9/2019 18:05
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 18:05
Chlorobenzene	< 2.00	ug/L		5/9/2019 18:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	18:05
Chloroform	< 2.00	ug/L	5/9/2019	18:05
Chloromethane	< 2.00	ug/L	5/9/2019	18:05
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:05
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:05
Cyclohexane	< 10.0	ug/L	5/9/2019	18:05
Dibromochloromethane	< 2.00	ug/L	5/9/2019	18:05
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	18:05
Ethylbenzene	< 2.00	ug/L	5/9/2019	18:05
Freon 113	< 2.00	ug/L	5/9/2019	18:05
Isopropylbenzene	< 2.00	ug/L	5/9/2019	18:05
m,p-Xylene	< 2.00	ug/L	5/9/2019	18:05
Methyl acetate	< 2.00	ug/L	5/9/2019	18:05
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	18:05
Methylcyclohexane	< 2.00	ug/L	5/9/2019	18:05
Methylene chloride	< 5.00	ug/L	5/9/2019	18:05
o-Xylene	< 2.00	ug/L	5/9/2019	18:05
Styrene	< 5.00	ug/L	5/9/2019	18:05
Tetrachloroethene	< 2.00	ug/L	5/9/2019	18:05
Toluene	< 2.00	ug/L	5/9/2019	18:05
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:05
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:05
Trichloroethene	< 2.00	ug/L	5/9/2019	18:05
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	18:05
Vinyl chloride	< 2.00	ug/L	5/9/2019	18:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 16
Lab Sample ID: 191889-06 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**94.2**	71.4 - 133		5/9/2019	18:05
4-Bromofluorobenzene	**76.4**	61.7 - 126		5/9/2019	18:05
Pentafluorobenzene	**100**	87.4 - 109		5/9/2019	18:05
Toluene-D8	**89.6**	82.3 - 112		5/9/2019	18:05

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60728.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.57	ug/L		5/4/2019 05:58
1,2,4,5-Tetrachlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,2,4-Trichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,2-Dichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,3-Dichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
1,4-Dichlorobenzene	< 9.57	ug/L		5/4/2019 05:58
2,2-Oxybis (1-chloropropane)	< 9.57	ug/L		5/4/2019 05:58
2,3,4,6-Tetrachlorophenol	< 9.57	ug/L		5/4/2019 05:58
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 05:58
2,4,6-Trichlorophenol	< 9.57	ug/L		5/4/2019 05:58
2,4-Dichlorophenol	< 9.57	ug/L		5/4/2019 05:58
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 05:58
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 05:58
2,4-Dinitrotoluene	< 9.57	ug/L		5/4/2019 05:58
2,6-Dinitrotoluene	< 9.57	ug/L		5/4/2019 05:58
2-Chloronaphthalene	< 9.57	ug/L		5/4/2019 05:58
2-Chlorophenol	< 9.57	ug/L		5/4/2019 05:58
2-Methylnapthalene	< 9.57	ug/L		5/4/2019 05:58
2-Methylphenol	< 9.57	ug/L		5/4/2019 05:58
2-Nitroaniline	< 19.1	ug/L		5/4/2019 05:58
2-Nitrophenol	< 9.57	ug/L		5/4/2019 05:58
3&4-Methylphenol	< 9.57	ug/L		5/4/2019 05:58
3,3'-Dichlorobenzidine	< 9.57	ug/L		5/4/2019 05:58
3-Nitroaniline	< 19.1	ug/L		5/4/2019 05:58
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 05:58
4-Bromophenyl phenyl ether	< 9.57	ug/L		5/4/2019 05:58
4-Chloro-3-methylphenol	< 9.57	ug/L		5/4/2019 05:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.57	ug/L	5/4/2019	05:58
4-Chlorophenyl phenyl ether	< 9.57	ug/L	5/4/2019	05:58
4-Nitroaniline	< 19.1	ug/L	5/4/2019	05:58
4-Nitrophenol	< 19.1	ug/L	5/4/2019	05:58
Acenaphthene	< 9.57	ug/L	5/4/2019	05:58
Acenaphthylene	< 9.57	ug/L	5/4/2019	05:58
Acetophenone	< 9.57	ug/L	5/4/2019	05:58
Anthracene	< 9.57	ug/L	5/4/2019	05:58
Atrazine	< 9.57	ug/L	5/4/2019	05:58
Benzaldehyde	< 9.57	ug/L	5/4/2019	05:58
Benzo (a) anthracene	< 9.57	ug/L	5/4/2019	05:58
Benzo (a) pyrene	< 9.57	ug/L	5/4/2019	05:58
Benzo (b) fluoranthene	< 9.57	ug/L	5/4/2019	05:58
Benzo (g,h,i) perylene	< 9.57	ug/L	5/4/2019	05:58
Benzo (k) fluoranthene	< 9.57	ug/L	5/4/2019	05:58
Bis (2-chloroethoxy) methane	< 9.57	ug/L	5/4/2019	05:58
Bis (2-chloroethyl) ether	< 9.57	ug/L	5/4/2019	05:58
Bis (2-ethylhexyl) phthalate	< 9.57	ug/L	5/4/2019	05:58
Butylbenzylphthalate	< 9.57	ug/L	5/4/2019	05:58
Caprolactam	< 9.57	ug/L	5/4/2019	05:58
Carbazole	< 9.57	ug/L	5/4/2019	05:58
Chrysene	< 9.57	ug/L	5/4/2019	05:58
Dibenz (a,h) anthracene	< 9.57	ug/L	5/4/2019	05:58
Dibenzofuran	< 9.57	ug/L	5/4/2019	05:58
Diethyl phthalate	< 9.57	ug/L	5/4/2019	05:58
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	05:58
Di-n-butyl phthalate	< 9.57	ug/L	5/4/2019	05:58
Di-n-octylphthalate	< 9.57	ug/L	5/4/2019	05:58
Fluoranthene	< 9.57	ug/L	5/4/2019	05:58
Fluorene	< 9.57	ug/L	5/4/2019	05:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.57	ug/L	5/4/2019	05:58
Hexachlorobutadiene	< 9.57	ug/L	5/4/2019	05:58
Hexachlorocyclopentadiene	< 9.57	ug/L	5/4/2019	05:58
Hexachloroethane	< 9.57	ug/L	5/4/2019	05:58
Indeno (1,2,3-cd) pyrene	< 9.57	ug/L	5/4/2019	05:58
Isophorone	< 9.57	ug/L	5/4/2019	05:58
Naphthalene	< 9.57	ug/L	5/4/2019	05:58
Nitrobenzene	< 9.57	ug/L	5/4/2019	05:58
N-Nitroso-di-n-propylamine	< 9.57	ug/L	5/4/2019	05:58
N-Nitrosodiphenylamine	< 9.57	ug/L	5/4/2019	05:58
Pentachlorophenol	< 19.1	ug/L	5/4/2019	05:58
Phenanthrene	< 9.57	ug/L	5/4/2019	05:58
Phenol	< 9.57	ug/L	5/4/2019	05:58
Pyrene	< 9.57	ug/L	5/4/2019	05:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.0**	47.9 - 130		5/4/2019	05:58
2-Fluorobiphenyl	**39.4**	30.8 - 101		5/4/2019	05:58
2-Fluorophenol	**44.6**	10 - 113		5/4/2019	05:58
Nitrobenzene-d5	**73.9**	48.6 - 102		5/4/2019	05:58
Phenol-d5	**30.2**	10 - 111		5/4/2019	05:58
Terphenyl-d14	**84.4**	57.2 - 111		5/4/2019	05:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36731.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 9R		
Lab Sample ID:	191889-07	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 18:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 18:27
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 18:27
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:27
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 18:27
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 18:27
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:27
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:27
1,4-Dioxane	< 20.0	ug/L		5/9/2019 18:27
2-Butanone	< 10.0	ug/L		5/9/2019 18:27
2-Hexanone	< 5.00	ug/L		5/9/2019 18:27
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 18:27
Acetone	< 10.0	ug/L		5/9/2019 18:27
Benzene	< 1.00	ug/L		5/9/2019 18:27
Bromochloromethane	< 5.00	ug/L		5/9/2019 18:27
Bromodichloromethane	< 2.00	ug/L		5/9/2019 18:27
Bromoform	< 5.00	ug/L		5/9/2019 18:27
Bromomethane	< 2.00	ug/L		5/9/2019 18:27
Carbon disulfide	< 2.00	ug/L		5/9/2019 18:27
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 18:27
Chlorobenzene	< 2.00	ug/L		5/9/2019 18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	18:27
Chloroform	< 2.00	ug/L	5/9/2019	18:27
Chloromethane	< 2.00	ug/L	5/9/2019	18:27
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:27
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:27
Cyclohexane	< 10.0	ug/L	5/9/2019	18:27
Dibromochloromethane	< 2.00	ug/L	5/9/2019	18:27
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	18:27
Ethylbenzene	< 2.00	ug/L	5/9/2019	18:27
Freon 113	< 2.00	ug/L	5/9/2019	18:27
Isopropylbenzene	< 2.00	ug/L	5/9/2019	18:27
m,p-Xylene	< 2.00	ug/L	5/9/2019	18:27
Methyl acetate	< 2.00	ug/L	5/9/2019	18:27
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	18:27
Methylcyclohexane	< 2.00	ug/L	5/9/2019	18:27
Methylene chloride	< 5.00	ug/L	5/9/2019	18:27
o-Xylene	< 2.00	ug/L	5/9/2019	18:27
Styrene	< 5.00	ug/L	5/9/2019	18:27
Tetrachloroethene	< 2.00	ug/L	5/9/2019	18:27
Toluene	< 2.00	ug/L	5/9/2019	18:27
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	18:27
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	18:27
Trichloroethene	< 2.00	ug/L	5/9/2019	18:27
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	18:27
Vinyl chloride	< 2.00	ug/L	5/9/2019	18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 9R
Lab Sample ID: 191889-07 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**93.5**	71.4 - 133		5/9/2019	18:27
4-Bromofluorobenzene	**75.0**	61.7 - 126		5/9/2019	18:27
Pentafluorobenzene	**98.8**	87.4 - 109		5/9/2019	18:27
Toluene-D8	**89.3**	82.3 - 112		5/9/2019	18:27

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60729.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.71	ug/L		5/4/2019 06:28
1,2,4,5-Tetrachlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,2,4-Trichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,2-Dichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,3-Dichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
1,4-Dichlorobenzene	< 9.71	ug/L		5/4/2019 06:28
2,2-Oxybis (1-chloropropane)	< 9.71	ug/L		5/4/2019 06:28
2,3,4,6-Tetrachlorophenol	< 9.71	ug/L		5/4/2019 06:28
2,4,5-Trichlorophenol	< 19.4	ug/L		5/4/2019 06:28
2,4,6-Trichlorophenol	< 9.71	ug/L		5/4/2019 06:28
2,4-Dichlorophenol	< 9.71	ug/L		5/4/2019 06:28
2,4-Dimethylphenol	< 19.4	ug/L		5/4/2019 06:28
2,4-Dinitrophenol	< 19.4	ug/L		5/4/2019 06:28
2,4-Dinitrotoluene	< 9.71	ug/L		5/4/2019 06:28
2,6-Dinitrotoluene	< 9.71	ug/L		5/4/2019 06:28
2-Chloronaphthalene	< 9.71	ug/L		5/4/2019 06:28
2-Chlorophenol	< 9.71	ug/L		5/4/2019 06:28
2-Methylnapthalene	< 9.71	ug/L		5/4/2019 06:28
2-Methylphenol	< 9.71	ug/L		5/4/2019 06:28
2-Nitroaniline	< 19.4	ug/L		5/4/2019 06:28
2-Nitrophenol	< 9.71	ug/L		5/4/2019 06:28
3&4-Methylphenol	< 9.71	ug/L		5/4/2019 06:28
3,3'-Dichlorobenzidine	< 9.71	ug/L		5/4/2019 06:28
3-Nitroaniline	< 19.4	ug/L		5/4/2019 06:28
4,6-Dinitro-2-methylphenol	< 19.4	ug/L		5/4/2019 06:28
4-Bromophenyl phenyl ether	< 9.71	ug/L		5/4/2019 06:28
4-Chloro-3-methylphenol	< 9.71	ug/L		5/4/2019 06:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.71	ug/L	5/4/2019	06:28
4-Chlorophenyl phenyl ether	< 9.71	ug/L	5/4/2019	06:28
4-Nitroaniline	< 19.4	ug/L	5/4/2019	06:28
4-Nitrophenol	< 19.4	ug/L	5/4/2019	06:28
Acenaphthene	< 9.71	ug/L	5/4/2019	06:28
Acenaphthylene	< 9.71	ug/L	5/4/2019	06:28
Acetophenone	< 9.71	ug/L	5/4/2019	06:28
Anthracene	< 9.71	ug/L	5/4/2019	06:28
Atrazine	< 9.71	ug/L	5/4/2019	06:28
Benzaldehyde	< 9.71	ug/L	5/4/2019	06:28
Benzo (a) anthracene	< 9.71	ug/L	5/4/2019	06:28
Benzo (a) pyrene	< 9.71	ug/L	5/4/2019	06:28
Benzo (b) fluoranthene	< 9.71	ug/L	5/4/2019	06:28
Benzo (g,h,i) perylene	< 9.71	ug/L	5/4/2019	06:28
Benzo (k) fluoranthene	< 9.71	ug/L	5/4/2019	06:28
Bis (2-chloroethoxy) methane	< 9.71	ug/L	5/4/2019	06:28
Bis (2-chloroethyl) ether	< 9.71	ug/L	5/4/2019	06:28
Bis (2-ethylhexyl) phthalate	< 9.71	ug/L	5/4/2019	06:28
Butylbenzylphthalate	< 9.71	ug/L	5/4/2019	06:28
Caprolactam	< 9.71	ug/L	5/4/2019	06:28
Carbazole	< 9.71	ug/L	5/4/2019	06:28
Chrysene	< 9.71	ug/L	5/4/2019	06:28
Dibenz (a,h) anthracene	< 9.71	ug/L	5/4/2019	06:28
Dibenzofuran	< 9.71	ug/L	5/4/2019	06:28
Diethyl phthalate	< 9.71	ug/L	5/4/2019	06:28
Dimethyl phthalate	< 19.4	ug/L	5/4/2019	06:28
Di-n-butyl phthalate	< 9.71	ug/L	5/4/2019	06:28
Di-n-octylphthalate	< 9.71	ug/L	5/4/2019	06:28
Fluoranthene	< 9.71	ug/L	5/4/2019	06:28
Fluorene	< 9.71	ug/L	5/4/2019	06:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.71	ug/L		5/4/2019	06:28
Hexachlorobutadiene	< 9.71	ug/L		5/4/2019	06:28
Hexachlorocyclopentadiene	< 9.71	ug/L		5/4/2019	06:28
Hexachloroethane	< 9.71	ug/L		5/4/2019	06:28
Indeno (1,2,3-cd) pyrene	< 9.71	ug/L		5/4/2019	06:28
Isophorone	< 9.71	ug/L		5/4/2019	06:28
Naphthalene	**6.34**	ug/L	J	5/4/2019	06:28
Nitrobenzene	< 9.71	ug/L		5/4/2019	06:28
N-Nitroso-di-n-propylamine	< 9.71	ug/L		5/4/2019	06:28
N-Nitrosodiphenylamine	< 9.71	ug/L		5/4/2019	06:28
Pentachlorophenol	< 19.4	ug/L		5/4/2019	06:28
Phenanthrene	< 9.71	ug/L		5/4/2019	06:28
Phenol	< 9.71	ug/L		5/4/2019	06:28
Pyrene	< 9.71	ug/L		5/4/2019	06:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.5**	47.9 - 130		5/4/2019	06:28
2-Fluorobiphenyl	**53.8**	30.8 - 101		5/4/2019	06:28
2-Fluorophenol	**38.4**	10 - 113		5/4/2019	06:28
Nitrobenzene-d5	**64.1**	48.6 - 102		5/4/2019	06:28
Phenol-d5	**26.9**	10 - 111		5/4/2019	06:28
Terphenyl-d14	**85.5**	57.2 - 111		5/4/2019	06:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36732.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 18:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 18:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 18:50
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 18:50
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:50
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 18:50
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 18:50
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:50
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 18:50
1,4-Dioxane	< 20.0	ug/L		5/9/2019 18:50
2-Butanone	< 10.0	ug/L		5/9/2019 18:50
2-Hexanone	< 5.00	ug/L		5/9/2019 18:50
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 18:50
Acetone	< 10.0	ug/L		5/9/2019 18:50
Benzene	**3.85**	ug/L		5/9/2019 18:50
Bromochloromethane	< 5.00	ug/L		5/9/2019 18:50
Bromodichloromethane	< 2.00	ug/L		5/9/2019 18:50
Bromoform	< 5.00	ug/L		5/9/2019 18:50
Bromomethane	< 2.00	ug/L		5/9/2019 18:50
Carbon disulfide	< 2.00	ug/L		5/9/2019 18:50
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 18:50
Chlorobenzene	< 2.00	ug/L		5/9/2019 18:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	18:50
Chloroform	< 2.00	ug/L		5/9/2019	18:50
Chloromethane	< 2.00	ug/L		5/9/2019	18:50
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	18:50
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	18:50
Cyclohexane	< 10.0	ug/L		5/9/2019	18:50
Dibromochloromethane	< 2.00	ug/L		5/9/2019	18:50
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	18:50
Ethylbenzene	**45.3**	ug/L		5/9/2019	18:50
Freon 113	< 2.00	ug/L		5/9/2019	18:50
Isopropylbenzene	**1.73**	ug/L	J	5/9/2019	18:50
m,p-Xylene	**29.5**	ug/L		5/9/2019	18:50
Methyl acetate	< 2.00	ug/L		5/9/2019	18:50
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	18:50
Methylcyclohexane	**1.71**	ug/L	J	5/9/2019	18:50
Methylene chloride	< 5.00	ug/L		5/9/2019	18:50
o-Xylene	**1.38**	ug/L	J	5/9/2019	18:50
Styrene	< 5.00	ug/L		5/9/2019	18:50
Tetrachloroethene	< 2.00	ug/L		5/9/2019	18:50
Toluene	< 2.00	ug/L		5/9/2019	18:50
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	18:50
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	18:50
Trichloroethene	< 2.00	ug/L		5/9/2019	18:50
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	18:50
Vinyl chloride	< 2.00	ug/L		5/9/2019	18:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 15R
Lab Sample ID: 191889-08 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**91.1**	71.4 - 133		5/9/2019	18:50
4-Bromofluorobenzene	**94.2**	61.7 - 126		5/9/2019	18:50
Pentafluorobenzene	**97.8**	87.4 - 109		5/9/2019	18:50
Toluene-D8	**98.8**	82.3 - 112		5/9/2019	18:50

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60730.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.54	ug/L		5/4/2019 06:58
1,2,4,5-Tetrachlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,2,4-Trichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,2-Dichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,3-Dichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
1,4-Dichlorobenzene	< 9.54	ug/L		5/4/2019 06:58
2,2-Oxybis (1-chloropropane)	< 9.54	ug/L		5/4/2019 06:58
2,3,4,6-Tetrachlorophenol	< 9.54	ug/L		5/4/2019 06:58
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 06:58
2,4,6-Trichlorophenol	< 9.54	ug/L		5/4/2019 06:58
2,4-Dichlorophenol	< 9.54	ug/L		5/4/2019 06:58
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 06:58
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 06:58
2,4-Dinitrotoluene	< 9.54	ug/L		5/4/2019 06:58
2,6-Dinitrotoluene	< 9.54	ug/L		5/4/2019 06:58
2-Chloronaphthalene	< 9.54	ug/L		5/4/2019 06:58
2-Chlorophenol	< 9.54	ug/L		5/4/2019 06:58
2-Methylnapthalene	< 9.54	ug/L		5/4/2019 06:58
2-Methylphenol	< 9.54	ug/L		5/4/2019 06:58
2-Nitroaniline	< 19.1	ug/L		5/4/2019 06:58
2-Nitrophenol	< 9.54	ug/L		5/4/2019 06:58
3&4-Methylphenol	< 9.54	ug/L		5/4/2019 06:58
3,3'-Dichlorobenzidine	< 9.54	ug/L		5/4/2019 06:58
3-Nitroaniline	< 19.1	ug/L		5/4/2019 06:58
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 06:58
4-Bromophenyl phenyl ether	< 9.54	ug/L		5/4/2019 06:58
4-Chloro-3-methylphenol	< 9.54	ug/L		5/4/2019 06:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.54	ug/L	5/4/2019	06:58
4-Chlorophenyl phenyl ether	< 9.54	ug/L	5/4/2019	06:58
4-Nitroaniline	< 19.1	ug/L	5/4/2019	06:58
4-Nitrophenol	< 19.1	ug/L	5/4/2019	06:58
Acenaphthene	< 9.54	ug/L	5/4/2019	06:58
Acenaphthylene	< 9.54	ug/L	5/4/2019	06:58
Acetophenone	< 9.54	ug/L	5/4/2019	06:58
Anthracene	< 9.54	ug/L	5/4/2019	06:58
Atrazine	< 9.54	ug/L	5/4/2019	06:58
Benzaldehyde	< 9.54	ug/L	5/4/2019	06:58
Benzo (a) anthracene	< 9.54	ug/L	5/4/2019	06:58
Benzo (a) pyrene	< 9.54	ug/L	5/4/2019	06:58
Benzo (b) fluoranthene	< 9.54	ug/L	5/4/2019	06:58
Benzo (g,h,i) perylene	< 9.54	ug/L	5/4/2019	06:58
Benzo (k) fluoranthene	< 9.54	ug/L	5/4/2019	06:58
Bis (2-chloroethoxy) methane	< 9.54	ug/L	5/4/2019	06:58
Bis (2-chloroethyl) ether	< 9.54	ug/L	5/4/2019	06:58
Bis (2-ethylhexyl) phthalate	< 9.54	ug/L	5/4/2019	06:58
Butylbenzylphthalate	< 9.54	ug/L	5/4/2019	06:58
Caprolactam	< 9.54	ug/L	5/4/2019	06:58
Carbazole	< 9.54	ug/L	5/4/2019	06:58
Chrysene	< 9.54	ug/L	5/4/2019	06:58
Dibenz (a,h) anthracene	< 9.54	ug/L	5/4/2019	06:58
Dibenzofuran	< 9.54	ug/L	5/4/2019	06:58
Diethyl phthalate	< 9.54	ug/L	5/4/2019	06:58
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	06:58
Di-n-butyl phthalate	< 9.54	ug/L	5/4/2019	06:58
Di-n-octylphthalate	< 9.54	ug/L	5/4/2019	06:58
Fluoranthene	< 9.54	ug/L	5/4/2019	06:58
Fluorene	< 9.54	ug/L	5/4/2019	06:58

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.54	ug/L		5/4/2019	06:58
Hexachlorobutadiene	< 9.54	ug/L		5/4/2019	06:58
Hexachlorocyclopentadiene	< 9.54	ug/L		5/4/2019	06:58
Hexachloroethane	< 9.54	ug/L		5/4/2019	06:58
Indeno (1,2,3-cd) pyrene	< 9.54	ug/L		5/4/2019	06:58
Isophorone	< 9.54	ug/L		5/4/2019	06:58
Naphthalene	**8.08**	ug/L	J	5/4/2019	06:58
Nitrobenzene	< 9.54	ug/L		5/4/2019	06:58
N-Nitroso-di-n-propylamine	< 9.54	ug/L		5/4/2019	06:58
N-Nitrosodiphenylamine	< 9.54	ug/L		5/4/2019	06:58
Pentachlorophenol	< 19.1	ug/L		5/4/2019	06:58
Phenanthrene	< 9.54	ug/L		5/4/2019	06:58
Phenol	< 9.54	ug/L		5/4/2019	06:58
Pyrene	< 9.54	ug/L		5/4/2019	06:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**73.9**	47.9 - 130		5/4/2019	06:58
2-Fluorobiphenyl	**50.8**	30.8 - 101		5/4/2019	06:58
2-Fluorophenol	**38.6**	10 - 113		5/4/2019	06:58
Nitrobenzene-d5	**62.4**	48.6 - 102		5/4/2019	06:58
Phenol-d5	**25.5**	10 - 111		5/4/2019	06:58
Terphenyl-d14	**68.8**	57.2 - 111		5/4/2019	06:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36733.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 1		
Lab Sample ID:	191889-09	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 16:12
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:12
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 16:12
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 16:12
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 16:12
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:12
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 16:12
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 16:12
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:12
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 16:12
1,4-Dioxane	< 20.0	ug/L		5/9/2019 16:12
2-Butanone	< 10.0	ug/L		5/9/2019 16:12
2-Hexanone	< 5.00	ug/L		5/9/2019 16:12
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 16:12
Acetone	< 10.0	ug/L		5/9/2019 16:12
Benzene	**7.27**	ug/L		5/9/2019 16:12
Bromochloromethane	< 5.00	ug/L		5/9/2019 16:12
Bromodichloromethane	< 2.00	ug/L		5/9/2019 16:12
Bromoform	< 5.00	ug/L		5/9/2019 16:12
Bromomethane	< 2.00	ug/L		5/9/2019 16:12
Carbon disulfide	< 2.00	ug/L		5/9/2019 16:12
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 16:12
Chlorobenzene	< 2.00	ug/L		5/9/2019 16:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	16:12
Chloroform	< 2.00	ug/L		5/9/2019	16:12
Chloromethane	< 2.00	ug/L		5/9/2019	16:12
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:12
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:12
Cyclohexane	**31.8**	ug/L		5/9/2019	16:12
Dibromochloromethane	< 2.00	ug/L		5/9/2019	16:12
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	16:12
Ethylbenzene	**73.8**	ug/L		5/9/2019	16:12
Freon 113	< 2.00	ug/L		5/9/2019	16:12
Isopropylbenzene	**4.02**	ug/L		5/9/2019	16:12
m,p-Xylene	**41.1**	ug/L		5/9/2019	16:12
Methyl acetate	< 2.00	ug/L		5/9/2019	16:12
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	16:12
Methylcyclohexane	**8.77**	ug/L		5/9/2019	16:12
Methylene chloride	< 5.00	ug/L		5/9/2019	16:12
o-Xylene	**5.02**	ug/L		5/9/2019	16:12
Styrene	< 5.00	ug/L		5/9/2019	16:12
Tetrachloroethene	< 2.00	ug/L		5/9/2019	16:12
Toluene	**1.40**	ug/L	J	5/9/2019	16:12
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	16:12
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	16:12
Trichloroethene	< 2.00	ug/L		5/9/2019	16:12
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	16:12
Vinyl chloride	< 2.00	ug/L		5/9/2019	16:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 1
Lab Sample ID: 191889-09 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**90.5**	71.4 - 133		5/9/2019	16:12
4-Bromofluorobenzene	**95.3**	61.7 - 126		5/9/2019	16:12
Pentafluorobenzene	**103**	87.4 - 109		5/9/2019	16:12
Toluene-D8	**103**	82.3 - 112		5/9/2019	16:12

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60723.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 3		
Lab Sample ID:	191889-10	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.57	ug/L		5/4/2019 07:28
1,2,4,5-Tetrachlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,2,4-Trichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,2-Dichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,3-Dichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
1,4-Dichlorobenzene	< 9.57	ug/L		5/4/2019 07:28
2,2-Oxybis (1-chloropropane)	< 9.57	ug/L		5/4/2019 07:28
2,3,4,6-Tetrachlorophenol	< 9.57	ug/L		5/4/2019 07:28
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 07:28
2,4,6-Trichlorophenol	< 9.57	ug/L		5/4/2019 07:28
2,4-Dichlorophenol	< 9.57	ug/L		5/4/2019 07:28
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 07:28
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 07:28
2,4-Dinitrotoluene	< 9.57	ug/L		5/4/2019 07:28
2,6-Dinitrotoluene	< 9.57	ug/L		5/4/2019 07:28
2-Chloronaphthalene	< 9.57	ug/L		5/4/2019 07:28
2-Chlorophenol	< 9.57	ug/L		5/4/2019 07:28
2-Methylnapthalene	< 9.57	ug/L		5/4/2019 07:28
2-Methylphenol	< 9.57	ug/L		5/4/2019 07:28
2-Nitroaniline	< 19.1	ug/L		5/4/2019 07:28
2-Nitrophenol	< 9.57	ug/L		5/4/2019 07:28
3&4-Methylphenol	< 9.57	ug/L		5/4/2019 07:28
3,3'-Dichlorobenzidine	< 9.57	ug/L		5/4/2019 07:28
3-Nitroaniline	< 19.1	ug/L		5/4/2019 07:28
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 07:28
4-Bromophenyl phenyl ether	< 9.57	ug/L		5/4/2019 07:28
4-Chloro-3-methylphenol	< 9.57	ug/L		5/4/2019 07:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.57	ug/L	5/4/2019	07:28
4-Chlorophenyl phenyl ether	< 9.57	ug/L	5/4/2019	07:28
4-Nitroaniline	< 19.1	ug/L	5/4/2019	07:28
4-Nitrophenol	< 19.1	ug/L	5/4/2019	07:28
Acenaphthene	< 9.57	ug/L	5/4/2019	07:28
Acenaphthylene	< 9.57	ug/L	5/4/2019	07:28
Acetophenone	< 9.57	ug/L	5/4/2019	07:28
Anthracene	< 9.57	ug/L	5/4/2019	07:28
Atrazine	< 9.57	ug/L	5/4/2019	07:28
Benzaldehyde	< 9.57	ug/L	5/4/2019	07:28
Benzo (a) anthracene	< 9.57	ug/L	5/4/2019	07:28
Benzo (a) pyrene	< 9.57	ug/L	5/4/2019	07:28
Benzo (b) fluoranthene	< 9.57	ug/L	5/4/2019	07:28
Benzo (g,h,i) perylene	< 9.57	ug/L	5/4/2019	07:28
Benzo (k) fluoranthene	< 9.57	ug/L	5/4/2019	07:28
Bis (2-chloroethoxy) methane	< 9.57	ug/L	5/4/2019	07:28
Bis (2-chloroethyl) ether	< 9.57	ug/L	5/4/2019	07:28
Bis (2-ethylhexyl) phthalate	< 9.57	ug/L	5/4/2019	07:28
Butylbenzylphthalate	< 9.57	ug/L	5/4/2019	07:28
Caprolactam	< 9.57	ug/L	5/4/2019	07:28
Carbazole	< 9.57	ug/L	5/4/2019	07:28
Chrysene	< 9.57	ug/L	5/4/2019	07:28
Dibenz (a,h) anthracene	< 9.57	ug/L	5/4/2019	07:28
Dibenzofuran	< 9.57	ug/L	5/4/2019	07:28
Diethyl phthalate	< 9.57	ug/L	5/4/2019	07:28
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	07:28
Di-n-butyl phthalate	< 9.57	ug/L	5/4/2019	07:28
Di-n-octylphthalate	< 9.57	ug/L	5/4/2019	07:28
Fluoranthene	< 9.57	ug/L	5/4/2019	07:28
Fluorene	< 9.57	ug/L	5/4/2019	07:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.57	ug/L	5/4/2019	07:28
Hexachlorobutadiene	< 9.57	ug/L	5/4/2019	07:28
Hexachlorocyclopentadiene	< 9.57	ug/L	5/4/2019	07:28
Hexachloroethane	< 9.57	ug/L	5/4/2019	07:28
Indeno (1,2,3-cd) pyrene	< 9.57	ug/L	5/4/2019	07:28
Isophorone	< 9.57	ug/L	5/4/2019	07:28
Naphthalene	< 9.57	ug/L	5/4/2019	07:28
Nitrobenzene	< 9.57	ug/L	5/4/2019	07:28
N-Nitroso-di-n-propylamine	< 9.57	ug/L	5/4/2019	07:28
N-Nitrosodiphenylamine	< 9.57	ug/L	5/4/2019	07:28
Pentachlorophenol	< 19.1	ug/L	5/4/2019	07:28
Phenanthrene	< 9.57	ug/L	5/4/2019	07:28
Phenol	< 9.57	ug/L	5/4/2019	07:28
Pyrene	< 9.57	ug/L	5/4/2019	07:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.7**	47.9 - 130		5/4/2019	07:28
2-Fluorobiphenyl	**67.9**	30.8 - 101		5/4/2019	07:28
2-Fluorophenol	**42.2**	10 - 113		5/4/2019	07:28
Nitrobenzene-d5	**71.3**	48.6 - 102		5/4/2019	07:28
Phenol-d5	**28.8**	10 - 111		5/4/2019	07:28
Terphenyl-d14	**80.9**	57.2 - 111		5/4/2019	07:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36734.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier:	MW 3		
Lab Sample ID:	191889-10	**Date Sampled:**	5/2/2019
Matrix:	Water	**Date Received:**	5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 19:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 19:13
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 19:13
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:13
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 19:13
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 19:13
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:13
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:13
1,4-Dioxane	< 20.0	ug/L		5/9/2019 19:13
2-Butanone	< 10.0	ug/L		5/9/2019 19:13
2-Hexanone	< 5.00	ug/L		5/9/2019 19:13
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 19:13
Acetone	< 10.0	ug/L		5/9/2019 19:13
Benzene	**2.45**	ug/L		5/9/2019 19:13
Bromochloromethane	< 5.00	ug/L		5/9/2019 19:13
Bromodichloromethane	< 2.00	ug/L		5/9/2019 19:13
Bromoform	< 5.00	ug/L		5/9/2019 19:13
Bromomethane	< 2.00	ug/L		5/9/2019 19:13
Carbon disulfide	< 2.00	ug/L		5/9/2019 19:13
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 19:13
Chlorobenzene	< 2.00	ug/L		5/9/2019 19:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	19:13
Chloroform	< 2.00	ug/L	5/9/2019	19:13
Chloromethane	< 2.00	ug/L	5/9/2019	19:13
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	19:13
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	19:13
Cyclohexane	< 10.0	ug/L	5/9/2019	19:13
Dibromochloromethane	< 2.00	ug/L	5/9/2019	19:13
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	19:13
Ethylbenzene	**2.01**	ug/L	5/9/2019	19:13
Freon 113	< 2.00	ug/L	5/9/2019	19:13
Isopropylbenzene	**4.18**	ug/L	5/9/2019	19:13
m,p-Xylene	< 2.00	ug/L	5/9/2019	19:13
Methyl acetate	< 2.00	ug/L	5/9/2019	19:13
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	19:13
Methylcyclohexane	< 2.00	ug/L	5/9/2019	19:13
Methylene chloride	< 5.00	ug/L	5/9/2019	19:13
o-Xylene	< 2.00	ug/L	5/9/2019	19:13
Styrene	< 5.00	ug/L	5/9/2019	19:13
Tetrachloroethene	< 2.00	ug/L	5/9/2019	19:13
Toluene	< 2.00	ug/L	5/9/2019	19:13
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	19:13
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	19:13
Trichloroethene	< 2.00	ug/L	5/9/2019	19:13
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	19:13
Vinyl chloride	< 2.00	ug/L	5/9/2019	19:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 3
Lab Sample ID: 191889-10 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**88.7**	71.4 - 133		5/9/2019	19:13
4-Bromofluorobenzene	**91.3**	61.7 - 126		5/9/2019	19:13
Pentafluorobenzene	**105**	87.4 - 109		5/9/2019	19:13
Toluene-D8	**105**	82.3 - 112		5/9/2019	19:13

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60731.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.

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.54	ug/L		5/4/2019 07:57
1,2,4,5-Tetrachlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,2,4-Trichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,2-Dichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,3-Dichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
1,4-Dichlorobenzene	< 9.54	ug/L		5/4/2019 07:57
2,2-Oxybis (1-chloropropane)	< 9.54	ug/L		5/4/2019 07:57
2,3,4,6-Tetrachlorophenol	< 9.54	ug/L		5/4/2019 07:57
2,4,5-Trichlorophenol	< 19.1	ug/L		5/4/2019 07:57
2,4,6-Trichlorophenol	< 9.54	ug/L		5/4/2019 07:57
2,4-Dichlorophenol	< 9.54	ug/L		5/4/2019 07:57
2,4-Dimethylphenol	< 19.1	ug/L		5/4/2019 07:57
2,4-Dinitrophenol	< 19.1	ug/L		5/4/2019 07:57
2,4-Dinitrotoluene	< 9.54	ug/L		5/4/2019 07:57
2,6-Dinitrotoluene	< 9.54	ug/L		5/4/2019 07:57
2-Chloronaphthalene	< 9.54	ug/L		5/4/2019 07:57
2-Chlorophenol	< 9.54	ug/L		5/4/2019 07:57
2-Methylnapthalene	< 9.54	ug/L		5/4/2019 07:57
2-Methylphenol	< 9.54	ug/L		5/4/2019 07:57
2-Nitroaniline	< 19.1	ug/L		5/4/2019 07:57
2-Nitrophenol	< 9.54	ug/L		5/4/2019 07:57
3&4-Methylphenol	< 9.54	ug/L		5/4/2019 07:57
3,3'-Dichlorobenzidine	< 9.54	ug/L		5/4/2019 07:57
3-Nitroaniline	< 19.1	ug/L		5/4/2019 07:57
4,6-Dinitro-2-methylphenol	< 19.1	ug/L		5/4/2019 07:57
4-Bromophenyl phenyl ether	< 9.54	ug/L		5/4/2019 07:57
4-Chloro-3-methylphenol	< 9.54	ug/L		5/4/2019 07:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

4-Chloroaniline	< 9.54	ug/L	5/4/2019	07:57
4-Chlorophenyl phenyl ether	< 9.54	ug/L	5/4/2019	07:57
4-Nitroaniline	< 19.1	ug/L	5/4/2019	07:57
4-Nitrophenol	< 19.1	ug/L	5/4/2019	07:57
Acenaphthene	< 9.54	ug/L	5/4/2019	07:57
Acenaphthylene	< 9.54	ug/L	5/4/2019	07:57
Acetophenone	< 9.54	ug/L	5/4/2019	07:57
Anthracene	< 9.54	ug/L	5/4/2019	07:57
Atrazine	< 9.54	ug/L	5/4/2019	07:57
Benzaldehyde	< 9.54	ug/L	5/4/2019	07:57
Benzo (a) anthracene	< 9.54	ug/L	5/4/2019	07:57
Benzo (a) pyrene	< 9.54	ug/L	5/4/2019	07:57
Benzo (b) fluoranthene	< 9.54	ug/L	5/4/2019	07:57
Benzo (g,h,i) perylene	< 9.54	ug/L	5/4/2019	07:57
Benzo (k) fluoranthene	< 9.54	ug/L	5/4/2019	07:57
Bis (2-chloroethoxy) methane	< 9.54	ug/L	5/4/2019	07:57
Bis (2-chloroethyl) ether	< 9.54	ug/L	5/4/2019	07:57
Bis (2-ethylhexyl) phthalate	< 9.54	ug/L	5/4/2019	07:57
Butylbenzylphthalate	< 9.54	ug/L	5/4/2019	07:57
Caprolactam	< 9.54	ug/L	5/4/2019	07:57
Carbazole	< 9.54	ug/L	5/4/2019	07:57
Chrysene	< 9.54	ug/L	5/4/2019	07:57
Dibenz (a,h) anthracene	< 9.54	ug/L	5/4/2019	07:57
Dibenzofuran	< 9.54	ug/L	5/4/2019	07:57
Diethyl phthalate	< 9.54	ug/L	5/4/2019	07:57
Dimethyl phthalate	< 19.1	ug/L	5/4/2019	07:57
Di-n-butyl phthalate	< 9.54	ug/L	5/4/2019	07:57
Di-n-octylphthalate	< 9.54	ug/L	5/4/2019	07:57
Fluoranthene	< 9.54	ug/L	5/4/2019	07:57
Fluorene	< 9.54	ug/L	5/4/2019	07:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Hexachlorobenzene	< 9.54	ug/L	5/4/2019	07:57
Hexachlorobutadiene	< 9.54	ug/L	5/4/2019	07:57
Hexachlorocyclopentadiene	< 9.54	ug/L	5/4/2019	07:57
Hexachloroethane	< 9.54	ug/L	5/4/2019	07:57
Indeno (1,2,3-cd) pyrene	< 9.54	ug/L	5/4/2019	07:57
Isophorone	< 9.54	ug/L	5/4/2019	07:57
Naphthalene	< 9.54	ug/L	5/4/2019	07:57
Nitrobenzene	< 9.54	ug/L	5/4/2019	07:57
N-Nitroso-di-n-propylamine	< 9.54	ug/L	5/4/2019	07:57
N-Nitrosodiphenylamine	< 9.54	ug/L	5/4/2019	07:57
Pentachlorophenol	< 19.1	ug/L	5/4/2019	07:57
Phenanthrene	< 9.54	ug/L	5/4/2019	07:57
Phenol	< 9.54	ug/L	5/4/2019	07:57
Pyrene	< 9.54	ug/L	5/4/2019	07:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**67.3**	47.9 - 130		5/4/2019	07:57
2-Fluorobiphenyl	**57.1**	30.8 - 101		5/4/2019	07:57
2-Fluorophenol	**31.8**	10 - 113		5/4/2019	07:57
Nitrobenzene-d5	**64.3**	48.6 - 102		5/4/2019	07:57
Phenol-d5	**21.8**	10 - 111		5/4/2019	07:57
Terphenyl-d14	**66.5**	57.2 - 111		5/4/2019	07:57

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 5/3/2019
Data File: B36735.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 19:35
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:35
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 19:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 19:35
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 19:35
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:35
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 19:35
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 19:35
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:35
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 19:35
1,4-Dioxane	< 20.0	ug/L		5/9/2019 19:35
2-Butanone	< 10.0	ug/L		5/9/2019 19:35
2-Hexanone	< 5.00	ug/L		5/9/2019 19:35
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 19:35
Acetone	< 10.0	ug/L		5/9/2019 19:35
Benzene	**0.677**	ug/L	J	5/9/2019 19:35
Bromochloromethane	< 5.00	ug/L		5/9/2019 19:35
Bromodichloromethane	< 2.00	ug/L		5/9/2019 19:35
Bromoform	< 5.00	ug/L		5/9/2019 19:35
Bromomethane	< 2.00	ug/L		5/9/2019 19:35
Carbon disulfide	< 2.00	ug/L		5/9/2019 19:35
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 19:35
Chlorobenzene	< 2.00	ug/L		5/9/2019 19:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L		5/9/2019	19:35
Chloroform	< 2.00	ug/L		5/9/2019	19:35
Chloromethane	< 2.00	ug/L		5/9/2019	19:35
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	19:35
cis-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	19:35
Cyclohexane	< 10.0	ug/L		5/9/2019	19:35
Dibromochloromethane	< 2.00	ug/L		5/9/2019	19:35
Dichlorodifluoromethane	< 2.00	ug/L		5/9/2019	19:35
Ethylbenzene	**5.05**	ug/L		5/9/2019	19:35
Freon 113	< 2.00	ug/L		5/9/2019	19:35
Isopropylbenzene	**1.45**	ug/L	J	5/9/2019	19:35
m,p-Xylene	**1.02**	ug/L	J	5/9/2019	19:35
Methyl acetate	< 2.00	ug/L		5/9/2019	19:35
Methyl tert-butyl Ether	< 2.00	ug/L		5/9/2019	19:35
Methylcyclohexane	< 2.00	ug/L		5/9/2019	19:35
Methylene chloride	< 5.00	ug/L		5/9/2019	19:35
o-Xylene	< 2.00	ug/L		5/9/2019	19:35
Styrene	< 5.00	ug/L		5/9/2019	19:35
Tetrachloroethene	< 2.00	ug/L		5/9/2019	19:35
Toluene	< 2.00	ug/L		5/9/2019	19:35
trans-1,2-Dichloroethene	< 2.00	ug/L		5/9/2019	19:35
trans-1,3-Dichloropropene	< 2.00	ug/L		5/9/2019	19:35
Trichloroethene	< 2.00	ug/L		5/9/2019	19:35
Trichlorofluoromethane	< 2.00	ug/L		5/9/2019	19:35
Vinyl chloride	< 2.00	ug/L		5/9/2019	19:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: MW 4
Lab Sample ID: 191889-11 **Date Sampled:** 5/2/2019
Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**86.9**	71.4 - 133		5/9/2019	19:35
4-Bromofluorobenzene	**100**	61.7 - 126		5/9/2019	19:35
Pentafluorobenzene	**109**	87.4 - 109		5/9/2019	19:35
Toluene-D8	**116**	82.3 - 112	*	5/9/2019	19:35

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x60732.D

Report Prepared Friday, May 10, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Trip Blank T903
Lab Sample ID: 191889-12 **Date Sampled:** 4/18/2019
Matrix: Water **Date Received:** 5/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1-Dichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,1-Dichloroethene	< 2.00	ug/L		5/9/2019 15:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2019 15:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2019 15:27
1,2-Dibromoethane	< 2.00	ug/L		5/9/2019 15:27
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:27
1,2-Dichloroethane	< 2.00	ug/L		5/9/2019 15:27
1,2-Dichloropropane	< 2.00	ug/L		5/9/2019 15:27
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:27
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2019 15:27
1,4-Dioxane	< 20.0	ug/L		5/9/2019 15:27
2-Butanone	< 10.0	ug/L		5/9/2019 15:27
2-Hexanone	< 5.00	ug/L		5/9/2019 15:27
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2019 15:27
Acetone	< 10.0	ug/L		5/9/2019 15:27
Benzene	< 1.00	ug/L		5/9/2019 15:27
Bromochloromethane	< 5.00	ug/L		5/9/2019 15:27
Bromodichloromethane	< 2.00	ug/L		5/9/2019 15:27
Bromoform	< 5.00	ug/L		5/9/2019 15:27
Bromomethane	< 2.00	ug/L		5/9/2019 15:27
Carbon disulfide	< 2.00	ug/L		5/9/2019 15:27
Carbon Tetrachloride	< 2.00	ug/L		5/9/2019 15:27
Chlorobenzene	< 2.00	ug/L		5/9/2019 15:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Trip Blank T903
Lab Sample ID: 191889-12 **Date Sampled:** 4/18/2019
Matrix: Water **Date Received:** 5/2/2019

Chloroethane	< 2.00	ug/L	5/9/2019	15:27
Chloroform	< 2.00	ug/L	5/9/2019	15:27
Chloromethane	< 2.00	ug/L	5/9/2019	15:27
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	15:27
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	15:27
Cyclohexane	< 10.0	ug/L	5/9/2019	15:27
Dibromochloromethane	< 2.00	ug/L	5/9/2019	15:27
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2019	15:27
Ethylbenzene	< 2.00	ug/L	5/9/2019	15:27
Freon 113	< 2.00	ug/L	5/9/2019	15:27
Isopropylbenzene	< 2.00	ug/L	5/9/2019	15:27
m,p-Xylene	< 2.00	ug/L	5/9/2019	15:27
Methyl acetate	< 2.00	ug/L	5/9/2019	15:27
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2019	15:27
Methylcyclohexane	< 2.00	ug/L	5/9/2019	15:27
Methylene chloride	< 5.00	ug/L	5/9/2019	15:27
o-Xylene	< 2.00	ug/L	5/9/2019	15:27
Styrene	< 5.00	ug/L	5/9/2019	15:27
Tetrachloroethene	< 2.00	ug/L	5/9/2019	15:27
Toluene	< 2.00	ug/L	5/9/2019	15:27
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2019	15:27
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2019	15:27
Trichloroethene	< 2.00	ug/L	5/9/2019	15:27
Trichlorofluoromethane	< 2.00	ug/L	5/9/2019	15:27
Vinyl chloride	< 2.00	ug/L	5/9/2019	15:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191889

Client: **City of Rochester**

Project Reference: 1200 East Main St

Sample Identifier: Trip Blank T903

Lab Sample ID: 191889-12 **Date Sampled:** 4/18/2019

Matrix: Water **Date Received:** 5/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	71.4 - 133		5/9/2019	15:27
4-Bromofluorobenzene	**67.1**	61.7 - 126		5/9/2019	15:27
Pentafluorobenzene	**94.4**	87.4 - 109		5/9/2019	15:27
Toluene-D8	**83.4**	82.3 - 112		5/9/2019	15:27

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x60721.D

Report Prepared Friday, May 10, 2019

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, term 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 re-perform 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.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	CITY OF ROCHESTER	COMPANY:	SAME	LAB PROJECT #: 191889	CLIENT PROJECT #:
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:			
CITY: ROCHESTER STATE: NY ZIP: 14614		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: 585-428-7892 FAX: 585-428-6010		PHONE: FAX:		STD	OTHER
PROJECT NAME/SITE NAME: 1200 East Main St	ATTN: JANE FORBES	ATTN:	forbesj@cityofrochester.gov	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
	COMMENTS: ASP CAT B PROTOCAL				

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/2/2019	0900		X	MW 2	H2O	3	X	X		01
2		1030/1050		X	MW 8	H2O	3	X	X		02
3		1120		X	MW 11	H2O	3	X	X		
4		↓		X	MS/MW11	H2O	3	X	X		03
5		↓		X	MSD/MW11	H2O	3	X	X		
6		1330		X	MW 7R	H2O	3	X	X		04
7		1330		X	Blind Duplicate (DUP)	H2O	3	X	X		05
8		1445		X	MW 16	H2O	3	X	X		06
9		1445		X	MW 9R	H2O	3	X	X		07
10	↓	1535		X	MW 15R	H2O	3	X	X		08

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:	CONTAINER TYPE: ☐	PRESERVATIONS: ☐	HOLDING TIME: ☐	TEMPERATURE: ☐	11°C iced started in field 5/2/19 16:43

Sampled By: A.Z. Martino	Date/Time: 5/2/2019	Relinquished By: A.Z. Martino	Date/Time: 5/2/2019 @ 1619	Total Cost:
Relinquished By: A.Z. Martino	Date/Time: 5/2/2019 @ 1619	Received By: Jane Forbes	Date/Time: 5/2/19 1619	
Received By: Jane Forbes	Date/Time: 5/2/2019 1619	Received @ Lab By: Molly Reid	Date/Time: 5/2/19 1701	P.I.F.

1445 client delivered MR 5/2/19

2 of 3

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:			
COMPANY:	CITY OF ROCHESTER	COMPANY:	SAME	LAB PROJECT #: 191889	CLIENT PROJECT #:
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:			
CITY: ROCHESTER STATE: NY ZIP: 14614		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: 585-428-7892 FAX: 585-428-6010		PHONE: FAX:		STD	OTHER
PROJECT NAME/SITE NAME: 1200 East Main St	ATTN: JANE FORBES	ATTN:	forbesj@cityofrochester.gov	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
	COMMENTS: ASP CAT B PROTOCAL				

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/2/2019	15[25]		X	MW-1	H2O	3	X	X		09
2	↓	16[08]		X	MW-3	H2O	3	X	X		10
3		16[16]		X	MW-4	H2O	3	X	X		11
4	4/1/19			X	trip blank TQ03 per label mr 5/2/19	H2O	3	X	X		12
5				X		H2O	3	X	X		
6				X		H2O	3	X	X		
7				X		H2O	3	X	X		
8				X		H2O	3	X	X		
9				X		H2O	3	X	X		
10				X		H2O	3	X	X		

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation: CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 1445

Sampled By: A.Z. Martins	Date/Time: 5/2/2019	Relinquished By: ~~A.Z. Martins~~	Date/Time: 5/2/2019 @ 16[19]
Relinquished By: A.Z. Martins	Date/Time: 5/2/2019 @ 16[19]	Received By: Jane Forbes	Date/Time: 5/2/19 1619
Received By:	Date/Time: 5/2/2019 1619	Received @ Lab By: Molly Vail 5/2/19 1701	Date/Time:

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Molly Vail

Lab Project ID: 191889 **Date:** 5/2/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		SVOA
Comments			
Preservation	VOA		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X	X 12	
Comments		OK to run Trip Blank past HT per procedure	
Temperature	X		
Comments	11°C iced started in field		
Compliant Sample Quantity/Type	X		
Comments			

City of Rochester

Office of the Commissioner
Department of Environmental Services
City Hall Room 300B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov

Division of
Environmental Quality

October 9th, 2019

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, NY 14414-9516
Attn: Charlotte Theobald

Re: Quarterly Report
1200 East Main Street
Site No.: B00129

Dear Ms. Theobald,

The City of Rochester's Division of Environmental Quality conducted the second of the quarterly post-remediation groundwater monitoring at the 1200 East Main Street site (Site) on August 1st and August 2nd of 2019. Groundwater samples were collected using low-flow sampling techniques in accordance with Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Table 1 summarizes detected compound concentrations at each of the sampled wells. Field data logs are included as Attachment 1. Laboratory analytical data is included as Attachment 2. The field QA/QC laboratory data is included on the enclosed CD as Attachment 3.

Table 1.0 – August, 2019 VOC Detections

Monitoring Well	MW-1	MW-3	MW-4	MW-7R	MW-9R	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5 *
Date	Aug-19	Aug-19	Aug-19	Aug-19	Aug-19	Aug-19	Aug-19	Aug-19	
TCL VOCs (ug/L)									
Acetone	**34.7**	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	**50.0** **
Benzene	ND (1.00)	**2.03**	**3.09**	ND (1.00)	ND (1.00)	**1.41**	**1.73**	ND (1.00)	**1.0**
Cyclohexane	ND (10.0)	ND (10.0)	ND (10.00)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	**NA**
Ethylbenzene	**1.12**	**2.01**	ND (2.00)	ND (2.00)	ND (2.00)	**13.00**	**19.00**	ND (2.00)	**5.0**
Isopropylbenzene	ND (2.00)	**25.5**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**1.25**	ND (2.00)	**5.0**
m,p-Xylene	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**6.44**	ND (2.00)	ND (2.00)	**5.0**
MTBE	ND (2.00)	ND (2.00)	ND (2.00)	**48.7**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**10.0**
Total VOCs	**35.82**	**29.54**	**3.09**	**48.70**	**0.00**	**20.85**	**21.98**	**0.00**	**NA**

Notes:
ND (X) denotes that the compound was analyzed but **not detected** at or above the quantitation limit (X)
* **Bold & underlined** font denotes a VOC detection exceeding NYSDEC Part 703.5 Groundwater standards.
** **Denotes** NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) that was used when NYSDEC Part 703.5 Groundwater standard was not available.

Tables 2.1 and 2.2 are included to illustrate the historic levels of Total VOCs and Benzene, respectively, from the time of the oxygen system operation, through the present. Two (2) rounds of groundwater sampling have been completed since the system was removed in March, 2019.

Table 2.1 – Historical VOC Totals

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16
Date	Total VOCs										
Nov-16	163.08	13.80	30.60	701.30	112.98	59.28	0.00	NS	16.90	2.00	0.98
Mar-17	305.10	0.00	43.45	122.50	32.40	0.00	0.00	0.00	26.70	222.30	2.30
Aug-17	246.60	0.00	29.81	32.27	21.16	0.00	0.00	NS	63.69	182.13	0.00
Nov-17	0.00	0.00	5.84	8.74	15.34	0.00	0.00	NS	28.54	164.00	0.00
Mar-18	364.54	0.00	6.28	135.91	199.30	0.00	0.00	0.00	56.97	144.66	0.00
Oxygen injection system shut off March, 2019											
May-19	173.18	0.00	8.64	8.20	65.53	2.68	0.00	NS	7.34	83.47	0.00
Aug-19	35.82	NS	29.54	3.09	48.70	NS	0.00	NS	20.85	21.98	0.00

Notes:
ND (X) denotes that the compound was analyzed but not detected at or above the quantitation limit (X)
NS denotes that the well was not sampled

Table 2.2 – Historical Benzene Levels

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5
Date	Benzene											
Nov-16	0.86	1.80	20.70	47.60	53.90	ND (1.0)	ND (1.0)	NS	2.80	ND (1.0)	ND (1.0)	1.0
Mar-17	13.00	ND (1.0)	2.10	7.00	0.72	ND (1.0)	ND (1.0)	ND (1.0)	2.10	4.80	ND (1.0)	1.0
Aug-17	7.03	ND (1.0)	5.65	1.76	1.12	ND (1.0)	ND (1.0)	NS	4.85	4.68	ND (1.0)	1.0
Nov-17	ND (1.0)	ND (1.0)	1.67	0.81	ND (1.0)	ND (1.0)	ND (1.0)	NS	2.30	4.70	ND (1.0)	1.0
Mar-18	5.04	ND (1.0)	0.99	7.87	1.83	ND (1.0)	ND (1.0)	ND (1.0)	0.60	4.72	ND (1.0)	1.0
Oxygen injection system shut off March, 2019												
May-19	7.27	ND (1.0)	2.45	0.68	2.72	1.12	ND (1.0)	NS	ND (1.0)	3.85	ND (1.0)	1.0
Aug-19	ND (1.0)	NS	2.03	3.09	ND (1.0)	NS	ND (1.0)	NS	1.41	1.73	ND (1.0)	1.0

Notes:
ND (X) denotes that the compound was analyzed but **not detected** at or above the quantitation limit (X)
NS denotes that the well was not sampled
* **Bold & underlined** font denotes a Benzene detection exceeding NYSDEC Part 703.5 Groundwater standards.

The historical VOC totals and Benzene concentrations in each well have not fluctuated significantly since the oxygen injection system was shut off in March, 2019. These trends indicate that the remedy at the Site has been effective. Please note that MW-10 has been eliminated from the sampling program as the well is broken/non-operational. Please also note that parameters were not collected for MW-3 and MW-1 before sampling as there was not enough water available; samples were not collected for MW-2 and MW-8 as there was no groundwater present at the time of sampling.

This was the second of four (4) quarterly post-remediation groundwater monitoring events. The next quarterly sampling event is expected to take place at the beginning of November, 2019. The City will follow up with electronic data deliverables (EDDs) that will be compatible with NYSDEC's requirements for EDDs.

Sincerely,
Division of Environmental Quality

Alexandra Zobel
Assistant Environmental Technician

Figure:

Figure 1: 1200 East Main Street: August, 2019 VOC Detections & Exceedances

Attachments:

Attachment 1: Q1 Groundwater Sampling Logs
Attachment 2: Laboratory Results
Attachment 3: Full Laboratory Package **(CD)**

G:\ENVQUAL\Alex\Projects\1200 E Main\Quarterly Sampling\Quarterly Reports\Q 2 Report\1200 East Main Q2 Report_10-9-2019.docx

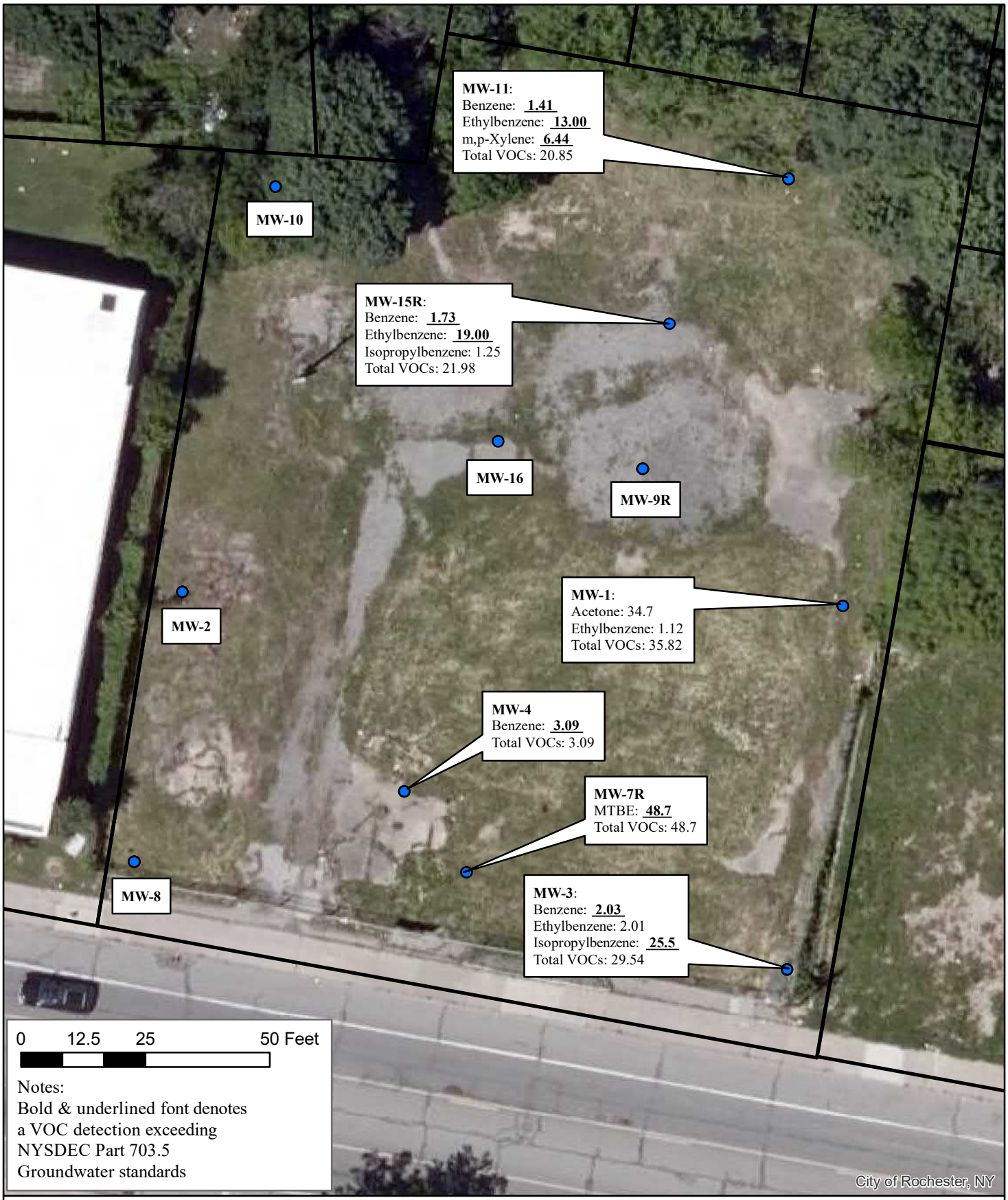

Figure 1

City of Rochester, NY
Lovely A. Warren, Mayor

1200 East Main Street

August, 2019 VOC Detections & Exceedances

Attachments

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-16 **Date** 8/1/2019

Well Depth 24.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI **Tubing type** _____ **Water Level** 16.85

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zahid Martino

started pumping ~~@ 1325~~ @ 1530

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
1530	6.96	14.8	1.43	0.28	50.0				
1535	7.50	16.1	1.46	2.00	41.9				
1540	7.04	17.5	1.48	2.99	14.6				
1545	7.36	18.1	1.48	3.04	38.2		18.5		
1550	7.32	17.9	1.47	2.44	32.2		18.5		
1555	7.31	16.5	1.48	2.77	19.4		19.0		
1600	7.24	16.0	1.46	0.67	45.1		19.3		
1605	7.25	16.3	1.45	1.06	30.6		19.0		
1610	7.35	16.4	1.45	1.15	26.4		19.0		
1615	7.23	16.8	1.44	1.12	23.5		18.7		
1620	7.~~23~~	16.9	1.43	1.18	11.1		18.5		
1625	7.25	16.8	1.43	1.14	12.1		18.7		

Type of Samples Collected

TCL VOCs (2 VOA vials) + SVOCs (1 L amber) @ 1625

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-15R **Date** 8/1/2019
Well Depth 24 **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC
Sampling Device _____ **Tubing type** _____ **Water Level** 16.8
Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zabel

started pumping @ 13:05

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	water level		Notes
13:10	8.27	13.8	1.65	1.98	21.4		16.8		water clear but rust colored particles present
13:15	7.88	14.4	1.65	1.44	5.29		18.6		
13:20	8.05	14.4	1.70	0.78	3.01				
13:25	7.57	14.8	1.60	2.01	2.47				
13:30	7.38	16.5	1.59	3.07	4.10				
13:35	7.39	17.6	1.60	3.32	2.34				
13:40	7.26	18.3	1.57	3.59	1.51				
13:45	7.14	18.8	1.54	3.74	1.43				

Type of Samples Collected
(2) VOA (TCL VOCs) + (1) SVOCs @ 13:45

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-9R **Date** 8/1/2019

Well Depth 22 **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 13.85'

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zabel Martins

started pumping @ 1423

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1427	7.17	14.5	2.02	1.90	6.48				
1432	7.10	15.4	2.02	3.34	5.97				
1437	7.02	14.9	2.01	5.17	6.69				
1442	6.92	14.6	2.00	5.96	5.03				
1447	6.65	15.1	2.00	5.08	3.48				
1452	6.57	14.9	1.99	4.63	3.05				
1457	6.54	15.0	1.99	4.48	1.68				
1502	6.50	15.3	1.99	4.40	1.80				

Type of Samples Collected TCL VOCs + SVOCs sampled @ 1505

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

2" well constant = 0.16

(22 - 18.2) * 0.16 =

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-11 **Date** 08/01/2019

Well Depth ~~18.2~~ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device VSI **Tubing type** _____ **Water Level** 18.2

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zakel

started @ 10^50 & pumping

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
~~10^00~~	~~7.53~~								water black in color, gassy
11^12	9.59	13.0	1.02	0.24	16.9				smell
11^17	9.65	13.9	1.01	0.37	16.7				
11^22	9.48	13.9	1.01	0.34	8.89				
11^28	9.47	14.5	1.00	0.33	5.31				
11^33	9.58	14.8	1.00	0.30	5.05				

@ 11:40

Type of Samples Collected (6) VOA samples + ~~(3) + L~~ (3) SVOCs

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$ * MS/MSD collected.

Figure 2. **Ground Water Sampling Log**

Project 1200E Main **Site** _____ **Well No.** MW-3 **Date** 08/02/2019
Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC
Sampling Device N/A **Tubing type** _____ **Water Level** 13.62
Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zabel Martino

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
17^{00}	- peristaltic pump having issues w/ pumping consistently; decision made to sample w/o testing parameters								

Type of Samples Collected
TCL VOCs + TCL SVOCs collected @ 17^{00}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$ * Blind Dup also collected *

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-1 **Date** 08/02/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI **Tubing type** _____ **Water Level** 19.73

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started ~~sample~~ pumping @ 15:30

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15:30									well water full of ~~must collect~~ sediment
	* well only produced sediment - filled								
	water + then pumped dry. Decision is made								
	to abandon parameter reading + sample wells								

Type of Samples Collected TCL VOCs + TCL SVOCs collected @ 15:45

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-7R **Date** 8/2/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 17.6

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started pumping @ 1320

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
1322	7.06	17.4	1.84	0.18	1930				
1327	6.80	16.7	1.81	0.10	854				
1332	6.10	16.2	1.77	0.09	11.7		18.10		
1337	6.44	17.0	1.77	0.09	11.93		18.10		
1342	6.45	18.9	1.77	0.10	7.10		18.40		
1347	6.37	16.2	1.79	0.08	3.43		18.70		
1352	6.36	16.1	1.80	0.07	2.60		18.90		
1357	6.34	16.3	1.81	0.05	3.87				

Type of Samples Collected

TCL VOCs + TCL SVOCs collected @ 1400

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

* SVOCs sample not filled up completely to 1L ≈ .75L

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-4 **Date** 8/2/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI **Tubing type** _____ **Water Level** 16.35

Measuring Point _____ **Other Infor** _____

Sampling Personnel _____

started pumping @ 10^{30}

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
10^{32}	7.09	15.8	1.94	1.24	28.0		16.35		
10^{37}	7.28	15.5	1.95	0.46	12.1		18.0		
10^{42}	7.41	16.0	1.92	0.32	8.04		18.81		
10^{47}	7.39	16.8	1.93	0.31	13.7		19.50		
10^{52}	7.38	16.7	1.93	0.30	10.82		20.00		
* well recharging so slowly that low-flow cell									→ well purged dry, pump off
not filling, decision made to sample @ 11^{53}									

Type of Samples Collected

VOC, SVOC Sample time 1153

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200E Main **Site** _____ **Well No.** MW-2 **Date** 8/1/2019

Well Depth ~~22.0'~~ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI **Tubing type** _____ **Water Level** 23.10'

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zakul Martins

started pumping @ 17^{00}

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc	H_2O level		Notes
17^{05}	5.58	16.7	1.27	6.45	3162		23.9		rust colored water
17^{10}	5.49	16.7	1.28	4.50	2477		24.0		
* well pumped dry, no sample achieved									
* re-attempted to sample 08/02/2019; no GW present - no sample taken									

Type of Samples Collected N/A - well pumped dry

Information: 2 In = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-8 **Date** 8/1/2019

Well Depth 22.0' **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI **Tubing type** _____ **Water Level** 21.86

Measuring Point _____ **Other Infor** _____

Sampling Personnel A. Zobil Martinez

started pumping @ 17^{30}, well pumped dry; no samples taken

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
* reattempted to sample - no sample taken						08/02/2019;		no GW present	

Type of Samples Collected N/A - well pumped dry

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		8/9/2019 23:09
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,2,4-Trichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,2-Dichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,3-Dichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
1,4-Dichlorobenzene	< 10.3	ug/L		8/9/2019 23:09
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		8/9/2019 23:09
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		8/9/2019 23:09
2,4,5-Trichlorophenol	< 20.6	ug/L		8/9/2019 23:09
2,4,6-Trichlorophenol	< 10.3	ug/L		8/9/2019 23:09
2,4-Dichlorophenol	< 10.3	ug/L		8/9/2019 23:09
2,4-Dimethylphenol	< 20.6	ug/L		8/9/2019 23:09
2,4-Dinitrophenol	< 20.6	ug/L		8/9/2019 23:09
2,4-Dinitrotoluene	< 10.3	ug/L		8/9/2019 23:09
2,6-Dinitrotoluene	< 10.3	ug/L		8/9/2019 23:09
2-Chloronaphthalene	< 10.3	ug/L		8/9/2019 23:09
2-Chlorophenol	< 10.3	ug/L		8/9/2019 23:09
2-Methylnapthalene	< 10.3	ug/L		8/9/2019 23:09
2-Methylphenol	< 10.3	ug/L		8/9/2019 23:09
2-Nitroaniline	< 20.6	ug/L		8/9/2019 23:09
2-Nitrophenol	< 10.3	ug/L		8/9/2019 23:09
3&4-Methylphenol	< 10.3	ug/L		8/9/2019 23:09
3,3'-Dichlorobenzidine	< 10.3	ug/L		8/9/2019 23:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.6	ug/L	8/9/2019	23:09
4,6-Dinitro-2-methylphenol	< 20.6	ug/L	8/9/2019	23:09
4-Bromophenyl phenyl ether	< 10.3	ug/L	8/9/2019	23:09
4-Chloro-3-methylphenol	< 10.3	ug/L	8/9/2019	23:09
4-Chloroaniline	< 10.3	ug/L	8/9/2019	23:09
4-Chlorophenyl phenyl ether	< 10.3	ug/L	8/9/2019	23:09
4-Nitroaniline	< 20.6	ug/L	8/9/2019	23:09
4-Nitrophenol	< 20.6	ug/L	8/9/2019	23:09
Acenaphthene	< 10.3	ug/L	8/9/2019	23:09
Acenaphthylene	< 10.3	ug/L	8/9/2019	23:09
Acetophenone	< 10.3	ug/L	8/9/2019	23:09
Anthracene	< 10.3	ug/L	8/9/2019	23:09
Atrazine	< 10.3	ug/L	8/9/2019	23:09
Benzaldehyde	< 10.3	ug/L	8/9/2019	23:09
Benzo (a) anthracene	< 10.3	ug/L	8/9/2019	23:09
Benzo (a) pyrene	< 10.3	ug/L	8/9/2019	23:09
Benzo (b) fluoranthene	< 10.3	ug/L	8/9/2019	23:09
Benzo (g,h,i) perylene	< 10.3	ug/L	8/9/2019	23:09
Benzo (k) fluoranthene	< 10.3	ug/L	8/9/2019	23:09
Bis (2-chloroethoxy) methane	< 10.3	ug/L	8/9/2019	23:09
Bis (2-chloroethyl) ether	< 10.3	ug/L	8/9/2019	23:09
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	8/9/2019	23:09
Butylbenzylphthalate	< 10.3	ug/L	8/9/2019	23:09
Caprolactam	< 10.3	ug/L	8/9/2019	23:09
Carbazole	< 10.3	ug/L	8/9/2019	23:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

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Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.3	ug/L	8/9/2019	23:09
Dibenz (a,h) anthracene	< 10.3	ug/L	8/9/2019	23:09
Dibenzofuran	< 10.3	ug/L	8/9/2019	23:09
Diethyl phthalate	< 10.3	ug/L	8/9/2019	23:09
Dimethyl phthalate	< 20.6	ug/L	8/9/2019	23:09
Di-n-butyl phthalate	< 10.3	ug/L	8/9/2019	23:09
Di-n-octylphthalate	< 10.3	ug/L	8/9/2019	23:09
Fluoranthene	< 10.3	ug/L	8/9/2019	23:09
Fluorene	< 10.3	ug/L	8/9/2019	23:09
Hexachlorobenzene	< 10.3	ug/L	8/9/2019	23:09
Hexachlorobutadiene	< 10.3	ug/L	8/9/2019	23:09
Hexachlorocyclopentadiene	< 10.3	ug/L	8/9/2019	23:09
Hexachloroethane	< 10.3	ug/L	8/9/2019	23:09
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	8/9/2019	23:09
Isophorone	< 10.3	ug/L	8/9/2019	23:09
Naphthalene	< 10.3	ug/L	8/9/2019	23:09
Nitrobenzene	< 10.3	ug/L	8/9/2019	23:09
N-Nitroso-di-n-propylamine	< 10.3	ug/L	8/9/2019	23:09
N-Nitrosodiphenylamine	< 10.3	ug/L	8/9/2019	23:09
Pentachlorophenol	< 20.6	ug/L	8/9/2019	23:09
Phenanthrene	< 10.3	ug/L	8/9/2019	23:09
Phenol	< 10.3	ug/L	8/9/2019	23:09
Pyrene	< 10.3	ug/L	8/9/2019	23:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.3**	54.2 - 126		8/9/2019	23:09
2-Fluorobiphenyl	**60.2**	37.6 - 102		8/9/2019	23:09
2-Fluorophenol	**47.7**	15.1 - 106		8/9/2019	23:09
Nitrobenzene-d5	**75.6**	53.3 - 103		8/9/2019	23:09
Phenol-d5	**31.3**	10 - 108		8/9/2019	23:09
Terphenyl-d14	**76.5**	61.8 - 114		8/9/2019	23:09

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39830.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 17:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 17:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 17:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 17:44
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 17:44
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 17:44
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 17:44
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 17:44
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 17:44
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 17:44
1,4-Dioxane	< 20.0	ug/L		8/14/2019 17:44
2-Butanone	< 10.0	ug/L		8/14/2019 17:44
2-Hexanone	< 5.00	ug/L		8/14/2019 17:44
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 17:44
Acetone	< 10.0	ug/L		8/14/2019 17:44
Benzene	< 1.00	ug/L		8/14/2019 17:44
Bromochloromethane	< 5.00	ug/L		8/14/2019 17:44
Bromodichloromethane	< 2.00	ug/L		8/14/2019 17:44
Bromoform	< 5.00	ug/L		8/14/2019 17:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	17:44
Carbon disulfide	< 2.00	ug/L	8/14/2019	17:44
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	17:44
Chlorobenzene	< 2.00	ug/L	8/14/2019	17:44
Chloroethane	< 2.00	ug/L	8/14/2019	17:44
Chloroform	< 2.00	ug/L	8/14/2019	17:44
Chloromethane	< 2.00	ug/L	8/14/2019	17:44
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	17:44
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	17:44
Cyclohexane	< 10.0	ug/L	8/14/2019	17:44
Dibromochloromethane	< 2.00	ug/L	8/14/2019	17:44
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	17:44
Ethylbenzene	< 2.00	ug/L	8/14/2019	17:44
Freon 113	< 2.00	ug/L	8/14/2019	17:44
Isopropylbenzene	< 2.00	ug/L	8/14/2019	17:44
m,p-Xylene	< 2.00	ug/L	8/14/2019	17:44
Methyl acetate	< 2.00	ug/L	8/14/2019	17:44
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	17:44
Methylcyclohexane	< 2.00	ug/L	8/14/2019	17:44
Methylene chloride	< 5.00	ug/L	8/14/2019	17:44
o-Xylene	< 2.00	ug/L	8/14/2019	17:44
Styrene	< 5.00	ug/L	8/14/2019	17:44
Tetrachloroethene	< 2.00	ug/L	8/14/2019	17:44
Toluene	< 2.00	ug/L	8/14/2019	17:44
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	17:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 193715-01 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	17:44
Trichloroethene	< 2.00	ug/L	8/14/2019	17:44
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	17:44
Vinyl chloride	< 2.00	ug/L	8/14/2019	17:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	73.4 - 131		8/14/2019	17:44
4-Bromofluorobenzene	**92.7**	57.2 - 129		8/14/2019	17:44
Pentafluorobenzene	**92.2**	87 - 112		8/14/2019	17:44
Toluene-D8	**99.8**	78.3 - 115		8/14/2019	17:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63586.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		8/9/2019 23:37
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,2,4-Trichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,2-Dichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,3-Dichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
1,4-Dichlorobenzene	< 10.2	ug/L		8/9/2019 23:37
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		8/9/2019 23:37
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		8/9/2019 23:37
2,4,5-Trichlorophenol	< 20.5	ug/L		8/9/2019 23:37
2,4,6-Trichlorophenol	< 10.2	ug/L		8/9/2019 23:37
2,4-Dichlorophenol	< 10.2	ug/L		8/9/2019 23:37
2,4-Dimethylphenol	< 20.5	ug/L		8/9/2019 23:37
2,4-Dinitrophenol	< 20.5	ug/L		8/9/2019 23:37
2,4-Dinitrotoluene	< 10.2	ug/L		8/9/2019 23:37
2,6-Dinitrotoluene	< 10.2	ug/L		8/9/2019 23:37
2-Chloronaphthalene	< 10.2	ug/L		8/9/2019 23:37
2-Chlorophenol	< 10.2	ug/L		8/9/2019 23:37
2-Methylnapthalene	< 10.2	ug/L		8/9/2019 23:37
2-Methylphenol	< 10.2	ug/L		8/9/2019 23:37
2-Nitroaniline	< 20.5	ug/L		8/9/2019 23:37
2-Nitrophenol	< 10.2	ug/L		8/9/2019 23:37
3&4-Methylphenol	< 10.2	ug/L		8/9/2019 23:37
3,3'-Dichlorobenzidine	< 10.2	ug/L		8/9/2019 23:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.5	ug/L	8/9/2019	23:37
4,6-Dinitro-2-methylphenol	< 20.5	ug/L	8/9/2019	23:37
4-Bromophenyl phenyl ether	< 10.2	ug/L	8/9/2019	23:37
4-Chloro-3-methylphenol	< 10.2	ug/L	8/9/2019	23:37
4-Chloroaniline	< 10.2	ug/L	8/9/2019	23:37
4-Chlorophenyl phenyl ether	< 10.2	ug/L	8/9/2019	23:37
4-Nitroaniline	< 20.5	ug/L	8/9/2019	23:37
4-Nitrophenol	< 20.5	ug/L	8/9/2019	23:37
Acenaphthene	< 10.2	ug/L	8/9/2019	23:37
Acenaphthylene	< 10.2	ug/L	8/9/2019	23:37
Acetophenone	< 10.2	ug/L	8/9/2019	23:37
Anthracene	< 10.2	ug/L	8/9/2019	23:37
Atrazine	< 10.2	ug/L	8/9/2019	23:37
Benzaldehyde	< 10.2	ug/L	8/9/2019	23:37
Benzo (a) anthracene	< 10.2	ug/L	8/9/2019	23:37
Benzo (a) pyrene	< 10.2	ug/L	8/9/2019	23:37
Benzo (b) fluoranthene	< 10.2	ug/L	8/9/2019	23:37
Benzo (g,h,i) perylene	< 10.2	ug/L	8/9/2019	23:37
Benzo (k) fluoranthene	< 10.2	ug/L	8/9/2019	23:37
Bis (2-chloroethoxy) methane	< 10.2	ug/L	8/9/2019	23:37
Bis (2-chloroethyl) ether	< 10.2	ug/L	8/9/2019	23:37
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	8/9/2019	23:37
Butylbenzylphthalate	< 10.2	ug/L	8/9/2019	23:37
Caprolactam	< 10.2	ug/L	8/9/2019	23:37
Carbazole	< 10.2	ug/L	8/9/2019	23:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.2	ug/L	8/9/2019	23:37
Dibenz (a,h) anthracene	< 10.2	ug/L	8/9/2019	23:37
Dibenzofuran	< 10.2	ug/L	8/9/2019	23:37
Diethyl phthalate	< 10.2	ug/L	8/9/2019	23:37
Dimethyl phthalate	< 20.5	ug/L	8/9/2019	23:37
Di-n-butyl phthalate	< 10.2	ug/L	8/9/2019	23:37
Di-n-octylphthalate	< 10.2	ug/L	8/9/2019	23:37
Fluoranthene	< 10.2	ug/L	8/9/2019	23:37
Fluorene	< 10.2	ug/L	8/9/2019	23:37
Hexachlorobenzene	< 10.2	ug/L	8/9/2019	23:37
Hexachlorobutadiene	< 10.2	ug/L	8/9/2019	23:37
Hexachlorocyclopentadiene	< 10.2	ug/L	8/9/2019	23:37
Hexachloroethane	< 10.2	ug/L	8/9/2019	23:37
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	8/9/2019	23:37
Isophorone	< 10.2	ug/L	8/9/2019	23:37
Naphthalene	< 10.2	ug/L	8/9/2019	23:37
Nitrobenzene	< 10.2	ug/L	8/9/2019	23:37
N-Nitroso-di-n-propylamine	< 10.2	ug/L	8/9/2019	23:37
N-Nitrosodiphenylamine	< 10.2	ug/L	8/9/2019	23:37
Pentachlorophenol	< 20.5	ug/L	8/9/2019	23:37
Phenanthrene	< 10.2	ug/L	8/9/2019	23:37
Phenol	< 10.2	ug/L	8/9/2019	23:37
Pyrene	< 10.2	ug/L	8/9/2019	23:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.5**	54.2 - 126		8/9/2019	23:37
2-Fluorobiphenyl	**65.0**	37.6 - 102		8/9/2019	23:37
2-Fluorophenol	**52.0**	15.1 - 106		8/9/2019	23:37
Nitrobenzene-d5	**80.9**	53.3 - 103		8/9/2019	23:37
Phenol-d5	**34.1**	10 - 108		8/9/2019	23:37
Terphenyl-d14	**79.7**	61.8 - 114		8/9/2019	23:37

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39831.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 18:06
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:06
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:06
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 18:06
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 18:06
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:06
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 18:06
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 18:06
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:06
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:06
1,4-Dioxane	< 20.0	ug/L		8/14/2019 18:06
2-Butanone	< 10.0	ug/L		8/14/2019 18:06
2-Hexanone	< 5.00	ug/L		8/14/2019 18:06
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 18:06
Acetone	< 10.0	ug/L		8/14/2019 18:06
Benzene	**1.73**	ug/L		8/14/2019 18:06
Bromochloromethane	< 5.00	ug/L		8/14/2019 18:06
Bromodichloromethane	< 2.00	ug/L		8/14/2019 18:06
Bromoform	< 5.00	ug/L		8/14/2019 18:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L		8/14/2019	18:06
Carbon disulfide	< 2.00	ug/L		8/14/2019	18:06
Carbon Tetrachloride	< 2.00	ug/L		8/14/2019	18:06
Chlorobenzene	< 2.00	ug/L		8/14/2019	18:06
Chloroethane	< 2.00	ug/L		8/14/2019	18:06
Chloroform	< 2.00	ug/L		8/14/2019	18:06
Chloromethane	< 2.00	ug/L		8/14/2019	18:06
cis-1,2-Dichloroethene	< 2.00	ug/L		8/14/2019	18:06
cis-1,3-Dichloropropene	< 2.00	ug/L		8/14/2019	18:06
Cyclohexane	< 10.0	ug/L		8/14/2019	18:06
Dibromochloromethane	< 2.00	ug/L		8/14/2019	18:06
Dichlorodifluoromethane	< 2.00	ug/L		8/14/2019	18:06
Ethylbenzene	**19.0**	ug/L		8/14/2019	18:06
Freon 113	< 2.00	ug/L		8/14/2019	18:06
Isopropylbenzene	**1.25**	ug/L	J	8/14/2019	18:06
m,p-Xylene	< 2.00	ug/L		8/14/2019	18:06
Methyl acetate	< 2.00	ug/L		8/14/2019	18:06
Methyl tert-butyl Ether	< 2.00	ug/L		8/14/2019	18:06
Methylcyclohexane	< 2.00	ug/L		8/14/2019	18:06
Methylene chloride	< 5.00	ug/L		8/14/2019	18:06
o-Xylene	< 2.00	ug/L		8/14/2019	18:06
Styrene	< 5.00	ug/L		8/14/2019	18:06
Tetrachloroethene	< 2.00	ug/L		8/14/2019	18:06
Toluene	< 2.00	ug/L		8/14/2019	18:06
trans-1,2-Dichloroethene	< 2.00	ug/L		8/14/2019	18:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 193715-02 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	18:06
Trichloroethene	< 2.00	ug/L	8/14/2019	18:06
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	18:06
Vinyl chloride	< 2.00	ug/L	8/14/2019	18:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	73.4 - 131		8/14/2019	18:06
4-Bromofluorobenzene	**102**	57.2 - 129		8/14/2019	18:06
Pentafluorobenzene	**88.6**	87 - 112		8/14/2019	18:06
Toluene-D8	**99.2**	78.3 - 115		8/14/2019	18:06

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63587.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		8/10/2019 00:06
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,2,4-Trichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,2-Dichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,3-Dichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
1,4-Dichlorobenzene	< 10.1	ug/L		8/10/2019 00:06
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		8/10/2019 00:06
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		8/10/2019 00:06
2,4,5-Trichlorophenol	< 20.2	ug/L		8/10/2019 00:06
2,4,6-Trichlorophenol	< 10.1	ug/L		8/10/2019 00:06
2,4-Dichlorophenol	< 10.1	ug/L		8/10/2019 00:06
2,4-Dimethylphenol	< 20.2	ug/L		8/10/2019 00:06
2,4-Dinitrophenol	< 20.2	ug/L		8/10/2019 00:06
2,4-Dinitrotoluene	< 10.1	ug/L		8/10/2019 00:06
2,6-Dinitrotoluene	< 10.1	ug/L		8/10/2019 00:06
2-Chloronaphthalene	< 10.1	ug/L		8/10/2019 00:06
2-Chlorophenol	< 10.1	ug/L		8/10/2019 00:06
2-Methylnapthalene	< 10.1	ug/L		8/10/2019 00:06
2-Methylphenol	< 10.1	ug/L		8/10/2019 00:06
2-Nitroaniline	< 20.2	ug/L		8/10/2019 00:06
2-Nitrophenol	< 10.1	ug/L		8/10/2019 00:06
3&4-Methylphenol	< 10.1	ug/L		8/10/2019 00:06
3,3'-Dichlorobenzidine	< 10.1	ug/L		8/10/2019 00:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.2	ug/L	8/10/2019	00:06
4,6-Dinitro-2-methylphenol	< 20.2	ug/L	8/10/2019	00:06
4-Bromophenyl phenyl ether	< 10.1	ug/L	8/10/2019	00:06
4-Chloro-3-methylphenol	< 10.1	ug/L	8/10/2019	00:06
4-Chloroaniline	< 10.1	ug/L	8/10/2019	00:06
4-Chlorophenyl phenyl ether	< 10.1	ug/L	8/10/2019	00:06
4-Nitroaniline	< 20.2	ug/L	8/10/2019	00:06
4-Nitrophenol	< 20.2	ug/L	8/10/2019	00:06
Acenaphthene	< 10.1	ug/L	8/10/2019	00:06
Acenaphthylene	< 10.1	ug/L	8/10/2019	00:06
Acetophenone	< 10.1	ug/L	8/10/2019	00:06
Anthracene	< 10.1	ug/L	8/10/2019	00:06
Atrazine	< 10.1	ug/L	8/10/2019	00:06
Benzaldehyde	< 10.1	ug/L	8/10/2019	00:06
Benzo (a) anthracene	< 10.1	ug/L	8/10/2019	00:06
Benzo (a) pyrene	< 10.1	ug/L	8/10/2019	00:06
Benzo (b) fluoranthene	< 10.1	ug/L	8/10/2019	00:06
Benzo (g,h,i) perylene	< 10.1	ug/L	8/10/2019	00:06
Benzo (k) fluoranthene	< 10.1	ug/L	8/10/2019	00:06
Bis (2-chloroethoxy) methane	< 10.1	ug/L	8/10/2019	00:06
Bis (2-chloroethyl) ether	< 10.1	ug/L	8/10/2019	00:06
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	8/10/2019	00:06
Butylbenzylphthalate	< 10.1	ug/L	8/10/2019	00:06
Caprolactam	< 10.1	ug/L	8/10/2019	00:06
Carbazole	< 10.1	ug/L	8/10/2019	00:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.1	ug/L	8/10/2019	00:06
Dibenz (a,h) anthracene	< 10.1	ug/L	8/10/2019	00:06
Dibenzofuran	< 10.1	ug/L	8/10/2019	00:06
Diethyl phthalate	< 10.1	ug/L	8/10/2019	00:06
Dimethyl phthalate	< 20.2	ug/L	8/10/2019	00:06
Di-n-butyl phthalate	< 10.1	ug/L	8/10/2019	00:06
Di-n-octylphthalate	< 10.1	ug/L	8/10/2019	00:06
Fluoranthene	< 10.1	ug/L	8/10/2019	00:06
Fluorene	< 10.1	ug/L	8/10/2019	00:06
Hexachlorobenzene	< 10.1	ug/L	8/10/2019	00:06
Hexachlorobutadiene	< 10.1	ug/L	8/10/2019	00:06
Hexachlorocyclopentadiene	< 10.1	ug/L	8/10/2019	00:06
Hexachloroethane	< 10.1	ug/L	8/10/2019	00:06
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	8/10/2019	00:06
Isophorone	< 10.1	ug/L	8/10/2019	00:06
Naphthalene	< 10.1	ug/L	8/10/2019	00:06
Nitrobenzene	< 10.1	ug/L	8/10/2019	00:06
N-Nitroso-di-n-propylamine	< 10.1	ug/L	8/10/2019	00:06
N-Nitrosodiphenylamine	< 10.1	ug/L	8/10/2019	00:06
Pentachlorophenol	< 20.2	ug/L	8/10/2019	00:06
Phenanthrene	< 10.1	ug/L	8/10/2019	00:06
Phenol	< 10.1	ug/L	8/10/2019	00:06
Pyrene	< 10.1	ug/L	8/10/2019	00:06

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.5**	54.2 - 126		8/10/2019	00:06
2-Fluorobiphenyl	**55.1**	37.6 - 102		8/10/2019	00:06
2-Fluorophenol	**47.5**	15.1 - 106		8/10/2019	00:06
Nitrobenzene-d5	**75.4**	53.3 - 103		8/10/2019	00:06
Phenol-d5	**31.6**	10 - 108		8/10/2019	00:06
Terphenyl-d14	**76.7**	61.8 - 114		8/10/2019	00:06

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39832.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1,2-Trichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1-Dichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,1-Dichloroethene	< 2.00	ug/L		8/15/2019 18:02
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/15/2019 18:02
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/15/2019 18:02
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/15/2019 18:02
1,2-Dibromoethane	< 2.00	ug/L		8/15/2019 18:02
1,2-Dichlorobenzene	< 2.00	ug/L		8/15/2019 18:02
1,2-Dichloroethane	< 2.00	ug/L		8/15/2019 18:02
1,2-Dichloropropane	< 2.00	ug/L		8/15/2019 18:02
1,3-Dichlorobenzene	< 2.00	ug/L		8/15/2019 18:02
1,4-Dichlorobenzene	< 2.00	ug/L		8/15/2019 18:02
1,4-Dioxane	< 20.0	ug/L		8/15/2019 18:02
2-Butanone	< 10.0	ug/L		8/15/2019 18:02
2-Hexanone	< 5.00	ug/L		8/15/2019 18:02
4-Methyl-2-pentanone	< 5.00	ug/L		8/15/2019 18:02
Acetone	< 10.0	ug/L		8/15/2019 18:02
Benzene	**1.41**	ug/L		8/15/2019 18:02
Bromochloromethane	< 5.00	ug/L		8/15/2019 18:02
Bromodichloromethane	< 2.00	ug/L		8/15/2019 18:02
Bromoform	< 5.00	ug/L		8/15/2019 18:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L		8/15/2019	18:02
Carbon disulfide	< 2.00	ug/L		8/15/2019	18:02
Carbon Tetrachloride	< 2.00	ug/L		8/15/2019	18:02
Chlorobenzene	< 2.00	ug/L		8/15/2019	18:02
Chloroethane	< 2.00	ug/L		8/15/2019	18:02
Chloroform	< 2.00	ug/L		8/15/2019	18:02
Chloromethane	< 2.00	ug/L	M	8/15/2019	18:02
cis-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	18:02
cis-1,3-Dichloropropene	< 2.00	ug/L		8/15/2019	18:02
Cyclohexane	< 10.0	ug/L		8/15/2019	18:02
Dibromochloromethane	< 2.00	ug/L		8/15/2019	18:02
Dichlorodifluoromethane	< 2.00	ug/L		8/15/2019	18:02
Ethylbenzene	**13.0**	ug/L		8/15/2019	18:02
Freon 113	< 2.00	ug/L		8/15/2019	18:02
Isopropylbenzene	< 2.00	ug/L		8/15/2019	18:02
m,p-Xylene	**6.44**	ug/L		8/15/2019	18:02
Methyl acetate	< 2.00	ug/L		8/15/2019	18:02
Methyl tert-butyl Ether	< 2.00	ug/L		8/15/2019	18:02
Methylcyclohexane	< 2.00	ug/L		8/15/2019	18:02
Methylene chloride	< 5.00	ug/L		8/15/2019	18:02
o-Xylene	< 2.00	ug/L		8/15/2019	18:02
Styrene	< 5.00	ug/L		8/15/2019	18:02
Tetrachloroethene	< 2.00	ug/L		8/15/2019	18:02
Toluene	< 2.00	ug/L		8/15/2019	18:02
trans-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	18:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 193715-03 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L			8/15/2019	18:02
Trichloroethene	< 2.00	ug/L			8/15/2019	18:02
Trichlorofluoromethane	< 2.00	ug/L			8/15/2019	18:02
Vinyl chloride	< 2.00	ug/L		M	8/15/2019	18:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	73.4 - 131		8/15/2019	18:02
4-Bromofluorobenzene	**102**	57.2 - 129		8/15/2019	18:02
Pentafluorobenzene	**92.7**	87 - 112		8/15/2019	18:02
Toluene-D8	**95.2**	78.3 - 115		8/15/2019	18:02

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63639.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.4	ug/L		8/10/2019 01:32
1,2,4,5-Tetrachlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,2,4-Trichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,2-Dichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,3-Dichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
1,4-Dichlorobenzene	< 10.4	ug/L		8/10/2019 01:32
2,2-Oxybis (1-chloropropane)	< 10.4	ug/L		8/10/2019 01:32
2,3,4,6-Tetrachlorophenol	< 10.4	ug/L		8/10/2019 01:32
2,4,5-Trichlorophenol	< 20.9	ug/L		8/10/2019 01:32
2,4,6-Trichlorophenol	< 10.4	ug/L		8/10/2019 01:32
2,4-Dichlorophenol	< 10.4	ug/L		8/10/2019 01:32
2,4-Dimethylphenol	< 20.9	ug/L		8/10/2019 01:32
2,4-Dinitrophenol	< 20.9	ug/L		8/10/2019 01:32
2,4-Dinitrotoluene	< 10.4	ug/L		8/10/2019 01:32
2,6-Dinitrotoluene	< 10.4	ug/L		8/10/2019 01:32
2-Chloronaphthalene	< 10.4	ug/L		8/10/2019 01:32
2-Chlorophenol	< 10.4	ug/L		8/10/2019 01:32
2-Methylnapthalene	< 10.4	ug/L		8/10/2019 01:32
2-Methylphenol	< 10.4	ug/L		8/10/2019 01:32
2-Nitroaniline	< 20.9	ug/L		8/10/2019 01:32
2-Nitrophenol	< 10.4	ug/L		8/10/2019 01:32
3&4-Methylphenol	< 10.4	ug/L		8/10/2019 01:32
3,3'-Dichlorobenzidine	< 10.4	ug/L		8/10/2019 01:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.9	ug/L	8/10/2019	01:32
4,6-Dinitro-2-methylphenol	< 20.9	ug/L	8/10/2019	01:32
4-Bromophenyl phenyl ether	< 10.4	ug/L	8/10/2019	01:32
4-Chloro-3-methylphenol	< 10.4	ug/L	8/10/2019	01:32
4-Chloroaniline	< 10.4	ug/L	8/10/2019	01:32
4-Chlorophenyl phenyl ether	< 10.4	ug/L	8/10/2019	01:32
4-Nitroaniline	< 20.9	ug/L	8/10/2019	01:32
4-Nitrophenol	< 20.9	ug/L	8/10/2019	01:32
Acenaphthene	< 10.4	ug/L	8/10/2019	01:32
Acenaphthylene	< 10.4	ug/L	8/10/2019	01:32
Acetophenone	< 10.4	ug/L	8/10/2019	01:32
Anthracene	< 10.4	ug/L	8/10/2019	01:32
Atrazine	< 10.4	ug/L	8/10/2019	01:32
Benzaldehyde	< 10.4	ug/L	8/10/2019	01:32
Benzo (a) anthracene	< 10.4	ug/L	8/10/2019	01:32
Benzo (a) pyrene	< 10.4	ug/L	8/10/2019	01:32
Benzo (b) fluoranthene	< 10.4	ug/L	8/10/2019	01:32
Benzo (g,h,i) perylene	< 10.4	ug/L	8/10/2019	01:32
Benzo (k) fluoranthene	< 10.4	ug/L	8/10/2019	01:32
Bis (2-chloroethoxy) methane	< 10.4	ug/L	8/10/2019	01:32
Bis (2-chloroethyl) ether	< 10.4	ug/L	8/10/2019	01:32
Bis (2-ethylhexyl) phthalate	< 10.4	ug/L	8/10/2019	01:32
Butylbenzylphthalate	< 10.4	ug/L	8/10/2019	01:32
Caprolactam	< 10.4	ug/L	8/10/2019	01:32
Carbazole	< 10.4	ug/L	8/10/2019	01:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.4	ug/L	8/10/2019	01:32
Dibenz (a,h) anthracene	< 10.4	ug/L	8/10/2019	01:32
Dibenzofuran	< 10.4	ug/L	8/10/2019	01:32
Diethyl phthalate	< 10.4	ug/L	8/10/2019	01:32
Dimethyl phthalate	< 20.9	ug/L	8/10/2019	01:32
Di-n-butyl phthalate	< 10.4	ug/L	8/10/2019	01:32
Di-n-octylphthalate	< 10.4	ug/L	8/10/2019	01:32
Fluoranthene	< 10.4	ug/L	8/10/2019	01:32
Fluorene	< 10.4	ug/L	8/10/2019	01:32
Hexachlorobenzene	< 10.4	ug/L	8/10/2019	01:32
Hexachlorobutadiene	< 10.4	ug/L	8/10/2019	01:32
Hexachlorocyclopentadiene	< 10.4	ug/L	8/10/2019	01:32
Hexachloroethane	< 10.4	ug/L	8/10/2019	01:32
Indeno (1,2,3-cd) pyrene	< 10.4	ug/L	8/10/2019	01:32
Isophorone	< 10.4	ug/L	8/10/2019	01:32
Naphthalene	< 10.4	ug/L	8/10/2019	01:32
Nitrobenzene	< 10.4	ug/L	8/10/2019	01:32
N-Nitroso-di-n-propylamine	< 10.4	ug/L	8/10/2019	01:32
N-Nitrosodiphenylamine	< 10.4	ug/L	8/10/2019	01:32
Pentachlorophenol	< 20.9	ug/L	8/10/2019	01:32
Phenanthrene	< 10.4	ug/L	8/10/2019	01:32
Phenol	< 10.4	ug/L	8/10/2019	01:32
Pyrene	< 10.4	ug/L	8/10/2019	01:32

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.8**	54.2 - 126		8/10/2019	01:32
2-Fluorobiphenyl	**66.0**	37.6 - 102		8/10/2019	01:32
2-Fluorophenol	**49.3**	15.1 - 106		8/10/2019	01:32
Nitrobenzene-d5	**79.0**	53.3 - 103		8/10/2019	01:32
Phenol-d5	**32.8**	10 - 108		8/10/2019	01:32
Terphenyl-d14	**74.4**	61.8 - 114		8/10/2019	01:32

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39835.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 18:29
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:29
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 18:29
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 18:29
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 18:29
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:29
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 18:29
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 18:29
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:29
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 18:29
1,4-Dioxane	< 20.0	ug/L		8/14/2019 18:29
2-Butanone	< 10.0	ug/L		8/14/2019 18:29
2-Hexanone	< 5.00	ug/L		8/14/2019 18:29
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 18:29
Acetone	< 10.0	ug/L		8/14/2019 18:29
Benzene	< 1.00	ug/L		8/14/2019 18:29
Bromochloromethane	< 5.00	ug/L		8/14/2019 18:29
Bromodichloromethane	< 2.00	ug/L		8/14/2019 18:29
Bromoform	< 5.00	ug/L		8/14/2019 18:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	18:29
Carbon disulfide	< 2.00	ug/L	8/14/2019	18:29
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	18:29
Chlorobenzene	< 2.00	ug/L	8/14/2019	18:29
Chloroethane	< 2.00	ug/L	8/14/2019	18:29
Chloroform	< 2.00	ug/L	8/14/2019	18:29
Chloromethane	< 2.00	ug/L	8/14/2019	18:29
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	18:29
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	18:29
Cyclohexane	< 10.0	ug/L	8/14/2019	18:29
Dibromochloromethane	< 2.00	ug/L	8/14/2019	18:29
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	18:29
Ethylbenzene	< 2.00	ug/L	8/14/2019	18:29
Freon 113	< 2.00	ug/L	8/14/2019	18:29
Isopropylbenzene	< 2.00	ug/L	8/14/2019	18:29
m,p-Xylene	< 2.00	ug/L	8/14/2019	18:29
Methyl acetate	< 2.00	ug/L	8/14/2019	18:29
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	18:29
Methylcyclohexane	< 2.00	ug/L	8/14/2019	18:29
Methylene chloride	< 5.00	ug/L	8/14/2019	18:29
o-Xylene	< 2.00	ug/L	8/14/2019	18:29
Styrene	< 5.00	ug/L	8/14/2019	18:29
Tetrachloroethene	< 2.00	ug/L	8/14/2019	18:29
Toluene	< 2.00	ug/L	8/14/2019	18:29
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	18:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 193715-04 **Date Sampled:** 8/1/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	18:29
Trichloroethene	< 2.00	ug/L	8/14/2019	18:29
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	18:29
Vinyl chloride	< 2.00	ug/L	8/14/2019	18:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	73.4 - 131		8/14/2019	18:29
4-Bromofluorobenzene	**96.2**	57.2 - 129		8/14/2019	18:29
Pentafluorobenzene	**89.2**	87 - 112		8/14/2019	18:29
Toluene-D8	**101**	78.3 - 115		8/14/2019	18:29

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63588.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		8/10/2019 02:01
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,2,4-Trichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,2-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,3-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
1,4-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:01
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		8/10/2019 02:01
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		8/10/2019 02:01
2,4,5-Trichlorophenol	< 20.0	ug/L		8/10/2019 02:01
2,4,6-Trichlorophenol	< 10.0	ug/L		8/10/2019 02:01
2,4-Dichlorophenol	< 10.0	ug/L		8/10/2019 02:01
2,4-Dimethylphenol	< 20.0	ug/L		8/10/2019 02:01
2,4-Dinitrophenol	< 20.0	ug/L		8/10/2019 02:01
2,4-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:01
2,6-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:01
2-Chloronaphthalene	< 10.0	ug/L		8/10/2019 02:01
2-Chlorophenol	< 10.0	ug/L		8/10/2019 02:01
2-Methylnapthalene	< 10.0	ug/L		8/10/2019 02:01
2-Methylphenol	< 10.0	ug/L		8/10/2019 02:01
2-Nitroaniline	< 20.0	ug/L		8/10/2019 02:01
2-Nitrophenol	< 10.0	ug/L		8/10/2019 02:01
3&4-Methylphenol	< 10.0	ug/L		8/10/2019 02:01
3,3'-Dichlorobenzidine	< 10.0	ug/L		8/10/2019 02:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.0	ug/L	8/10/2019	02:01
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	8/10/2019	02:01
4-Bromophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:01
4-Chloro-3-methylphenol	< 10.0	ug/L	8/10/2019	02:01
4-Chloroaniline	< 10.0	ug/L	8/10/2019	02:01
4-Chlorophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:01
4-Nitroaniline	< 20.0	ug/L	8/10/2019	02:01
4-Nitrophenol	< 20.0	ug/L	8/10/2019	02:01
Acenaphthene	< 10.0	ug/L	8/10/2019	02:01
Acenaphthylene	< 10.0	ug/L	8/10/2019	02:01
Acetophenone	< 10.0	ug/L	8/10/2019	02:01
Anthracene	< 10.0	ug/L	8/10/2019	02:01
Atrazine	< 10.0	ug/L	8/10/2019	02:01
Benzaldehyde	< 10.0	ug/L	8/10/2019	02:01
Benzo (a) anthracene	< 10.0	ug/L	8/10/2019	02:01
Benzo (a) pyrene	< 10.0	ug/L	8/10/2019	02:01
Benzo (b) fluoranthene	< 10.0	ug/L	8/10/2019	02:01
Benzo (g,h,i) perylene	< 10.0	ug/L	8/10/2019	02:01
Benzo (k) fluoranthene	< 10.0	ug/L	8/10/2019	02:01
Bis (2-chloroethoxy) methane	< 10.0	ug/L	8/10/2019	02:01
Bis (2-chloroethyl) ether	< 10.0	ug/L	8/10/2019	02:01
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	8/10/2019	02:01
Butylbenzylphthalate	< 10.0	ug/L	8/10/2019	02:01
Caprolactam	< 10.0	ug/L	8/10/2019	02:01
Carbazole	< 10.0	ug/L	8/10/2019	02:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.0	ug/L	8/10/2019	02:01
Dibenz (a,h) anthracene	< 10.0	ug/L	8/10/2019	02:01
Dibenzofuran	< 10.0	ug/L	8/10/2019	02:01
Diethyl phthalate	< 10.0	ug/L	8/10/2019	02:01
Dimethyl phthalate	< 20.0	ug/L	8/10/2019	02:01
Di-n-butyl phthalate	< 10.0	ug/L	8/10/2019	02:01
Di-n-octylphthalate	< 10.0	ug/L	8/10/2019	02:01
Fluoranthene	< 10.0	ug/L	8/10/2019	02:01
Fluorene	< 10.0	ug/L	8/10/2019	02:01
Hexachlorobenzene	< 10.0	ug/L	8/10/2019	02:01
Hexachlorobutadiene	< 10.0	ug/L	8/10/2019	02:01
Hexachlorocyclopentadiene	< 10.0	ug/L	8/10/2019	02:01
Hexachloroethane	< 10.0	ug/L	8/10/2019	02:01
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	8/10/2019	02:01
Isophorone	< 10.0	ug/L	8/10/2019	02:01
Naphthalene	< 10.0	ug/L	8/10/2019	02:01
Nitrobenzene	< 10.0	ug/L	8/10/2019	02:01
N-Nitroso-di-n-propylamine	< 10.0	ug/L	8/10/2019	02:01
N-Nitrosodiphenylamine	< 10.0	ug/L	8/10/2019	02:01
Pentachlorophenol	< 20.0	ug/L	8/10/2019	02:01
Phenanthrene	< 10.0	ug/L	8/10/2019	02:01
Phenol	< 10.0	ug/L	8/10/2019	02:01
Pyrene	< 10.0	ug/L	8/10/2019	02:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.1**	54.2 - 126		8/10/2019	02:01
2-Fluorobiphenyl	**47.7**	37.6 - 102		8/10/2019	02:01
2-Fluorophenol	**42.7**	15.1 - 106		8/10/2019	02:01
Nitrobenzene-d5	**66.4**	53.3 - 103		8/10/2019	02:01
Phenol-d5	**29.5**	10 - 108		8/10/2019	02:01
Terphenyl-d14	**71.1**	61.8 - 114		8/10/2019	02:01

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39836.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1,2-Trichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1-Dichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,1-Dichloroethene	< 2.00	ug/L		8/15/2019 19:09
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:09
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/15/2019 19:09
1,2-Dibromoethane	< 2.00	ug/L		8/15/2019 19:09
1,2-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:09
1,2-Dichloroethane	< 2.00	ug/L		8/15/2019 19:09
1,2-Dichloropropane	< 2.00	ug/L		8/15/2019 19:09
1,3-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:09
1,4-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:09
1,4-Dioxane	< 20.0	ug/L		8/15/2019 19:09
2-Butanone	< 10.0	ug/L		8/15/2019 19:09
2-Hexanone	< 5.00	ug/L		8/15/2019 19:09
4-Methyl-2-pentanone	< 5.00	ug/L		8/15/2019 19:09
Acetone	< 10.0	ug/L		8/15/2019 19:09
Benzene	< 1.00	ug/L		8/15/2019 19:09
Bromochloromethane	< 5.00	ug/L		8/15/2019 19:09
Bromodichloromethane	< 2.00	ug/L		8/15/2019 19:09
Bromoform	< 5.00	ug/L		8/15/2019 19:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/15/2019	19:09
Carbon disulfide	< 2.00	ug/L	8/15/2019	19:09
Carbon Tetrachloride	< 2.00	ug/L	8/15/2019	19:09
Chlorobenzene	< 2.00	ug/L	8/15/2019	19:09
Chloroethane	< 2.00	ug/L	8/15/2019	19:09
Chloroform	< 2.00	ug/L	8/15/2019	19:09
Chloromethane	< 2.00	ug/L	8/15/2019	19:09
cis-1,2-Dichloroethene	< 2.00	ug/L	8/15/2019	19:09
cis-1,3-Dichloropropene	< 2.00	ug/L	8/15/2019	19:09
Cyclohexane	< 10.0	ug/L	8/15/2019	19:09
Dibromochloromethane	< 2.00	ug/L	8/15/2019	19:09
Dichlorodifluoromethane	< 2.00	ug/L	8/15/2019	19:09
Ethylbenzene	< 2.00	ug/L	8/15/2019	19:09
Freon 113	< 2.00	ug/L	8/15/2019	19:09
Isopropylbenzene	< 2.00	ug/L	8/15/2019	19:09
m,p-Xylene	< 2.00	ug/L	8/15/2019	19:09
Methyl acetate	< 2.00	ug/L	8/15/2019	19:09
Methyl tert-butyl Ether	**48.7**	ug/L	8/15/2019	19:09
Methylcyclohexane	< 2.00	ug/L	8/15/2019	19:09
Methylene chloride	< 5.00	ug/L	8/15/2019	19:09
o-Xylene	< 2.00	ug/L	8/15/2019	19:09
Styrene	< 5.00	ug/L	8/15/2019	19:09
Tetrachloroethene	< 2.00	ug/L	8/15/2019	19:09
Toluene	< 2.00	ug/L	8/15/2019	19:09
trans-1,2-Dichloroethene	< 2.00	ug/L	8/15/2019	19:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 193715-05 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/15/2019	19:09
Trichloroethene	< 2.00	ug/L	8/15/2019	19:09
Trichlorofluoromethane	< 2.00	ug/L	8/15/2019	19:09
Vinyl chloride	< 2.00	ug/L	8/15/2019	19:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	73.4 - 131		8/15/2019	19:09
4-Bromofluorobenzene	**98.4**	57.2 - 129		8/15/2019	19:09
Pentafluorobenzene	**91.3**	87 - 112		8/15/2019	19:09
Toluene-D8	**95.4**	78.3 - 115		8/15/2019	19:09

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63642.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		8/10/2019 02:29
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,2,4-Trichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,2-Dichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,3-Dichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
1,4-Dichlorobenzene	< 10.1	ug/L		8/10/2019 02:29
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		8/10/2019 02:29
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		8/10/2019 02:29
2,4,5-Trichlorophenol	< 20.1	ug/L		8/10/2019 02:29
2,4,6-Trichlorophenol	< 10.1	ug/L		8/10/2019 02:29
2,4-Dichlorophenol	< 10.1	ug/L		8/10/2019 02:29
2,4-Dimethylphenol	< 20.1	ug/L		8/10/2019 02:29
2,4-Dinitrophenol	< 20.1	ug/L		8/10/2019 02:29
2,4-Dinitrotoluene	< 10.1	ug/L		8/10/2019 02:29
2,6-Dinitrotoluene	< 10.1	ug/L		8/10/2019 02:29
2-Chloronaphthalene	< 10.1	ug/L		8/10/2019 02:29
2-Chlorophenol	< 10.1	ug/L		8/10/2019 02:29
2-Methylnapthalene	< 10.1	ug/L		8/10/2019 02:29
2-Methylphenol	< 10.1	ug/L		8/10/2019 02:29
2-Nitroaniline	< 20.1	ug/L		8/10/2019 02:29
2-Nitrophenol	< 10.1	ug/L		8/10/2019 02:29
3&4-Methylphenol	< 10.1	ug/L		8/10/2019 02:29
3,3'-Dichlorobenzidine	< 10.1	ug/L		8/10/2019 02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.1	ug/L	8/10/2019	02:29
4,6-Dinitro-2-methylphenol	< 20.1	ug/L	8/10/2019	02:29
4-Bromophenyl phenyl ether	< 10.1	ug/L	8/10/2019	02:29
4-Chloro-3-methylphenol	< 10.1	ug/L	8/10/2019	02:29
4-Chloroaniline	< 10.1	ug/L	8/10/2019	02:29
4-Chlorophenyl phenyl ether	< 10.1	ug/L	8/10/2019	02:29
4-Nitroaniline	< 20.1	ug/L	8/10/2019	02:29
4-Nitrophenol	< 20.1	ug/L	8/10/2019	02:29
Acenaphthene	< 10.1	ug/L	8/10/2019	02:29
Acenaphthylene	< 10.1	ug/L	8/10/2019	02:29
Acetophenone	< 10.1	ug/L	8/10/2019	02:29
Anthracene	< 10.1	ug/L	8/10/2019	02:29
Atrazine	< 10.1	ug/L	8/10/2019	02:29
Benzaldehyde	< 10.1	ug/L	8/10/2019	02:29
Benzo (a) anthracene	< 10.1	ug/L	8/10/2019	02:29
Benzo (a) pyrene	< 10.1	ug/L	8/10/2019	02:29
Benzo (b) fluoranthene	< 10.1	ug/L	8/10/2019	02:29
Benzo (g,h,i) perylene	< 10.1	ug/L	8/10/2019	02:29
Benzo (k) fluoranthene	< 10.1	ug/L	8/10/2019	02:29
Bis (2-chloroethoxy) methane	< 10.1	ug/L	8/10/2019	02:29
Bis (2-chloroethyl) ether	< 10.1	ug/L	8/10/2019	02:29
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	8/10/2019	02:29
Butylbenzylphthalate	< 10.1	ug/L	8/10/2019	02:29
Caprolactam	< 10.1	ug/L	8/10/2019	02:29
Carbazole	< 10.1	ug/L	8/10/2019	02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.1	ug/L	8/10/2019	02:29
Dibenz (a,h) anthracene	< 10.1	ug/L	8/10/2019	02:29
Dibenzofuran	< 10.1	ug/L	8/10/2019	02:29
Diethyl phthalate	< 10.1	ug/L	8/10/2019	02:29
Dimethyl phthalate	< 20.1	ug/L	8/10/2019	02:29
Di-n-butyl phthalate	< 10.1	ug/L	8/10/2019	02:29
Di-n-octylphthalate	< 10.1	ug/L	8/10/2019	02:29
Fluoranthene	< 10.1	ug/L	8/10/2019	02:29
Fluorene	< 10.1	ug/L	8/10/2019	02:29
Hexachlorobenzene	< 10.1	ug/L	8/10/2019	02:29
Hexachlorobutadiene	< 10.1	ug/L	8/10/2019	02:29
Hexachlorocyclopentadiene	< 10.1	ug/L	8/10/2019	02:29
Hexachloroethane	< 10.1	ug/L	8/10/2019	02:29
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	8/10/2019	02:29
Isophorone	< 10.1	ug/L	8/10/2019	02:29
Naphthalene	< 10.1	ug/L	8/10/2019	02:29
Nitrobenzene	< 10.1	ug/L	8/10/2019	02:29
N-Nitroso-di-n-propylamine	< 10.1	ug/L	8/10/2019	02:29
N-Nitrosodiphenylamine	< 10.1	ug/L	8/10/2019	02:29
Pentachlorophenol	< 20.1	ug/L	8/10/2019	02:29
Phenanthrene	< 10.1	ug/L	8/10/2019	02:29
Phenol	< 10.1	ug/L	8/10/2019	02:29
Pyrene	< 10.1	ug/L	8/10/2019	02:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.7**	54.2 - 126		8/10/2019	02:29
2-Fluorobiphenyl	**62.4**	37.6 - 102		8/10/2019	02:29
2-Fluorophenol	**46.1**	15.1 - 106		8/10/2019	02:29
Nitrobenzene-d5	**79.7**	53.3 - 103		8/10/2019	02:29
Phenol-d5	**30.7**	10 - 108		8/10/2019	02:29
Terphenyl-d14	**78.2**	61.8 - 114		8/10/2019	02:29

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39837.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 19:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 19:14
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 19:14
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:14
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 19:14
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 19:14
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:14
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:14
1,4-Dioxane	< 20.0	ug/L		8/14/2019 19:14
2-Butanone	< 10.0	ug/L		8/14/2019 19:14
2-Hexanone	< 5.00	ug/L		8/14/2019 19:14
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 19:14
Acetone	< 10.0	ug/L		8/14/2019 19:14
Benzene	**3.09**	ug/L		8/14/2019 19:14
Bromochloromethane	< 5.00	ug/L		8/14/2019 19:14
Bromodichloromethane	< 2.00	ug/L		8/14/2019 19:14
Bromoform	< 5.00	ug/L		8/14/2019 19:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	19:14
Carbon disulfide	< 2.00	ug/L	8/14/2019	19:14
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	19:14
Chlorobenzene	< 2.00	ug/L	8/14/2019	19:14
Chloroethane	< 2.00	ug/L	8/14/2019	19:14
Chloroform	< 2.00	ug/L	8/14/2019	19:14
Chloromethane	< 2.00	ug/L	8/14/2019	19:14
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:14
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:14
Cyclohexane	< 10.0	ug/L	8/14/2019	19:14
Dibromochloromethane	< 2.00	ug/L	8/14/2019	19:14
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	19:14
Ethylbenzene	< 2.00	ug/L	8/14/2019	19:14
Freon 113	< 2.00	ug/L	8/14/2019	19:14
Isopropylbenzene	< 2.00	ug/L	8/14/2019	19:14
m,p-Xylene	< 2.00	ug/L	8/14/2019	19:14
Methyl acetate	< 2.00	ug/L	8/14/2019	19:14
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	19:14
Methylcyclohexane	< 2.00	ug/L	8/14/2019	19:14
Methylene chloride	< 5.00	ug/L	8/14/2019	19:14
o-Xylene	< 2.00	ug/L	8/14/2019	19:14
Styrene	< 5.00	ug/L	8/14/2019	19:14
Tetrachloroethene	< 2.00	ug/L	8/14/2019	19:14
Toluene	< 2.00	ug/L	8/14/2019	19:14
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-4
Lab Sample ID: 193715-06 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:14
Trichloroethene	< 2.00	ug/L	8/14/2019	19:14
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	19:14
Vinyl chloride	< 2.00	ug/L	8/14/2019	19:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	73.4 - 131		8/14/2019	19:14
4-Bromofluorobenzene	**105**	57.2 - 129		8/14/2019	19:14
Pentafluorobenzene	**90.2**	87 - 112		8/14/2019	19:14
Toluene-D8	**105**	78.3 - 115		8/14/2019	19:14

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63590.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		8/10/2019 02:58
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,2,4-Trichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,2-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,3-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
1,4-Dichlorobenzene	< 10.0	ug/L		8/10/2019 02:58
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		8/10/2019 02:58
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		8/10/2019 02:58
2,4,5-Trichlorophenol	< 20.0	ug/L		8/10/2019 02:58
2,4,6-Trichlorophenol	< 10.0	ug/L		8/10/2019 02:58
2,4-Dichlorophenol	< 10.0	ug/L		8/10/2019 02:58
2,4-Dimethylphenol	< 20.0	ug/L		8/10/2019 02:58
2,4-Dinitrophenol	< 20.0	ug/L		8/10/2019 02:58
2,4-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:58
2,6-Dinitrotoluene	< 10.0	ug/L		8/10/2019 02:58
2-Chloronaphthalene	< 10.0	ug/L		8/10/2019 02:58
2-Chlorophenol	< 10.0	ug/L		8/10/2019 02:58
2-Methylnapthalene	< 10.0	ug/L		8/10/2019 02:58
2-Methylphenol	< 10.0	ug/L		8/10/2019 02:58
2-Nitroaniline	< 20.0	ug/L		8/10/2019 02:58
2-Nitrophenol	< 10.0	ug/L		8/10/2019 02:58
3&4-Methylphenol	< 10.0	ug/L		8/10/2019 02:58
3,3'-Dichlorobenzidine	< 10.0	ug/L		8/10/2019 02:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.0	ug/L	8/10/2019	02:58
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	8/10/2019	02:58
4-Bromophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:58
4-Chloro-3-methylphenol	< 10.0	ug/L	8/10/2019	02:58
4-Chloroaniline	< 10.0	ug/L	8/10/2019	02:58
4-Chlorophenyl phenyl ether	< 10.0	ug/L	8/10/2019	02:58
4-Nitroaniline	< 20.0	ug/L	8/10/2019	02:58
4-Nitrophenol	< 20.0	ug/L	8/10/2019	02:58
Acenaphthene	< 10.0	ug/L	8/10/2019	02:58
Acenaphthylene	< 10.0	ug/L	8/10/2019	02:58
Acetophenone	< 10.0	ug/L	8/10/2019	02:58
Anthracene	< 10.0	ug/L	8/10/2019	02:58
Atrazine	< 10.0	ug/L	8/10/2019	02:58
Benzaldehyde	< 10.0	ug/L	8/10/2019	02:58
Benzo (a) anthracene	< 10.0	ug/L	8/10/2019	02:58
Benzo (a) pyrene	< 10.0	ug/L	8/10/2019	02:58
Benzo (b) fluoranthene	< 10.0	ug/L	8/10/2019	02:58
Benzo (g,h,i) perylene	< 10.0	ug/L	8/10/2019	02:58
Benzo (k) fluoranthene	< 10.0	ug/L	8/10/2019	02:58
Bis (2-chloroethoxy) methane	< 10.0	ug/L	8/10/2019	02:58
Bis (2-chloroethyl) ether	< 10.0	ug/L	8/10/2019	02:58
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	8/10/2019	02:58
Butylbenzylphthalate	< 10.0	ug/L	8/10/2019	02:58
Caprolactam	< 10.0	ug/L	8/10/2019	02:58
Carbazole	< 10.0	ug/L	8/10/2019	02:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.0	ug/L	8/10/2019	02:58
Dibenz (a,h) anthracene	< 10.0	ug/L	8/10/2019	02:58
Dibenzofuran	< 10.0	ug/L	8/10/2019	02:58
Diethyl phthalate	< 10.0	ug/L	8/10/2019	02:58
Dimethyl phthalate	< 20.0	ug/L	8/10/2019	02:58
Di-n-butyl phthalate	< 10.0	ug/L	8/10/2019	02:58
Di-n-octylphthalate	< 10.0	ug/L	8/10/2019	02:58
Fluoranthene	< 10.0	ug/L	8/10/2019	02:58
Fluorene	< 10.0	ug/L	8/10/2019	02:58
Hexachlorobenzene	< 10.0	ug/L	8/10/2019	02:58
Hexachlorobutadiene	< 10.0	ug/L	8/10/2019	02:58
Hexachlorocyclopentadiene	< 10.0	ug/L	8/10/2019	02:58
Hexachloroethane	< 10.0	ug/L	8/10/2019	02:58
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	8/10/2019	02:58
Isophorone	< 10.0	ug/L	8/10/2019	02:58
Naphthalene	< 10.0	ug/L	8/10/2019	02:58
Nitrobenzene	< 10.0	ug/L	8/10/2019	02:58
N-Nitroso-di-n-propylamine	< 10.0	ug/L	8/10/2019	02:58
N-Nitrosodiphenylamine	< 10.0	ug/L	8/10/2019	02:58
Pentachlorophenol	< 20.0	ug/L	8/10/2019	02:58
Phenanthrene	< 10.0	ug/L	8/10/2019	02:58
Phenol	< 10.0	ug/L	8/10/2019	02:58
Pyrene	< 10.0	ug/L	8/10/2019	02:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.2**	54.2 - 126		8/10/2019	02:58
2-Fluorobiphenyl	**53.5**	37.6 - 102		8/10/2019	02:58
2-Fluorophenol	**43.8**	15.1 - 106		8/10/2019	02:58
Nitrobenzene-d5	**69.6**	53.3 - 103		8/10/2019	02:58
Phenol-d5	**29.7**	10 - 108		8/10/2019	02:58
Terphenyl-d14	**71.9**	61.8 - 114		8/10/2019	02:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39838.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1,2-Trichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1-Dichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,1-Dichloroethene	< 2.00	ug/L		8/15/2019 19:31
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:31
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/15/2019 19:31
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/15/2019 19:31
1,2-Dibromoethane	< 2.00	ug/L		8/15/2019 19:31
1,2-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:31
1,2-Dichloroethane	< 2.00	ug/L		8/15/2019 19:31
1,2-Dichloropropane	< 2.00	ug/L		8/15/2019 19:31
1,3-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:31
1,4-Dichlorobenzene	< 2.00	ug/L		8/15/2019 19:31
1,4-Dioxane	< 20.0	ug/L		8/15/2019 19:31
2-Butanone	< 10.0	ug/L		8/15/2019 19:31
2-Hexanone	< 5.00	ug/L		8/15/2019 19:31
4-Methyl-2-pentanone	< 5.00	ug/L		8/15/2019 19:31
Acetone	**34.7**	ug/L		8/15/2019 19:31
Benzene	< 1.00	ug/L		8/15/2019 19:31
Bromochloromethane	< 5.00	ug/L		8/15/2019 19:31
Bromodichloromethane	< 2.00	ug/L		8/15/2019 19:31
Bromoform	< 5.00	ug/L		8/15/2019 19:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L		8/15/2019	19:31
Carbon disulfide	< 2.00	ug/L		8/15/2019	19:31
Carbon Tetrachloride	< 2.00	ug/L		8/15/2019	19:31
Chlorobenzene	< 2.00	ug/L		8/15/2019	19:31
Chloroethane	< 2.00	ug/L		8/15/2019	19:31
Chloroform	< 2.00	ug/L		8/15/2019	19:31
Chloromethane	< 2.00	ug/L		8/15/2019	19:31
cis-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	19:31
cis-1,3-Dichloropropene	< 2.00	ug/L		8/15/2019	19:31
Cyclohexane	< 10.0	ug/L		8/15/2019	19:31
Dibromochloromethane	< 2.00	ug/L		8/15/2019	19:31
Dichlorodifluoromethane	< 2.00	ug/L		8/15/2019	19:31
Ethylbenzene	**1.12**	ug/L	J	8/15/2019	19:31
Freon 113	< 2.00	ug/L		8/15/2019	19:31
Isopropylbenzene	< 2.00	ug/L		8/15/2019	19:31
m,p-Xylene	< 2.00	ug/L		8/15/2019	19:31
Methyl acetate	< 2.00	ug/L		8/15/2019	19:31
Methyl tert-butyl Ether	< 2.00	ug/L		8/15/2019	19:31
Methylcyclohexane	< 2.00	ug/L		8/15/2019	19:31
Methylene chloride	< 5.00	ug/L		8/15/2019	19:31
o-Xylene	< 2.00	ug/L		8/15/2019	19:31
Styrene	< 5.00	ug/L		8/15/2019	19:31
Tetrachloroethene	< 2.00	ug/L		8/15/2019	19:31
Toluene	< 2.00	ug/L		8/15/2019	19:31
trans-1,2-Dichloroethene	< 2.00	ug/L		8/15/2019	19:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 193715-07 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/15/2019	19:31
Trichloroethene	< 2.00	ug/L	8/15/2019	19:31
Trichlorofluoromethane	< 2.00	ug/L	8/15/2019	19:31
Vinyl chloride	< 2.00	ug/L	8/15/2019	19:31

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	73.4 - 131		8/15/2019	19:31
4-Bromofluorobenzene	**94.6**	57.2 - 129		8/15/2019	19:31
Pentafluorobenzene	**94.0**	87 - 112		8/15/2019	19:31
Toluene-D8	**97.8**	78.3 - 115		8/15/2019	19:31

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63643.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		8/10/2019 03:27
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,2,4-Trichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,2-Dichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,3-Dichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
1,4-Dichlorobenzene	< 10.2	ug/L		8/10/2019 03:27
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		8/10/2019 03:27
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		8/10/2019 03:27
2,4,5-Trichlorophenol	< 20.4	ug/L		8/10/2019 03:27
2,4,6-Trichlorophenol	< 10.2	ug/L		8/10/2019 03:27
2,4-Dichlorophenol	< 10.2	ug/L		8/10/2019 03:27
2,4-Dimethylphenol	< 20.4	ug/L		8/10/2019 03:27
2,4-Dinitrophenol	< 20.4	ug/L		8/10/2019 03:27
2,4-Dinitrotoluene	< 10.2	ug/L		8/10/2019 03:27
2,6-Dinitrotoluene	< 10.2	ug/L		8/10/2019 03:27
2-Chloronaphthalene	< 10.2	ug/L		8/10/2019 03:27
2-Chlorophenol	< 10.2	ug/L		8/10/2019 03:27
2-Methylnapthalene	< 10.2	ug/L		8/10/2019 03:27
2-Methylphenol	< 10.2	ug/L		8/10/2019 03:27
2-Nitroaniline	< 20.4	ug/L		8/10/2019 03:27
2-Nitrophenol	< 10.2	ug/L		8/10/2019 03:27
3&4-Methylphenol	< 10.2	ug/L		8/10/2019 03:27
3,3'-Dichlorobenzidine	< 10.2	ug/L		8/10/2019 03:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.4	ug/L	8/10/2019	03:27
4,6-Dinitro-2-methylphenol	< 20.4	ug/L	8/10/2019	03:27
4-Bromophenyl phenyl ether	< 10.2	ug/L	8/10/2019	03:27
4-Chloro-3-methylphenol	< 10.2	ug/L	8/10/2019	03:27
4-Chloroaniline	< 10.2	ug/L	8/10/2019	03:27
4-Chlorophenyl phenyl ether	< 10.2	ug/L	8/10/2019	03:27
4-Nitroaniline	< 20.4	ug/L	8/10/2019	03:27
4-Nitrophenol	< 20.4	ug/L	8/10/2019	03:27
Acenaphthene	< 10.2	ug/L	8/10/2019	03:27
Acenaphthylene	< 10.2	ug/L	8/10/2019	03:27
Acetophenone	< 10.2	ug/L	8/10/2019	03:27
Anthracene	< 10.2	ug/L	8/10/2019	03:27
Atrazine	< 10.2	ug/L	8/10/2019	03:27
Benzaldehyde	< 10.2	ug/L	8/10/2019	03:27
Benzo (a) anthracene	< 10.2	ug/L	8/10/2019	03:27
Benzo (a) pyrene	< 10.2	ug/L	8/10/2019	03:27
Benzo (b) fluoranthene	< 10.2	ug/L	8/10/2019	03:27
Benzo (g,h,i) perylene	< 10.2	ug/L	8/10/2019	03:27
Benzo (k) fluoranthene	< 10.2	ug/L	8/10/2019	03:27
Bis (2-chloroethoxy) methane	< 10.2	ug/L	8/10/2019	03:27
Bis (2-chloroethyl) ether	< 10.2	ug/L	8/10/2019	03:27
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	8/10/2019	03:27
Butylbenzylphthalate	< 10.2	ug/L	8/10/2019	03:27
Caprolactam	< 10.2	ug/L	8/10/2019	03:27
Carbazole	< 10.2	ug/L	8/10/2019	03:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Chrysene	< 10.2	ug/L	8/10/2019	03:27
Dibenz (a,h) anthracene	< 10.2	ug/L	8/10/2019	03:27
Dibenzofuran	< 10.2	ug/L	8/10/2019	03:27
Diethyl phthalate	< 10.2	ug/L	8/10/2019	03:27
Dimethyl phthalate	< 20.4	ug/L	8/10/2019	03:27
Di-n-butyl phthalate	< 10.2	ug/L	8/10/2019	03:27
Di-n-octylphthalate	< 10.2	ug/L	8/10/2019	03:27
Fluoranthene	< 10.2	ug/L	8/10/2019	03:27
Fluorene	< 10.2	ug/L	8/10/2019	03:27
Hexachlorobenzene	< 10.2	ug/L	8/10/2019	03:27
Hexachlorobutadiene	< 10.2	ug/L	8/10/2019	03:27
Hexachlorocyclopentadiene	< 10.2	ug/L	8/10/2019	03:27
Hexachloroethane	< 10.2	ug/L	8/10/2019	03:27
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	8/10/2019	03:27
Isophorone	< 10.2	ug/L	8/10/2019	03:27
Naphthalene	< 10.2	ug/L	8/10/2019	03:27
Nitrobenzene	< 10.2	ug/L	8/10/2019	03:27
N-Nitroso-di-n-propylamine	< 10.2	ug/L	8/10/2019	03:27
N-Nitrosodiphenylamine	< 10.2	ug/L	8/10/2019	03:27
Pentachlorophenol	< 20.4	ug/L	8/10/2019	03:27
Phenanthrene	< 10.2	ug/L	8/10/2019	03:27
Phenol	< 10.2	ug/L	8/10/2019	03:27
Pyrene	< 10.2	ug/L	8/10/2019	03:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**83.4**	54.2 - 126		8/10/2019	03:27
2-Fluorobiphenyl	**69.4**	37.6 - 102		8/10/2019	03:27
2-Fluorophenol	**41.1**	15.1 - 106		8/10/2019	03:27
Nitrobenzene-d5	**82.5**	53.3 - 103		8/10/2019	03:27
Phenol-d5	**25.7**	10 - 108		8/10/2019	03:27
Terphenyl-d14	**72.7**	61.8 - 114		8/10/2019	03:27

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39839.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 19:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 19:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 19:59
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 19:59
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:59
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 19:59
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 19:59
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:59
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 19:59
1,4-Dioxane	< 20.0	ug/L		8/14/2019 19:59
2-Butanone	< 10.0	ug/L		8/14/2019 19:59
2-Hexanone	< 5.00	ug/L		8/14/2019 19:59
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 19:59
Acetone	< 10.0	ug/L		8/14/2019 19:59
Benzene	**2.03**	ug/L		8/14/2019 19:59
Bromochloromethane	< 5.00	ug/L		8/14/2019 19:59
Bromodichloromethane	< 2.00	ug/L		8/14/2019 19:59
Bromoform	< 5.00	ug/L		8/14/2019 19:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	19:59
Carbon disulfide	< 2.00	ug/L	8/14/2019	19:59
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	19:59
Chlorobenzene	< 2.00	ug/L	8/14/2019	19:59
Chloroethane	< 2.00	ug/L	8/14/2019	19:59
Chloroform	< 2.00	ug/L	8/14/2019	19:59
Chloromethane	< 2.00	ug/L	8/14/2019	19:59
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:59
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:59
Cyclohexane	< 10.0	ug/L	8/14/2019	19:59
Dibromochloromethane	< 2.00	ug/L	8/14/2019	19:59
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	19:59
Ethylbenzene	< 2.00	ug/L	8/14/2019	19:59
Freon 113	< 2.00	ug/L	8/14/2019	19:59
Isopropylbenzene	**25.5**	ug/L	8/14/2019	19:59
m,p-Xylene	< 2.00	ug/L	8/14/2019	19:59
Methyl acetate	< 2.00	ug/L	8/14/2019	19:59
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	19:59
Methylcyclohexane	< 2.00	ug/L	8/14/2019	19:59
Methylene chloride	< 5.00	ug/L	8/14/2019	19:59
o-Xylene	< 2.00	ug/L	8/14/2019	19:59
Styrene	< 5.00	ug/L	8/14/2019	19:59
Tetrachloroethene	< 2.00	ug/L	8/14/2019	19:59
Toluene	< 2.00	ug/L	8/14/2019	19:59
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	19:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 193715-08 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	19:59
Trichloroethene	< 2.00	ug/L	8/14/2019	19:59
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	19:59
Vinyl chloride	< 2.00	ug/L	8/14/2019	19:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	73.4 - 131		8/14/2019	19:59
4-Bromofluorobenzene	**350**	57.2 - 129	*	8/14/2019	19:59
Pentafluorobenzene	**90.1**	87 - 112		8/14/2019	19:59
Toluene-D8	**203**	78.3 - 115	*	8/14/2019	19:59

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63592.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		8/10/2019 03:55
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,2,4-Trichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,2-Dichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,3-Dichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
1,4-Dichlorobenzene	< 10.3	ug/L		8/10/2019 03:55
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		8/10/2019 03:55
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		8/10/2019 03:55
2,4,5-Trichlorophenol	< 20.6	ug/L		8/10/2019 03:55
2,4,6-Trichlorophenol	< 10.3	ug/L		8/10/2019 03:55
2,4-Dichlorophenol	< 10.3	ug/L		8/10/2019 03:55
2,4-Dimethylphenol	< 20.6	ug/L		8/10/2019 03:55
2,4-Dinitrophenol	< 20.6	ug/L		8/10/2019 03:55
2,4-Dinitrotoluene	< 10.3	ug/L		8/10/2019 03:55
2,6-Dinitrotoluene	< 10.3	ug/L		8/10/2019 03:55
2-Chloronaphthalene	< 10.3	ug/L		8/10/2019 03:55
2-Chlorophenol	< 10.3	ug/L		8/10/2019 03:55
2-Methylnapthalene	< 10.3	ug/L		8/10/2019 03:55
2-Methylphenol	< 10.3	ug/L		8/10/2019 03:55
2-Nitroaniline	< 20.6	ug/L		8/10/2019 03:55
2-Nitrophenol	< 10.3	ug/L		8/10/2019 03:55
3&4-Methylphenol	< 10.3	ug/L		8/10/2019 03:55
3,3'-Dichlorobenzidine	< 10.3	ug/L		8/10/2019 03:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

3-Nitroaniline	< 20.6	ug/L	8/10/2019	03:55
4,6-Dinitro-2-methylphenol	< 20.6	ug/L	8/10/2019	03:55
4-Bromophenyl phenyl ether	< 10.3	ug/L	8/10/2019	03:55
4-Chloro-3-methylphenol	< 10.3	ug/L	8/10/2019	03:55
4-Chloroaniline	< 10.3	ug/L	8/10/2019	03:55
4-Chlorophenyl phenyl ether	< 10.3	ug/L	8/10/2019	03:55
4-Nitroaniline	< 20.6	ug/L	8/10/2019	03:55
4-Nitrophenol	< 20.6	ug/L	8/10/2019	03:55
Acenaphthene	< 10.3	ug/L	8/10/2019	03:55
Acenaphthylene	< 10.3	ug/L	8/10/2019	03:55
Acetophenone	< 10.3	ug/L	8/10/2019	03:55
Anthracene	< 10.3	ug/L	8/10/2019	03:55
Atrazine	< 10.3	ug/L	8/10/2019	03:55
Benzaldehyde	< 10.3	ug/L	8/10/2019	03:55
Benzo (a) anthracene	< 10.3	ug/L	8/10/2019	03:55
Benzo (a) pyrene	< 10.3	ug/L	8/10/2019	03:55
Benzo (b) fluoranthene	< 10.3	ug/L	8/10/2019	03:55
Benzo (g,h,i) perylene	< 10.3	ug/L	8/10/2019	03:55
Benzo (k) fluoranthene	< 10.3	ug/L	8/10/2019	03:55
Bis (2-chloroethoxy) methane	< 10.3	ug/L	8/10/2019	03:55
Bis (2-chloroethyl) ether	< 10.3	ug/L	8/10/2019	03:55
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	8/10/2019	03:55
Butylbenzylphthalate	< 10.3	ug/L	8/10/2019	03:55
Caprolactam	< 10.3	ug/L	8/10/2019	03:55
Carbazole	< 10.3	ug/L	8/10/2019	03:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09
Matrix: Water
Date Sampled: 8/2/2019
Date Received: 8/5/2019

Chrysene	< 10.3	ug/L	8/10/2019	03:55
Dibenz (a,h) anthracene	< 10.3	ug/L	8/10/2019	03:55
Dibenzofuran	< 10.3	ug/L	8/10/2019	03:55
Diethyl phthalate	< 10.3	ug/L	8/10/2019	03:55
Dimethyl phthalate	< 20.6	ug/L	8/10/2019	03:55
Di-n-butyl phthalate	< 10.3	ug/L	8/10/2019	03:55
Di-n-octylphthalate	< 10.3	ug/L	8/10/2019	03:55
Fluoranthene	< 10.3	ug/L	8/10/2019	03:55
Fluorene	< 10.3	ug/L	8/10/2019	03:55
Hexachlorobenzene	< 10.3	ug/L	8/10/2019	03:55
Hexachlorobutadiene	< 10.3	ug/L	8/10/2019	03:55
Hexachlorocyclopentadiene	< 10.3	ug/L	8/10/2019	03:55
Hexachloroethane	< 10.3	ug/L	8/10/2019	03:55
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	8/10/2019	03:55
Isophorone	< 10.3	ug/L	8/10/2019	03:55
Naphthalene	< 10.3	ug/L	8/10/2019	03:55
Nitrobenzene	< 10.3	ug/L	8/10/2019	03:55
N-Nitroso-di-n-propylamine	< 10.3	ug/L	8/10/2019	03:55
N-Nitrosodiphenylamine	< 10.3	ug/L	8/10/2019	03:55
Pentachlorophenol	< 20.6	ug/L	8/10/2019	03:55
Phenanthrene	< 10.3	ug/L	8/10/2019	03:55
Phenol	< 10.3	ug/L	8/10/2019	03:55
Pyrene	< 10.3	ug/L	8/10/2019	03:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.6**	54.2 - 126		8/10/2019	03:55
2-Fluorobiphenyl	**70.7**	37.6 - 102		8/10/2019	03:55
2-Fluorophenol	**46.4**	15.1 - 106		8/10/2019	03:55
Nitrobenzene-d5	**79.4**	53.3 - 103		8/10/2019	03:55
Phenol-d5	**29.8**	10 - 108		8/10/2019	03:55
Terphenyl-d14	**74.3**	61.8 - 114		8/10/2019	03:55

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/6/2019
Data File: B39840.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 20:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 20:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 20:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 20:21
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 20:21
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 20:21
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 20:21
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 20:21
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 20:21
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 20:21
1,4-Dioxane	< 20.0	ug/L		8/14/2019 20:21
2-Butanone	< 10.0	ug/L		8/14/2019 20:21
2-Hexanone	< 5.00	ug/L		8/14/2019 20:21
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 20:21
Acetone	< 10.0	ug/L		8/14/2019 20:21
Benzene	**1.80**	ug/L		8/14/2019 20:21
Bromochloromethane	< 5.00	ug/L		8/14/2019 20:21
Bromodichloromethane	< 2.00	ug/L		8/14/2019 20:21
Bromoform	< 5.00	ug/L		8/14/2019 20:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	20:21
Carbon disulfide	< 2.00	ug/L	8/14/2019	20:21
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	20:21
Chlorobenzene	< 2.00	ug/L	8/14/2019	20:21
Chloroethane	< 2.00	ug/L	8/14/2019	20:21
Chloroform	< 2.00	ug/L	8/14/2019	20:21
Chloromethane	< 2.00	ug/L	8/14/2019	20:21
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	20:21
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	20:21
Cyclohexane	< 10.0	ug/L	8/14/2019	20:21
Dibromochloromethane	< 2.00	ug/L	8/14/2019	20:21
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	20:21
Ethylbenzene	< 2.00	ug/L	8/14/2019	20:21
Freon 113	< 2.00	ug/L	8/14/2019	20:21
Isopropylbenzene	**3.74**	ug/L	8/14/2019	20:21
m,p-Xylene	< 2.00	ug/L	8/14/2019	20:21
Methyl acetate	< 2.00	ug/L	8/14/2019	20:21
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	20:21
Methylcyclohexane	< 2.00	ug/L	8/14/2019	20:21
Methylene chloride	< 5.00	ug/L	8/14/2019	20:21
o-Xylene	< 2.00	ug/L	8/14/2019	20:21
Styrene	< 5.00	ug/L	8/14/2019	20:21
Tetrachloroethene	< 2.00	ug/L	8/14/2019	20:21
Toluene	< 2.00	ug/L	8/14/2019	20:21
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	20:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Dup
Lab Sample ID: 193715-09 **Date Sampled:** 8/2/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	20:21
Trichloroethene	< 2.00	ug/L	8/14/2019	20:21
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	20:21
Vinyl chloride	< 2.00	ug/L	8/14/2019	20:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	73.4 - 131		8/14/2019	20:21
4-Bromofluorobenzene	**105**	57.2 - 129		8/14/2019	20:21
Pentafluorobenzene	**93.2**	87 - 112		8/14/2019	20:21
Toluene-D8	**108**	78.3 - 115		8/14/2019	20:21

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63593.D

Report Prepared Friday, August 16, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T938
Lab Sample ID: 193715-10 **Date Sampled:** 7/31/2019
Matrix: Water **Date Received:** 8/5/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1,2-Trichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1-Dichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,1-Dichloroethene	< 2.00	ug/L		8/14/2019 15:53
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/14/2019 15:53
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/14/2019 15:53
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/14/2019 15:53
1,2-Dibromoethane	< 2.00	ug/L		8/14/2019 15:53
1,2-Dichlorobenzene	< 2.00	ug/L		8/14/2019 15:53
1,2-Dichloroethane	< 2.00	ug/L		8/14/2019 15:53
1,2-Dichloropropane	< 2.00	ug/L		8/14/2019 15:53
1,3-Dichlorobenzene	< 2.00	ug/L		8/14/2019 15:53
1,4-Dichlorobenzene	< 2.00	ug/L		8/14/2019 15:53
1,4-Dioxane	< 20.0	ug/L		8/14/2019 15:53
2-Butanone	< 10.0	ug/L		8/14/2019 15:53
2-Hexanone	< 5.00	ug/L		8/14/2019 15:53
4-Methyl-2-pentanone	< 5.00	ug/L		8/14/2019 15:53
Acetone	< 10.0	ug/L		8/14/2019 15:53
Benzene	< 1.00	ug/L		8/14/2019 15:53
Bromochloromethane	< 5.00	ug/L		8/14/2019 15:53
Bromodichloromethane	< 2.00	ug/L		8/14/2019 15:53
Bromoform	< 5.00	ug/L		8/14/2019 15:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T938
Lab Sample ID: 193715-10 **Date Sampled:** 7/31/2019
Matrix: Water **Date Received:** 8/5/2019

Bromomethane	< 2.00	ug/L	8/14/2019	15:53
Carbon disulfide	< 2.00	ug/L	8/14/2019	15:53
Carbon Tetrachloride	< 2.00	ug/L	8/14/2019	15:53
Chlorobenzene	< 2.00	ug/L	8/14/2019	15:53
Chloroethane	< 2.00	ug/L	8/14/2019	15:53
Chloroform	< 2.00	ug/L	8/14/2019	15:53
Chloromethane	< 2.00	ug/L	8/14/2019	15:53
cis-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	15:53
cis-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	15:53
Cyclohexane	< 10.0	ug/L	8/14/2019	15:53
Dibromochloromethane	< 2.00	ug/L	8/14/2019	15:53
Dichlorodifluoromethane	< 2.00	ug/L	8/14/2019	15:53
Ethylbenzene	< 2.00	ug/L	8/14/2019	15:53
Freon 113	< 2.00	ug/L	8/14/2019	15:53
Isopropylbenzene	< 2.00	ug/L	8/14/2019	15:53
m,p-Xylene	< 2.00	ug/L	8/14/2019	15:53
Methyl acetate	< 2.00	ug/L	8/14/2019	15:53
Methyl tert-butyl Ether	< 2.00	ug/L	8/14/2019	15:53
Methylcyclohexane	< 2.00	ug/L	8/14/2019	15:53
Methylene chloride	< 5.00	ug/L	8/14/2019	15:53
o-Xylene	< 2.00	ug/L	8/14/2019	15:53
Styrene	< 5.00	ug/L	8/14/2019	15:53
Tetrachloroethene	< 2.00	ug/L	8/14/2019	15:53
Toluene	< 2.00	ug/L	8/14/2019	15:53
trans-1,2-Dichloroethene	< 2.00	ug/L	8/14/2019	15:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 193715

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T938
Lab Sample ID: 193715-10 **Date Sampled:** 7/31/2019
Matrix: Water **Date Received:** 8/5/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	8/14/2019	15:53
Trichloroethene	< 2.00	ug/L	8/14/2019	15:53
Trichlorofluoromethane	< 2.00	ug/L	8/14/2019	15:53
Vinyl chloride	< 2.00	ug/L	8/14/2019	15:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	73.4 - 131		8/14/2019	15:53
4-Bromofluorobenzene	**96.1**	57.2 - 129		8/14/2019	15:53
Pentafluorobenzene	**92.1**	87 - 112		8/14/2019	15:53
Toluene-D8	**95.9**	78.3 - 115		8/14/2019	15:53

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x63581.D

Report Prepared Friday, August 16, 2019

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.

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 re-perform 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 th 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.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 3

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Same	193715
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP 14614	CITY: STATE: ZIP:		Email: alexandra.zobel@cityofrochester.gov
PHONE:	585-428-7094	PHONE:		
ATTN:	Alexandra Zobel Martino	ATTN:		

PROJECT REFERENCE
1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/1/2019	1505		X	~~MW-8~~ MW-9R	WA	3	X	X		01
	1345		X	MW-15R		3	X	X		02
	1140		X	MW-11		3	X	X		03
	1140		X	MW-11/MS		3	X	X		04
	1140		X	MW-11/MSD		3	X	X		05
	1625		X	MW-16		3	X	X		06 (04)
8/2/2019	1400		X	MW-7R		3	X	X		07 (05)
	1153		X	MW-4		3	X	X		08 (06)
	1545		X	MW-1		3	X	X		09 (07)
	1700		X	MW-3		3	X	X		10 (08)

per history GP 8/5/19

GP 8/5/19

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: A. Z. Martino — Date/Time: 08/01/2019 - 08/02/2019 — Total Cost:

Relinquished By: A. Z. Martino — Date/Time: 08/02/2019 1845

Received By: C. Stitely — Date/Time: 8/2/19 @ 1845 — 5.5 °C — P.I.F.

Received @ Lab By: [signature] — Date/Time: 8/5/19 10:22 — per CS GP 8/5/19

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Custody Seal N/A, samples delivered by client. GP 8/5/19

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	City of Rochester	CLIENT:	Same	193715
ADDRESS:	30 Church Street, Room 300B	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP 14614	CITY:	STATE: ZIP:	
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel Martino	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs									REMARKS	PARADIGM LAB SAMPLE NUMBER
8/2/2019	17[00]		X	Blind Dup		3	X	X										09
7/31/19	—		x	Trip Blank T938	WA	1	x											10
				per sample label GP 8/5/19														

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	X	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	X		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

A. Z. Martino — 08/01/2019-08/02/2019
Sampled By — Date/Time — Total Cost:

A. Z. Martino — 08/02/2019 1845
Relinquished By — Date/Time

Received By — Date/Time — P.I.F.

8/2/19 @ 1845
Received @ Lab By — Date/Time

8/5/19 10:22

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Chain of Custody Supplement

Client: City of Rochester **Completed by:** Glenn Pezzulo

Lab Project ID: 193715 **Date:** 8/5/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X VOA		X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	5.5°C 8/2/19 18:45		
Compliant Sample Quantity/Type	X		
Comments			

City of Rochester

Office of the Commissioner
Department of Environmental Services
City Hall Room 300B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov

Division of
Environmental Quality

December 16th, 2019

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, NY 14414-9516
Attn: Charlotte Theobald

Re: Quarterly Report
1200 East Main Street
Site No.: B00129

Dear Ms. Theobald,

The City of Rochester's Division of Environmental Quality conducted the third of the quarterly post-remediation groundwater monitoring at the 1200 East Main Street site (Site) on November 6th and November 7th of 2019. Groundwater samples were collected using low-flow sampling techniques in accordance with Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Table 1.0 – November, 2019 VOC Detections

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-9R	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5 *
Date	Nov-19	Nov-19	Nov-19	Nov-19	Nov-19	Nov-19	Nov-19	Nov-19	Nov-19	
TCL VOCs (ug/L)										
Acetone	ND (10.0)	ND (10.0)	ND (10.0)	NS	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	**50.0** **
Benzene	**4.28**	ND (1.00)	**6.85**	NS	**1.99**	ND (1.00)	**0.912**	**3.11**	ND (1.00)	**1.0**
Cyclohexane	**39.0**	ND (10.0)	ND (10.0)	NS	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	**NA**
Ethylbenzene	**14.0**	ND (2.00)	**3.15**	NS	ND (2.00)	ND (2.00)	**10.20**	**7.55**	ND (2.00)	**5.0**
Isopropylbenzene	**4.2**	ND (2.00)	**5.74**	NS	ND (2.00)	ND (2.00)	ND (2.00)	**1.33**	ND (2.00)	**5.0**
m,p-Xylene	**10.1**	ND (2.00)	**2.59**	NS	ND (2.00)	ND (2.00)	**6.27**	ND (2.00)	ND (2.00)	**5.0**
o-Xylene	**3.86**	ND (2.00)	ND (2.00)	NS	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**5.0**
MTBE	ND (2.00)	ND (2.00)	ND (2.00)	NS	**34.2**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**10.0**
Methylcyclohexane	**12.0**	ND (2.00)	**11.7**	NS	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**NA**
Toluene	ND (2.00)	ND (2.00)	**1.14**	NS	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**5.0**
Total VOCs	**87.44**	**0.00**	**18.33**	**0.00**	**36.19**	**0.00**	**17.38**	**11.99**	**0.00**	**NA**

Notes:
ND (X) denotes that the compound was analyzed but **not detected** at or above the quantitation limit (X)
* **Bold & underlined** font denotes a VOC detection exceeding NYSDEC Part 703.5 Groundwater standards.
** Denotes a VOC standard from NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1)

Table 1 summarizes detected compound concentrations at each of the sampled wells. Field data logs are included as Attachment 1. Laboratory analytical data is included as Attachment 2. The field QA/QC laboratory data is included on the enclosed CD as Attachment 3.

Tables 2.1 and 2.2 are included to illustrate the historic levels of Total VOCs and Benzene, respectively, from the time of the oxygen system operation, through the present. Three (3) rounds of groundwater sampling have been completed since the system was removed in March, 2019.

Table 2.1 – Historical VOC Totals

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16
Date	Total VOCs										
Nov-16	163.08	13.80	30.60	701.30	112.98	59.28	0.00	NS	16.90	2.00	0.98
Mar-17	305.10	0.00	43.45	122.50	32.40	0.00	0.00	0.00	26.70	222.30	2.30
Aug-17	246.60	0.00	29.81	32.27	21.16	0.00	0.00	NS	63.69	182.13	0.00
Nov-17	0.00	0.00	5.84	8.74	15.34	0.00	0.00	NS	28.54	164.00	0.00
Mar-18	364.54	0.00	6.28	135.91	199.30	0.00	0.00	0.00	56.97	144.66	0.00
Oxygen injection system shut off March, 2019											
May-19	173.18	0.00	8.64	8.20	65.53	2.68	0.00	NS	7.34	83.47	0.00
Aug-19	35.82	NS	29.54	3.09	48.70	NS	0.00	NS	20.85	21.98	0.00
Nov-19	87.44	0.00	18.33	0.00	36.19	NS	0.00	NS	17.38	11.99	0.00

Notes:
ND (X) denotes that the compound was analyzed but not detected at or above the quantitation limit (X)
NS denotes that the well was not sampled

Table 2.2 – Historical Benzene Levels

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5
Date	Benzene											
Nov-16	0.86	1.80	20.70	47.60	53.90	ND (1.0)	ND (1.0)	NS	2.80	ND (1.0)	ND (1.0)	1.0
Mar-17	13.00	ND (1.0)	2.10	7.00	0.72	ND (1.0)	ND (1.0)	ND (1.0)	2.10	4.80	ND (1.0)	1.0
Aug-17	7.03	ND (1.0)	5.65	1.76	1.12	ND (1.0)	ND (1.0)	NS	4.85	4.68	ND (1.0)	1.0
Nov-17	ND (1.0)	ND (1.0)	1.67	0.81	ND (1.0)	ND (1.0)	ND (1.0)	NS	2.30	4.70	ND (1.0)	1.0
Mar-18	5.04	ND (1.0)	0.99	7.87	1.83	ND (1.0)	ND (1.0)	ND (1.0)	0.60	4.72	ND (1.0)	1.0
Oxygen injection system shut off March, 2019												
May-19	7.27	ND (1.0)	2.45	0.68	2.72	1.12	ND (1.0)	NS	ND (1.0)	3.85	ND (1.0)	1.0
Aug-19	ND (1.0)	NS	2.03	3.09	ND (1.0)	NS	ND (1.0)	NS	1.41	1.73	ND (1.0)	1.0
Nov-19	4.28	ND (1.0)	6.85	NS	1.99	NS	ND (1.0)	NS	0.912	3.11	ND (1.0)	1.0

Notes:
ND (X) denotes that the compound was analyzed but **not detected** at or above the quantitation limit (X)
NS denotes that the well was not sampled
* **Bold & underlined** font denotes a Benzene detection exceeding NYSDEC Part 703.5 Groundwater standards.

The historical VOC totals and Benzene concentrations in each well have not fluctuated significantly since the oxygen injection system was shut off in March, 2019. These trends indicate that the remedy at the Site has been effective. Please note that MW-10 has been eliminated from the sampling program as the well is broken/non-operational. Please also note that parameters were not collected for MW-3 and MW-1 before sampling as there was not enough water available; samples

were not collected for MW-4 and MW-8 as there was no groundwater present at the time of sampling.

This was the third of four (4) quarterly post-remediation groundwater monitoring events. The next quarterly sampling event is expected to take place at the beginning of February, 2019. The City will follow up with electronic data deliverables (EDDs) that will be compatible with NYSDEC's requirements for EDDs.

Sincerely,
Division of Environmental Quality

Alexandra Zobel
Assistant Environmental Technician

Figure:

Figure 1: 1200 East Main Street: November, 2019 VOC Detections & Exceedances

Attachments:

Attachment 1: Q3 Groundwater Sampling Logs
Attachment 2: Q3 Laboratory Results
Attachment 3: Full Laboratory Package **(CD)**

G:\ENVQUAL\Alex\Projects\1200 E Main\Reports\Quarterly Reports\Q 3 Report\1200 East Main Q3 Report_12-4-2019.docx

Figure 1

City of Rochester, NY
Lovely A. Warren, Mayor

1200 East Main Street

November, 2019 VOC Detections & Exceedances

Attachments

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-1 **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 18.85

Measuring Point _____ **Other Infor** _____

Started purging @ 1355

Sampling Personnel _____

total GW volume evacuated ≈ 1.5 gal

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1400	6.88	14.0	1.115	1.75	62.8				- GW must colored at first
1405	6.90	14.1	1.154	1.52	46.1				
1410	6.93	13.8	1.228	1.33	51.8				
1415	6.93	13.8	1.277	1.23	42.2				
1420	6.94	13.7	1.310	1.14	40.5				
1425	6.95	13.6	1.331	1.08	36.1				
1430	6.95	13.7	1.353	1.03	43.8				
1435	6.95	13.5	1.360	1.03	31.4				

Type of Samples Collected

Sampled TCL VOCs + TCL SVOCs @ 1435

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-2 **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 22.4

Measuring Point _____ **Other Infor** _____

started pumping @ 1320

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
* due to low GW level in well & historically poor recharge the Jasper is unable to forego taking parameters + sample @ 1325									

Type of Samples Collected

TCL VOCs + TCL SVOCs taken @ 1325

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

20114#

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-3 **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 13.02

Measuring Point _____ **Other Infor** _____

started pumping @ 1455 1510

Sampling Personnel A. Zabel

total GW evacuated ≈ 3.25

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15^{10}	6.95	14.5	1.383	1.39	39.2				- faint petro odor at start of pumping
15^{15}	7.00	14.8	1.038	1.09	38.4				
15^{20}	7.00	15.0	1.046	1.02	66.7				
15^{25}	7.00	15.1	1.068	0.98	37.3				
15^{30}	6.99	15.0	1.088	0.97	37.7				
15^{35}	6.99	15.0	1.084	0.95	53.3				
15^{40}	7.00	15.0	1.076	0.94	68.8				
15^{45}	7.00	15.0	1.074	0.93	83.9				

Type of Samples Collected

Sampled TCL SVOCs + TCL VOCs @ 1545, BLIND DUPLICATE

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-4 **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 15.60

Measuring Point _____ **Other Infor** _____

Started pumping @ 11:17

Sampling Personnel A. Zakal

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
11:20	6.65	13.2	1.653	1.42	38.1				- water clear
11:25	6.63	13.3	1.637	1.25	18.4				
11:30	6.62	13.4	1.627	1.22	38.8				
11:35	6.61	13.2	1.617	1.16	47.1				
11:40	6.56	12.3	1.638	1.23	52.1				
11:45	6.51	10.6	1.651	1.32	38.9				
11:50	6.50	9.6	1.657	1.38	32.0				
11:55	6.49	8.6	1.662	1.53	22.7				- well recharging slowly, attempt at sampling made at 11:57 but no water available - will attempt again after recharge
	*attempt @ sampling @ 14:45 but no recharge								

Type of Samples Collected

_____

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-7R **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 16.45

Measuring Point _____ **Other Infor** _____

started pumping @ 1005

Sampling Personnel H. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
10^{07}	6.47	13.8	1.977	1.22	203.1				- Water V. turbid + gray-black in color
10^{10}	6.46	13.8	1.827	1.09	43.0				
10^{15}	6.47	13.9	1.798	1.06	53.0				
10^{20}	6.46	13.9	1.573	1.03	66.0				
10^{25}	6.50	13.9	1.540	1.01	66.4				
10^{30}	6.52	14.0	1.539	1.00	77.9				
10^{35}	6.54	13.9	1.536	0.98	78.0				
10^{40}	6.54	14.1	1.560	0.96	78.3				

Type of Samples Collected

TCL VOCs + TCL SVOCs collected @ 10^{42}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-8 **Date** 11/7/2019

Well Depth 22.0 **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 21.0

Measuring Point _____ **Other Infor** _____

started pumping @ 13^{00}; well pumped dry - no samples taken

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
* reattempted to sample @ 13^{15}; no GW present - no samples taken									

Type of Samples Collected Ø

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-9R **Date** 11/6/2019

Well Depth YSI Pro **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 11.88

Measuring Point _____ **Other Infor** _____

started pumping @ 13:00

Sampling Personnel A. Zakul

total Volume evacuated ≈ 2.25 gal

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
13:01	6.87	14.5	2.536	3.90	14.8				
13:05	6.85	14.5	2.543	3.33	11.1				
13:10	6.87	14.6	2.523	3.52	7.7				
13:15	6.91	14.7	2.397	4.11	8.7				
13:20	6.92	14.8	2.315	4.29	11.1				
13:25	6.94	14.8	2.241	4.49	14.5				
13:30	6.97	14.9	2.120	5.46	19.5				
13:35	6.98	14.9	2.095	5.78	20.5				

Type of Samples Collected

sampled TCL VOCs + TCL SVOCs @ 13:45

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** ← **Well No.** MW-11 **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 18.23

Measuring Point _____ **Other Infor** _____

started pumping @ 11^05

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
11^{10}	6.75	12.9	1.280	1.12	77.7				- first .25-.50 gal of water is gray black w/ petro odor
11^{15}	6.76	13.2	1.281	1.05	90.2				
11^{20}	6.78	13.1	1.279	1.02	82.8				
11^{25}	6.79	13.5	1.284	1.00	106.3				
11^{30}	6.79	13.1	1.293	0.99	99.1				
11^{35}	6.80	13.1	1.299	0.98	148.1				

Type of Samples Collected

Sampled TCL VOCs & TCL SVOCs @ 11^{40}

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-15R **Date** 11/6/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device _____ **Tubing type** _____ **Water Level** 15.23

Measuring Point _____ **Other Infor** _____

Started pumping @ 12:10

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
12"	6.87	14.4	1.697	4.32	23.0				
12:15	6.72	14.5	1.735	3.92	48.0				
12:20	6.74	14.4	1.813	3.23	55.6				
12:25	6.75	14.4	1.849	2.88	58.5				
12:30	6.76	14.4	1.891	2.43	56.7				

Type of Samples Collected

Sampled TCL VOCs + TCL SVOCs @ 12:32

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-16 **Date** 11/7/2019

Well Depth _____ **Screen Length** _____ **Well Diameter** _____ **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.55

Measuring Point _____ **Other Infor** _____

started pumping @ 1345

Sampling Personnel JA Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1350	6.81	14.3	1.285	1.87	279.3				- water is clear
1355	6.78	14.2	1.290	1.81	240.0				
1400	6.78	14.0	1.303	1.70	257.1				
1405	6.79	13.9	1.311	1.48	256.0				
1410	6.78	14.0	1.311	1.42	256.2				
1415	6.78	14.0	1.306	1.32	255.0				

Type of Samples Collected

TCL VOCs + TCL SVOCs @ 1415

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		11/8/2019 15:02
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,2,4-Trichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,2-Dichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,3-Dichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
1,4-Dichlorobenzene	< 10.2	ug/L		11/8/2019 15:02
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		11/8/2019 15:02
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		11/8/2019 15:02
2,4,5-Trichlorophenol	< 20.3	ug/L		11/8/2019 15:02
2,4,6-Trichlorophenol	< 10.2	ug/L		11/8/2019 15:02
2,4-Dichlorophenol	< 10.2	ug/L		11/8/2019 15:02
2,4-Dimethylphenol	< 20.3	ug/L		11/8/2019 15:02
2,4-Dinitrophenol	< 20.3	ug/L		11/8/2019 15:02
2,4-Dinitrotoluene	< 10.2	ug/L		11/8/2019 15:02
2,6-Dinitrotoluene	< 10.2	ug/L		11/8/2019 15:02
2-Chloronaphthalene	< 10.2	ug/L		11/8/2019 15:02
2-Chlorophenol	< 10.2	ug/L		11/8/2019 15:02
2-Methylnapthalene	< 10.2	ug/L		11/8/2019 15:02
2-Methylphenol	< 10.2	ug/L		11/8/2019 15:02
2-Nitroaniline	< 20.3	ug/L		11/8/2019 15:02
2-Nitrophenol	< 10.2	ug/L		11/8/2019 15:02
3&4-Methylphenol	< 10.2	ug/L		11/8/2019 15:02
3,3'-Dichlorobenzidine	< 10.2	ug/L		11/8/2019 15:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.3	ug/L	11/8/2019	15:02
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	11/8/2019	15:02
4-Bromophenyl phenyl ether	< 10.2	ug/L	11/8/2019	15:02
4-Chloro-3-methylphenol	< 10.2	ug/L	11/8/2019	15:02
4-Chloroaniline	< 10.2	ug/L	11/8/2019	15:02
4-Chlorophenyl phenyl ether	< 10.2	ug/L	11/8/2019	15:02
4-Nitroaniline	< 20.3	ug/L	11/8/2019	15:02
4-Nitrophenol	< 20.3	ug/L	11/8/2019	15:02
Acenaphthene	< 10.2	ug/L	11/8/2019	15:02
Acenaphthylene	< 10.2	ug/L	11/8/2019	15:02
Acetophenone	< 10.2	ug/L	11/8/2019	15:02
Anthracene	< 10.2	ug/L	11/8/2019	15:02
Atrazine	< 10.2	ug/L	11/8/2019	15:02
Benzaldehyde	< 10.2	ug/L	11/8/2019	15:02
Benzo (a) anthracene	< 10.2	ug/L	11/8/2019	15:02
Benzo (a) pyrene	< 10.2	ug/L	11/8/2019	15:02
Benzo (b) fluoranthene	< 10.2	ug/L	11/8/2019	15:02
Benzo (g,h,i) perylene	< 10.2	ug/L	11/8/2019	15:02
Benzo (k) fluoranthene	< 10.2	ug/L	11/8/2019	15:02
Bis (2-chloroethoxy) methane	< 10.2	ug/L	11/8/2019	15:02
Bis (2-chloroethyl) ether	< 10.2	ug/L	11/8/2019	15:02
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	11/8/2019	15:02
Butylbenzylphthalate	< 10.2	ug/L	11/8/2019	15:02
Caprolactam	< 10.2	ug/L	11/8/2019	15:02
Carbazole	< 10.2	ug/L	11/8/2019	15:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.2	ug/L	11/8/2019	15:02
Dibenz (a,h) anthracene	< 10.2	ug/L	11/8/2019	15:02
Dibenzofuran	< 10.2	ug/L	11/8/2019	15:02
Diethyl phthalate	< 10.2	ug/L	11/8/2019	15:02
Dimethyl phthalate	< 20.3	ug/L	11/8/2019	15:02
Di-n-butyl phthalate	< 10.2	ug/L	11/8/2019	15:02
Di-n-octylphthalate	< 10.2	ug/L	11/8/2019	15:02
Fluoranthene	< 10.2	ug/L	11/8/2019	15:02
Fluorene	< 10.2	ug/L	11/8/2019	15:02
Hexachlorobenzene	< 10.2	ug/L	11/8/2019	15:02
Hexachlorobutadiene	< 10.2	ug/L	11/8/2019	15:02
Hexachlorocyclopentadiene	< 10.2	ug/L	11/8/2019	15:02
Hexachloroethane	< 10.2	ug/L	11/8/2019	15:02
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	11/8/2019	15:02
Isophorone	< 10.2	ug/L	11/8/2019	15:02
Naphthalene	< 10.2	ug/L	11/8/2019	15:02
Nitrobenzene	< 10.2	ug/L	11/8/2019	15:02
N-Nitroso-di-n-propylamine	< 10.2	ug/L	11/8/2019	15:02
N-Nitrosodiphenylamine	< 10.2	ug/L	11/8/2019	15:02
Pentachlorophenol	< 20.3	ug/L	11/8/2019	15:02
Phenanthrene	< 10.2	ug/L	11/8/2019	15:02
Phenol	< 10.2	ug/L	11/8/2019	15:02
Pyrene	< 10.2	ug/L	11/8/2019	15:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.8**	56 - 117		11/8/2019	15:02
2-Fluorobiphenyl	**74.2**	36.3 - 95.4		11/8/2019	15:02
2-Fluorophenol	**43.2**	16.1 - 103		11/8/2019	15:02
Nitrobenzene-d5	**82.2**	52.1 - 98.9		11/8/2019	15:02
Phenol-d5	**28.6**	10 - 105		11/8/2019	15:02
Terphenyl-d14	**89.7**	59.6 - 112		11/8/2019	15:02

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42162.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 14:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 14:14
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 14:14
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:14
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 14:14
1,2-Dichloropropane	< 2.00	ug/L	M	11/15/2019 14:14
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:14
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:14
1,4-Dioxane	< 20.0	ug/L		11/15/2019 14:14
2-Butanone	< 10.0	ug/L		11/15/2019 14:14
2-Hexanone	< 5.00	ug/L		11/15/2019 14:14
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 14:14
Acetone	< 10.0	ug/L		11/15/2019 14:14
Benzene	**0.912**	ug/L	J	11/15/2019 14:14
Bromochloromethane	< 5.00	ug/L		11/15/2019 14:14
Bromodichloromethane	< 2.00	ug/L		11/15/2019 14:14
Bromoform	< 5.00	ug/L		11/15/2019 14:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	14:14
Carbon disulfide	< 2.00	ug/L		11/15/2019	14:14
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	14:14
Chlorobenzene	< 2.00	ug/L		11/15/2019	14:14
Chloroethane	< 2.00	ug/L		11/15/2019	14:14
Chloroform	< 2.00	ug/L		11/15/2019	14:14
Chloromethane	< 2.00	ug/L		11/15/2019	14:14
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:14
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	14:14
Cyclohexane	< 10.0	ug/L		11/15/2019	14:14
Dibromochloromethane	< 2.00	ug/L	M	11/15/2019	14:14
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	14:14
Ethylbenzene	**10.2**	ug/L		11/15/2019	14:14
Freon 113	< 2.00	ug/L		11/15/2019	14:14
Isopropylbenzene	< 2.00	ug/L		11/15/2019	14:14
m,p-Xylene	**6.27**	ug/L		11/15/2019	14:14
Methyl acetate	< 2.00	ug/L		11/15/2019	14:14
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	14:14
Methylcyclohexane	< 2.00	ug/L		11/15/2019	14:14
Methylene chloride	< 5.00	ug/L		11/15/2019	14:14
o-Xylene	< 2.00	ug/L		11/15/2019	14:14
Styrene	< 5.00	ug/L		11/15/2019	14:14
Tetrachloroethene	< 2.00	ug/L		11/15/2019	14:14
Toluene	< 2.00	ug/L		11/15/2019	14:14
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-11
Lab Sample ID: 195546-01 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:14
Trichloroethene	< 2.00	ug/L	11/15/2019	14:14
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	14:14
Vinyl chloride	< 2.00	ug/L	11/15/2019	14:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	70.5 - 135		11/15/2019	14:14
4-Bromofluorobenzene	**103**	62 - 127		11/15/2019	14:14
Pentafluorobenzene	**93.9**	87 - 113		11/15/2019	14:14
Toluene-D8	**90.7**	80.8 - 115		11/15/2019	14:14

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66314.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		11/8/2019 16:30
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,2,4-Trichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,2-Dichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,3-Dichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
1,4-Dichlorobenzene	< 10.1	ug/L		11/8/2019 16:30
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		11/8/2019 16:30
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		11/8/2019 16:30
2,4,5-Trichlorophenol	< 20.1	ug/L		11/8/2019 16:30
2,4,6-Trichlorophenol	< 10.1	ug/L		11/8/2019 16:30
2,4-Dichlorophenol	< 10.1	ug/L		11/8/2019 16:30
2,4-Dimethylphenol	< 20.1	ug/L		11/8/2019 16:30
2,4-Dinitrophenol	< 20.1	ug/L		11/8/2019 16:30
2,4-Dinitrotoluene	< 10.1	ug/L		11/8/2019 16:30
2,6-Dinitrotoluene	< 10.1	ug/L		11/8/2019 16:30
2-Chloronaphthalene	< 10.1	ug/L		11/8/2019 16:30
2-Chlorophenol	< 10.1	ug/L		11/8/2019 16:30
2-Methylnapthalene	< 10.1	ug/L		11/8/2019 16:30
2-Methylphenol	< 10.1	ug/L		11/8/2019 16:30
2-Nitroaniline	< 20.1	ug/L		11/8/2019 16:30
2-Nitrophenol	< 10.1	ug/L		11/8/2019 16:30
3&4-Methylphenol	< 10.1	ug/L		11/8/2019 16:30
3,3'-Dichlorobenzidine	< 10.1	ug/L		11/8/2019 16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.1	ug/L	11/8/2019	16:30
4,6-Dinitro-2-methylphenol	< 20.1	ug/L	11/8/2019	16:30
4-Bromophenyl phenyl ether	< 10.1	ug/L	11/8/2019	16:30
4-Chloro-3-methylphenol	< 10.1	ug/L	11/8/2019	16:30
4-Chloroaniline	< 10.1	ug/L	11/8/2019	16:30
4-Chlorophenyl phenyl ether	< 10.1	ug/L	11/8/2019	16:30
4-Nitroaniline	< 20.1	ug/L	11/8/2019	16:30
4-Nitrophenol	< 20.1	ug/L	11/8/2019	16:30
Acenaphthene	< 10.1	ug/L	11/8/2019	16:30
Acenaphthylene	< 10.1	ug/L	11/8/2019	16:30
Acetophenone	< 10.1	ug/L	11/8/2019	16:30
Anthracene	< 10.1	ug/L	11/8/2019	16:30
Atrazine	< 10.1	ug/L	11/8/2019	16:30
Benzaldehyde	< 10.1	ug/L	11/8/2019	16:30
Benzo (a) anthracene	< 10.1	ug/L	11/8/2019	16:30
Benzo (a) pyrene	< 10.1	ug/L	11/8/2019	16:30
Benzo (b) fluoranthene	< 10.1	ug/L	11/8/2019	16:30
Benzo (g,h,i) perylene	< 10.1	ug/L	11/8/2019	16:30
Benzo (k) fluoranthene	< 10.1	ug/L	11/8/2019	16:30
Bis (2-chloroethoxy) methane	< 10.1	ug/L	11/8/2019	16:30
Bis (2-chloroethyl) ether	< 10.1	ug/L	11/8/2019	16:30
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	11/8/2019	16:30
Butylbenzylphthalate	< 10.1	ug/L	11/8/2019	16:30
Caprolactam	< 10.1	ug/L	11/8/2019	16:30
Carbazole	< 10.1	ug/L	11/8/2019	16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.1	ug/L	11/8/2019	16:30
Dibenz (a,h) anthracene	< 10.1	ug/L	11/8/2019	16:30
Dibenzofuran	< 10.1	ug/L	11/8/2019	16:30
Diethyl phthalate	< 10.1	ug/L	11/8/2019	16:30
Dimethyl phthalate	< 20.1	ug/L	11/8/2019	16:30
Di-n-butyl phthalate	< 10.1	ug/L	11/8/2019	16:30
Di-n-octylphthalate	< 10.1	ug/L	11/8/2019	16:30
Fluoranthene	< 10.1	ug/L	11/8/2019	16:30
Fluorene	< 10.1	ug/L	11/8/2019	16:30
Hexachlorobenzene	< 10.1	ug/L	11/8/2019	16:30
Hexachlorobutadiene	< 10.1	ug/L	11/8/2019	16:30
Hexachlorocyclopentadiene	< 10.1	ug/L	11/8/2019	16:30
Hexachloroethane	< 10.1	ug/L	11/8/2019	16:30
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	11/8/2019	16:30
Isophorone	< 10.1	ug/L	11/8/2019	16:30
Naphthalene	< 10.1	ug/L	11/8/2019	16:30
Nitrobenzene	< 10.1	ug/L	11/8/2019	16:30
N-Nitroso-di-n-propylamine	< 10.1	ug/L	11/8/2019	16:30
N-Nitrosodiphenylamine	< 10.1	ug/L	11/8/2019	16:30
Pentachlorophenol	< 20.1	ug/L	11/8/2019	16:30
Phenanthrene	< 10.1	ug/L	11/8/2019	16:30
Phenol	< 10.1	ug/L	11/8/2019	16:30
Pyrene	< 10.1	ug/L	11/8/2019	16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**97.9**	56 - 117		11/8/2019	16:30
2-Fluorobiphenyl	**77.4**	36.3 - 95.4		11/8/2019	16:30
2-Fluorophenol	**44.7**	16.1 - 103		11/8/2019	16:30
Nitrobenzene-d5	**86.0**	52.1 - 98.9		11/8/2019	16:30
Phenol-d5	**29.2**	10 - 105		11/8/2019	16:30
Terphenyl-d14	**98.5**	59.6 - 112		11/8/2019	16:30

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42165.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 14:36
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:36
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 14:36
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 14:36
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:36
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 14:36
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 14:36
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:36
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:36
1,4-Dioxane	< 20.0	ug/L		11/15/2019 14:36
2-Butanone	< 10.0	ug/L		11/15/2019 14:36
2-Hexanone	< 5.00	ug/L		11/15/2019 14:36
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 14:36
Acetone	< 10.0	ug/L		11/15/2019 14:36
Benzene	**3.11**	ug/L		11/15/2019 14:36
Bromochloromethane	< 5.00	ug/L		11/15/2019 14:36
Bromodichloromethane	< 2.00	ug/L		11/15/2019 14:36
Bromoform	< 5.00	ug/L		11/15/2019 14:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	14:36
Carbon disulfide	< 2.00	ug/L		11/15/2019	14:36
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	14:36
Chlorobenzene	< 2.00	ug/L		11/15/2019	14:36
Chloroethane	< 2.00	ug/L		11/15/2019	14:36
Chloroform	< 2.00	ug/L		11/15/2019	14:36
Chloromethane	< 2.00	ug/L		11/15/2019	14:36
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:36
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	14:36
Cyclohexane	< 10.0	ug/L		11/15/2019	14:36
Dibromochloromethane	< 2.00	ug/L		11/15/2019	14:36
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	14:36
Ethylbenzene	**7.55**	ug/L		11/15/2019	14:36
Freon 113	< 2.00	ug/L		11/15/2019	14:36
Isopropylbenzene	**1.33**	ug/L	J	11/15/2019	14:36
m,p-Xylene	< 2.00	ug/L		11/15/2019	14:36
Methyl acetate	< 2.00	ug/L		11/15/2019	14:36
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	14:36
Methylcyclohexane	< 2.00	ug/L		11/15/2019	14:36
Methylene chloride	< 5.00	ug/L		11/15/2019	14:36
o-Xylene	< 2.00	ug/L		11/15/2019	14:36
Styrene	< 5.00	ug/L		11/15/2019	14:36
Tetrachloroethene	< 2.00	ug/L		11/15/2019	14:36
Toluene	< 2.00	ug/L		11/15/2019	14:36
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	14:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-15R
Lab Sample ID: 195546-02 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:36
Trichloroethene	< 2.00	ug/L	11/15/2019	14:36
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	14:36
Vinyl chloride	< 2.00	ug/L	11/15/2019	14:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**112**	70.5 - 135		11/15/2019	14:36
4-Bromofluorobenzene	**97.0**	62 - 127		11/15/2019	14:36
Pentafluorobenzene	**88.0**	87 - 113		11/15/2019	14:36
Toluene-D8	**97.3**	80.8 - 115		11/15/2019	14:36

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66315.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		11/8/2019 16:59
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,2,4-Trichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,2-Dichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,3-Dichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
1,4-Dichlorobenzene	< 10.2	ug/L		11/8/2019 16:59
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		11/8/2019 16:59
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		11/8/2019 16:59
2,4,5-Trichlorophenol	< 20.3	ug/L		11/8/2019 16:59
2,4,6-Trichlorophenol	< 10.2	ug/L		11/8/2019 16:59
2,4-Dichlorophenol	< 10.2	ug/L		11/8/2019 16:59
2,4-Dimethylphenol	< 20.3	ug/L		11/8/2019 16:59
2,4-Dinitrophenol	< 20.3	ug/L		11/8/2019 16:59
2,4-Dinitrotoluene	< 10.2	ug/L		11/8/2019 16:59
2,6-Dinitrotoluene	< 10.2	ug/L		11/8/2019 16:59
2-Chloronaphthalene	< 10.2	ug/L		11/8/2019 16:59
2-Chlorophenol	< 10.2	ug/L		11/8/2019 16:59
2-Methylnapthalene	< 10.2	ug/L		11/8/2019 16:59
2-Methylphenol	< 10.2	ug/L		11/8/2019 16:59
2-Nitroaniline	< 20.3	ug/L		11/8/2019 16:59
2-Nitrophenol	< 10.2	ug/L		11/8/2019 16:59
3&4-Methylphenol	< 10.2	ug/L		11/8/2019 16:59
3,3'-Dichlorobenzidine	< 10.2	ug/L		11/8/2019 16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.3	ug/L	11/8/2019	16:59
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	11/8/2019	16:59
4-Bromophenyl phenyl ether	< 10.2	ug/L	11/8/2019	16:59
4-Chloro-3-methylphenol	< 10.2	ug/L	11/8/2019	16:59
4-Chloroaniline	< 10.2	ug/L	11/8/2019	16:59
4-Chlorophenyl phenyl ether	< 10.2	ug/L	11/8/2019	16:59
4-Nitroaniline	< 20.3	ug/L	11/8/2019	16:59
4-Nitrophenol	< 20.3	ug/L	11/8/2019	16:59
Acenaphthene	< 10.2	ug/L	11/8/2019	16:59
Acenaphthylene	< 10.2	ug/L	11/8/2019	16:59
Acetophenone	< 10.2	ug/L	11/8/2019	16:59
Anthracene	< 10.2	ug/L	11/8/2019	16:59
Atrazine	< 10.2	ug/L	11/8/2019	16:59
Benzaldehyde	< 10.2	ug/L	11/8/2019	16:59
Benzo (a) anthracene	< 10.2	ug/L	11/8/2019	16:59
Benzo (a) pyrene	< 10.2	ug/L	11/8/2019	16:59
Benzo (b) fluoranthene	< 10.2	ug/L	11/8/2019	16:59
Benzo (g,h,i) perylene	< 10.2	ug/L	11/8/2019	16:59
Benzo (k) fluoranthene	< 10.2	ug/L	11/8/2019	16:59
Bis (2-chloroethoxy) methane	< 10.2	ug/L	11/8/2019	16:59
Bis (2-chloroethyl) ether	< 10.2	ug/L	11/8/2019	16:59
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	11/8/2019	16:59
Butylbenzylphthalate	< 10.2	ug/L	11/8/2019	16:59
Caprolactam	< 10.2	ug/L	11/8/2019	16:59
Carbazole	< 10.2	ug/L	11/8/2019	16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.2	ug/L	11/8/2019	16:59
Dibenz (a,h) anthracene	< 10.2	ug/L	11/8/2019	16:59
Dibenzofuran	< 10.2	ug/L	11/8/2019	16:59
Diethyl phthalate	< 10.2	ug/L	11/8/2019	16:59
Dimethyl phthalate	< 20.3	ug/L	11/8/2019	16:59
Di-n-butyl phthalate	< 10.2	ug/L	11/8/2019	16:59
Di-n-octylphthalate	< 10.2	ug/L	11/8/2019	16:59
Fluoranthene	< 10.2	ug/L	11/8/2019	16:59
Fluorene	< 10.2	ug/L	11/8/2019	16:59
Hexachlorobenzene	< 10.2	ug/L	11/8/2019	16:59
Hexachlorobutadiene	< 10.2	ug/L	11/8/2019	16:59
Hexachlorocyclopentadiene	< 10.2	ug/L	11/8/2019	16:59
Hexachloroethane	< 10.2	ug/L	11/8/2019	16:59
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	11/8/2019	16:59
Isophorone	< 10.2	ug/L	11/8/2019	16:59
Naphthalene	< 10.2	ug/L	11/8/2019	16:59
Nitrobenzene	< 10.2	ug/L	11/8/2019	16:59
N-Nitroso-di-n-propylamine	< 10.2	ug/L	11/8/2019	16:59
N-Nitrosodiphenylamine	< 10.2	ug/L	11/8/2019	16:59
Pentachlorophenol	< 20.3	ug/L	11/8/2019	16:59
Phenanthrene	< 10.2	ug/L	11/8/2019	16:59
Phenol	< 10.2	ug/L	11/8/2019	16:59
Pyrene	< 10.2	ug/L	11/8/2019	16:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**84.3**	56 - 117		11/8/2019	16:59
2-Fluorobiphenyl	**61.8**	36.3 - 95.4		11/8/2019	16:59
2-Fluorophenol	**42.6**	16.1 - 103		11/8/2019	16:59
Nitrobenzene-d5	**79.2**	52.1 - 98.9		11/8/2019	16:59
Phenol-d5	**29.1**	10 - 105		11/8/2019	16:59
Terphenyl-d14	**86.4**	59.6 - 112		11/8/2019	16:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42166.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 14:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 14:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 14:59
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 14:59
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:59
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 14:59
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 14:59
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:59
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 14:59
1,4-Dioxane	< 20.0	ug/L		11/15/2019 14:59
2-Butanone	< 10.0	ug/L		11/15/2019 14:59
2-Hexanone	< 5.00	ug/L		11/15/2019 14:59
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 14:59
Acetone	< 10.0	ug/L		11/15/2019 14:59
Benzene	< 1.00	ug/L		11/15/2019 14:59
Bromochloromethane	< 5.00	ug/L		11/15/2019 14:59
Bromodichloromethane	< 2.00	ug/L		11/15/2019 14:59
Bromoform	< 5.00	ug/L		11/15/2019 14:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	14:59
Carbon disulfide	< 2.00	ug/L	11/15/2019	14:59
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	14:59
Chlorobenzene	< 2.00	ug/L	11/15/2019	14:59
Chloroethane	< 2.00	ug/L	11/15/2019	14:59
Chloroform	< 2.00	ug/L	11/15/2019	14:59
Chloromethane	< 2.00	ug/L	11/15/2019	14:59
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	14:59
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:59
Cyclohexane	< 10.0	ug/L	11/15/2019	14:59
Dibromochloromethane	< 2.00	ug/L	11/15/2019	14:59
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	14:59
Ethylbenzene	< 2.00	ug/L	11/15/2019	14:59
Freon 113	< 2.00	ug/L	11/15/2019	14:59
Isopropylbenzene	< 2.00	ug/L	11/15/2019	14:59
m,p-Xylene	< 2.00	ug/L	11/15/2019	14:59
Methyl acetate	< 2.00	ug/L	11/15/2019	14:59
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	14:59
Methylcyclohexane	< 2.00	ug/L	11/15/2019	14:59
Methylene chloride	< 5.00	ug/L	11/15/2019	14:59
o-Xylene	< 2.00	ug/L	11/15/2019	14:59
Styrene	< 5.00	ug/L	11/15/2019	14:59
Tetrachloroethene	< 2.00	ug/L	11/15/2019	14:59
Toluene	< 2.00	ug/L	11/15/2019	14:59
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	14:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-9R
Lab Sample ID: 195546-03 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	14:59
Trichloroethene	< 2.00	ug/L	11/15/2019	14:59
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	14:59
Vinyl chloride	< 2.00	ug/L	11/15/2019	14:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**115**	70.5 - 135		11/15/2019	14:59
4-Bromofluorobenzene	**87.9**	62 - 127		11/15/2019	14:59
Pentafluorobenzene	**101**	87 - 113		11/15/2019	14:59
Toluene-D8	**93.4**	80.8 - 115		11/15/2019	14:59

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66316.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 17:28
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:28
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 17:28
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 17:28
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 17:28
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 17:28
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 17:28
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 17:28
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 17:28
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:28
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:28
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 17:28
2-Chlorophenol	< 10.0	ug/L		11/8/2019 17:28
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 17:28
2-Methylphenol	< 10.0	ug/L		11/8/2019 17:28
2-Nitroaniline	< 20.0	ug/L		11/8/2019 17:28
2-Nitrophenol	< 10.0	ug/L		11/8/2019 17:28
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 17:28
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 17:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	17:28
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	17:28
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:28
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	17:28
4-Chloroaniline	< 10.0	ug/L	11/8/2019	17:28
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:28
4-Nitroaniline	< 20.0	ug/L	11/8/2019	17:28
4-Nitrophenol	< 20.0	ug/L	11/8/2019	17:28
Acenaphthene	< 10.0	ug/L	11/8/2019	17:28
Acenaphthylene	< 10.0	ug/L	11/8/2019	17:28
Acetophenone	< 10.0	ug/L	11/8/2019	17:28
Anthracene	< 10.0	ug/L	11/8/2019	17:28
Atrazine	< 10.0	ug/L	11/8/2019	17:28
Benzaldehyde	< 10.0	ug/L	11/8/2019	17:28
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	17:28
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	17:28
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	17:28
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	17:28
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	17:28
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	17:28
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	17:28
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	17:28
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	17:28
Caprolactam	< 10.0	ug/L	11/8/2019	17:28
Carbazole	< 10.0	ug/L	11/8/2019	17:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	17:28
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	17:28
Dibenzofuran	< 10.0	ug/L	11/8/2019	17:28
Diethyl phthalate	< 10.0	ug/L	11/8/2019	17:28
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	17:28
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	17:28
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	17:28
Fluoranthene	< 10.0	ug/L	11/8/2019	17:28
Fluorene	< 10.0	ug/L	11/8/2019	17:28
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	17:28
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	17:28
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	17:28
Hexachloroethane	< 10.0	ug/L	11/8/2019	17:28
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	17:28
Isophorone	< 10.0	ug/L	11/8/2019	17:28
Naphthalene	< 10.0	ug/L	11/8/2019	17:28
Nitrobenzene	< 10.0	ug/L	11/8/2019	17:28
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	17:28
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	17:28
Pentachlorophenol	< 20.0	ug/L	11/8/2019	17:28
Phenanthrene	< 10.0	ug/L	11/8/2019	17:28
Phenol	< 10.0	ug/L	11/8/2019	17:28
Pyrene	< 10.0	ug/L	11/8/2019	17:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.0**	56 - 117		11/8/2019	17:28
2-Fluorobiphenyl	**57.0**	36.3 - 95.4		11/8/2019	17:28
2-Fluorophenol	**40.7**	16.1 - 103		11/8/2019	17:28
Nitrobenzene-d5	**70.6**	52.1 - 98.9		11/8/2019	17:28
Phenol-d5	**26.9**	10 - 105		11/8/2019	17:28
Terphenyl-d14	**85.9**	59.6 - 112		11/8/2019	17:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42167.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 15:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 15:21
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 15:21
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:21
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 15:21
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 15:21
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:21
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:21
1,4-Dioxane	< 20.0	ug/L		11/15/2019 15:21
2-Butanone	< 10.0	ug/L		11/15/2019 15:21
2-Hexanone	< 5.00	ug/L		11/15/2019 15:21
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 15:21
Acetone	< 10.0	ug/L		11/15/2019 15:21
Benzene	**4.28**	ug/L		11/15/2019 15:21
Bromochloromethane	< 5.00	ug/L		11/15/2019 15:21
Bromodichloromethane	< 2.00	ug/L		11/15/2019 15:21
Bromoform	< 5.00	ug/L		11/15/2019 15:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	15:21
Carbon disulfide	< 2.00	ug/L	11/15/2019	15:21
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	15:21
Chlorobenzene	< 2.00	ug/L	11/15/2019	15:21
Chloroethane	< 2.00	ug/L	11/15/2019	15:21
Chloroform	< 2.00	ug/L	11/15/2019	15:21
Chloromethane	< 2.00	ug/L	11/15/2019	15:21
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	15:21
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	15:21
Cyclohexane	**39.0**	ug/L	11/15/2019	15:21
Dibromochloromethane	< 2.00	ug/L	11/15/2019	15:21
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	15:21
Ethylbenzene	**14.0**	ug/L	11/15/2019	15:21
Freon 113	< 2.00	ug/L	11/15/2019	15:21
Isopropylbenzene	**4.20**	ug/L	11/15/2019	15:21
m,p-Xylene	**10.1**	ug/L	11/15/2019	15:21
Methyl acetate	< 2.00	ug/L	11/15/2019	15:21
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	15:21
Methylcyclohexane	**12.0**	ug/L	11/15/2019	15:21
Methylene chloride	< 5.00	ug/L	11/15/2019	15:21
o-Xylene	**3.86**	ug/L	11/15/2019	15:21
Styrene	< 5.00	ug/L	11/15/2019	15:21
Tetrachloroethene	< 2.00	ug/L	11/15/2019	15:21
Toluene	< 2.00	ug/L	11/15/2019	15:21
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	15:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-1
Lab Sample ID: 195546-04 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	15:21
Trichloroethene	< 2.00	ug/L	11/15/2019	15:21
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	15:21
Vinyl chloride	< 2.00	ug/L	11/15/2019	15:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	70.5 - 135		11/15/2019	15:21
4-Bromofluorobenzene	**101**	62 - 127		11/15/2019	15:21
Pentafluorobenzene	**94.4**	87 - 113		11/15/2019	15:21
Toluene-D8	**104**	80.8 - 115		11/15/2019	15:21

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66317.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 17:58
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 17:58
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 17:58
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 17:58
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 17:58
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 17:58
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 17:58
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 17:58
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 17:58
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:58
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 17:58
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 17:58
2-Chlorophenol	< 10.0	ug/L		11/8/2019 17:58
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 17:58
2-Methylphenol	< 10.0	ug/L		11/8/2019 17:58
2-Nitroaniline	< 20.0	ug/L		11/8/2019 17:58
2-Nitrophenol	< 10.0	ug/L		11/8/2019 17:58
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 17:58
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	17:58
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	17:58
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:58
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	17:58
4-Chloroaniline	< 10.0	ug/L	11/8/2019	17:58
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	17:58
4-Nitroaniline	< 20.0	ug/L	11/8/2019	17:58
4-Nitrophenol	< 20.0	ug/L	11/8/2019	17:58
Acenaphthene	< 10.0	ug/L	11/8/2019	17:58
Acenaphthylene	< 10.0	ug/L	11/8/2019	17:58
Acetophenone	< 10.0	ug/L	11/8/2019	17:58
Anthracene	< 10.0	ug/L	11/8/2019	17:58
Atrazine	< 10.0	ug/L	11/8/2019	17:58
Benzaldehyde	< 10.0	ug/L	11/8/2019	17:58
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	17:58
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	17:58
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	17:58
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	17:58
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	17:58
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	17:58
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	17:58
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	17:58
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	17:58
Caprolactam	< 10.0	ug/L	11/8/2019	17:58
Carbazole	< 10.0	ug/L	11/8/2019	17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	17:58
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	17:58
Dibenzofuran	< 10.0	ug/L	11/8/2019	17:58
Diethyl phthalate	< 10.0	ug/L	11/8/2019	17:58
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	17:58
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	17:58
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	17:58
Fluoranthene	< 10.0	ug/L	11/8/2019	17:58
Fluorene	< 10.0	ug/L	11/8/2019	17:58
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	17:58
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	17:58
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	17:58
Hexachloroethane	< 10.0	ug/L	11/8/2019	17:58
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	17:58
Isophorone	< 10.0	ug/L	11/8/2019	17:58
Naphthalene	< 10.0	ug/L	11/8/2019	17:58
Nitrobenzene	< 10.0	ug/L	11/8/2019	17:58
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	17:58
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	17:58
Pentachlorophenol	< 20.0	ug/L	11/8/2019	17:58
Phenanthrene	< 10.0	ug/L	11/8/2019	17:58
Phenol	< 10.0	ug/L	11/8/2019	17:58
Pyrene	< 10.0	ug/L	11/8/2019	17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**66.9**	56 - 117		11/8/2019 17:58
2-Fluorobiphenyl	**55.8**	36.3 - 95.4		11/8/2019 17:58
2-Fluorophenol	**33.4**	16.1 - 103		11/8/2019 17:58
Nitrobenzene-d5	**71.3**	52.1 - 98.9		11/8/2019 17:58
Phenol-d5	**24.8**	10 - 105		11/8/2019 17:58
Terphenyl-d14	**84.3**	59.6 - 112		11/8/2019 17:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42168.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 15:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 15:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 15:44
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 15:44
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:44
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 15:44
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 15:44
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:44
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 15:44
1,4-Dioxane	< 20.0	ug/L		11/15/2019 15:44
2-Butanone	< 10.0	ug/L		11/15/2019 15:44
2-Hexanone	< 5.00	ug/L		11/15/2019 15:44
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 15:44
Acetone	< 10.0	ug/L		11/15/2019 15:44
Benzene	**6.85**	ug/L		11/15/2019 15:44
Bromochloromethane	< 5.00	ug/L		11/15/2019 15:44
Bromodichloromethane	< 2.00	ug/L		11/15/2019 15:44
Bromoform	< 5.00	ug/L		11/15/2019 15:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	15:44
Carbon disulfide	< 2.00	ug/L		11/15/2019	15:44
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	15:44
Chlorobenzene	< 2.00	ug/L		11/15/2019	15:44
Chloroethane	< 2.00	ug/L		11/15/2019	15:44
Chloroform	< 2.00	ug/L		11/15/2019	15:44
Chloromethane	< 2.00	ug/L		11/15/2019	15:44
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	15:44
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	15:44
Cyclohexane	< 10.0	ug/L		11/15/2019	15:44
Dibromochloromethane	< 2.00	ug/L		11/15/2019	15:44
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	15:44
Ethylbenzene	**3.15**	ug/L		11/15/2019	15:44
Freon 113	< 2.00	ug/L		11/15/2019	15:44
Isopropylbenzene	**5.74**	ug/L		11/15/2019	15:44
m,p-Xylene	**2.59**	ug/L		11/15/2019	15:44
Methyl acetate	< 2.00	ug/L		11/15/2019	15:44
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	15:44
Methylcyclohexane	**11.7**	ug/L		11/15/2019	15:44
Methylene chloride	< 5.00	ug/L		11/15/2019	15:44
o-Xylene	< 2.00	ug/L		11/15/2019	15:44
Styrene	< 5.00	ug/L		11/15/2019	15:44
Tetrachloroethene	< 2.00	ug/L		11/15/2019	15:44
Toluene	**1.14**	ug/L	J	11/15/2019	15:44
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	15:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-3
Lab Sample ID: 195546-05 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	15:44
Trichloroethene	< 2.00	ug/L	11/15/2019	15:44
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	15:44
Vinyl chloride	< 2.00	ug/L	11/15/2019	15:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.8**	70.5 - 135		11/15/2019	15:44
4-Bromofluorobenzene	**106**	62 - 127		11/15/2019	15:44
Pentafluorobenzene	**94.1**	87 - 113		11/15/2019	15:44
Toluene-D8	**105**	80.8 - 115		11/15/2019	15:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66318.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 18:27
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:27
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 18:27
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 18:27
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 18:27
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 18:27
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 18:27
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 18:27
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 18:27
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:27
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:27
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 18:27
2-Chlorophenol	< 10.0	ug/L		11/8/2019 18:27
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 18:27
2-Methylphenol	< 10.0	ug/L		11/8/2019 18:27
2-Nitroaniline	< 20.0	ug/L		11/8/2019 18:27
2-Nitrophenol	< 10.0	ug/L		11/8/2019 18:27
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 18:27
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	18:27
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	18:27
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:27
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	18:27
4-Chloroaniline	< 10.0	ug/L	11/8/2019	18:27
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:27
4-Nitroaniline	< 20.0	ug/L	11/8/2019	18:27
4-Nitrophenol	< 20.0	ug/L	11/8/2019	18:27
Acenaphthene	< 10.0	ug/L	11/8/2019	18:27
Acenaphthylene	< 10.0	ug/L	11/8/2019	18:27
Acetophenone	< 10.0	ug/L	11/8/2019	18:27
Anthracene	< 10.0	ug/L	11/8/2019	18:27
Atrazine	< 10.0	ug/L	11/8/2019	18:27
Benzaldehyde	< 10.0	ug/L	11/8/2019	18:27
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	18:27
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	18:27
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	18:27
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	18:27
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	18:27
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	18:27
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	18:27
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	18:27
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	18:27
Caprolactam	< 10.0	ug/L	11/8/2019	18:27
Carbazole	< 10.0	ug/L	11/8/2019	18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	18:27
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	18:27
Dibenzofuran	< 10.0	ug/L	11/8/2019	18:27
Diethyl phthalate	< 10.0	ug/L	11/8/2019	18:27
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	18:27
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	18:27
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	18:27
Fluoranthene	< 10.0	ug/L	11/8/2019	18:27
Fluorene	< 10.0	ug/L	11/8/2019	18:27
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	18:27
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	18:27
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	18:27
Hexachloroethane	< 10.0	ug/L	11/8/2019	18:27
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	18:27
Isophorone	< 10.0	ug/L	11/8/2019	18:27
Naphthalene	< 10.0	ug/L	11/8/2019	18:27
Nitrobenzene	< 10.0	ug/L	11/8/2019	18:27
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	18:27
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	18:27
Pentachlorophenol	< 20.0	ug/L	11/8/2019	18:27
Phenanthrene	< 10.0	ug/L	11/8/2019	18:27
Phenol	< 10.0	ug/L	11/8/2019	18:27
Pyrene	< 10.0	ug/L	11/8/2019	18:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**82.5**	56 - 117		11/8/2019	18:27
2-Fluorobiphenyl	**55.2**	36.3 - 95.4		11/8/2019	18:27
2-Fluorophenol	**34.0**	16.1 - 103		11/8/2019	18:27
Nitrobenzene-d5	**66.2**	52.1 - 98.9		11/8/2019	18:27
Phenol-d5	**23.6**	10 - 105		11/8/2019	18:27
Terphenyl-d14	**86.1**	59.6 - 112		11/8/2019	18:27

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42169.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 16:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 16:07
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 16:07
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:07
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 16:07
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 16:07
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:07
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:07
1,4-Dioxane	< 20.0	ug/L		11/15/2019 16:07
2-Butanone	< 10.0	ug/L		11/15/2019 16:07
2-Hexanone	< 5.00	ug/L		11/15/2019 16:07
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 16:07
Acetone	< 10.0	ug/L		11/15/2019 16:07
Benzene	**7.86**	ug/L		11/15/2019 16:07
Bromochloromethane	< 5.00	ug/L		11/15/2019 16:07
Bromodichloromethane	< 2.00	ug/L		11/15/2019 16:07
Bromoform	< 5.00	ug/L		11/15/2019 16:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L		11/15/2019	16:07
Carbon disulfide	< 2.00	ug/L		11/15/2019	16:07
Carbon Tetrachloride	< 2.00	ug/L		11/15/2019	16:07
Chlorobenzene	< 2.00	ug/L		11/15/2019	16:07
Chloroethane	< 2.00	ug/L		11/15/2019	16:07
Chloroform	< 2.00	ug/L		11/15/2019	16:07
Chloromethane	< 2.00	ug/L		11/15/2019	16:07
cis-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	16:07
cis-1,3-Dichloropropene	< 2.00	ug/L		11/15/2019	16:07
Cyclohexane	< 10.0	ug/L		11/15/2019	16:07
Dibromochloromethane	< 2.00	ug/L		11/15/2019	16:07
Dichlorodifluoromethane	< 2.00	ug/L		11/15/2019	16:07
Ethylbenzene	**3.55**	ug/L		11/15/2019	16:07
Freon 113	< 2.00	ug/L		11/15/2019	16:07
Isopropylbenzene	**7.53**	ug/L		11/15/2019	16:07
m,p-Xylene	**2.92**	ug/L		11/15/2019	16:07
Methyl acetate	< 2.00	ug/L		11/15/2019	16:07
Methyl tert-butyl Ether	< 2.00	ug/L		11/15/2019	16:07
Methylcyclohexane	< 2.00	ug/L		11/15/2019	16:07
Methylene chloride	< 5.00	ug/L		11/15/2019	16:07
o-Xylene	< 2.00	ug/L		11/15/2019	16:07
Styrene	< 5.00	ug/L		11/15/2019	16:07
Tetrachloroethene	< 2.00	ug/L		11/15/2019	16:07
Toluene	**1.18**	ug/L	J	11/15/2019	16:07
trans-1,2-Dichloroethene	< 2.00	ug/L		11/15/2019	16:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Blind Duplicate
Lab Sample ID: 195546-06 **Date Sampled:** 11/6/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:07
Trichloroethene	< 2.00	ug/L	11/15/2019	16:07
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	16:07
Vinyl chloride	< 2.00	ug/L	11/15/2019	16:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.5**	70.5 - 135		11/15/2019	16:07
4-Bromofluorobenzene	**103**	62 - 127		11/15/2019	16:07
Pentafluorobenzene	**98.2**	87 - 113		11/15/2019	16:07
Toluene-D8	**108**	80.8 - 115		11/15/2019	16:07

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66319.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 18:56
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 18:56
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 18:56
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 18:56
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 18:56
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 18:56
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 18:56
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 18:56
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 18:56
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:56
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 18:56
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 18:56
2-Chlorophenol	< 10.0	ug/L		11/8/2019 18:56
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 18:56
2-Methylphenol	< 10.0	ug/L		11/8/2019 18:56
2-Nitroaniline	< 20.0	ug/L		11/8/2019 18:56
2-Nitrophenol	< 10.0	ug/L		11/8/2019 18:56
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 18:56
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 18:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	18:56
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	18:56
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:56
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	18:56
4-Chloroaniline	< 10.0	ug/L	11/8/2019	18:56
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	18:56
4-Nitroaniline	< 20.0	ug/L	11/8/2019	18:56
4-Nitrophenol	< 20.0	ug/L	11/8/2019	18:56
Acenaphthene	< 10.0	ug/L	11/8/2019	18:56
Acenaphthylene	< 10.0	ug/L	11/8/2019	18:56
Acetophenone	< 10.0	ug/L	11/8/2019	18:56
Anthracene	< 10.0	ug/L	11/8/2019	18:56
Atrazine	< 10.0	ug/L	11/8/2019	18:56
Benzaldehyde	< 10.0	ug/L	11/8/2019	18:56
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	18:56
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	18:56
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	18:56
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	18:56
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	18:56
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	18:56
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	18:56
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	18:56
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	18:56
Caprolactam	< 10.0	ug/L	11/8/2019	18:56
Carbazole	< 10.0	ug/L	11/8/2019	18:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	18:56
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	18:56
Dibenzofuran	< 10.0	ug/L	11/8/2019	18:56
Diethyl phthalate	< 10.0	ug/L	11/8/2019	18:56
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	18:56
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	18:56
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	18:56
Fluoranthene	< 10.0	ug/L	11/8/2019	18:56
Fluorene	< 10.0	ug/L	11/8/2019	18:56
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	18:56
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	18:56
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	18:56
Hexachloroethane	< 10.0	ug/L	11/8/2019	18:56
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	18:56
Isophorone	< 10.0	ug/L	11/8/2019	18:56
Naphthalene	< 10.0	ug/L	11/8/2019	18:56
Nitrobenzene	< 10.0	ug/L	11/8/2019	18:56
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	18:56
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	18:56
Pentachlorophenol	< 20.0	ug/L	11/8/2019	18:56
Phenanthrene	< 10.0	ug/L	11/8/2019	18:56
Phenol	< 10.0	ug/L	11/8/2019	18:56
Pyrene	< 10.0	ug/L	11/8/2019	18:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.0**	56 - 117		11/8/2019	18:56
2-Fluorobiphenyl	**60.3**	36.3 - 95.4		11/8/2019	18:56
2-Fluorophenol	**34.3**	16.1 - 103		11/8/2019	18:56
Nitrobenzene-d5	**69.4**	52.1 - 98.9		11/8/2019	18:56
Phenol-d5	**23.7**	10 - 105		11/8/2019	18:56
Terphenyl-d14	**88.8**	59.6 - 112		11/8/2019	18:56

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42170.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 16:29
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:29
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:29
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 16:29
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 16:29
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:29
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 16:29
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 16:29
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:29
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:29
1,4-Dioxane	< 20.0	ug/L		11/15/2019 16:29
2-Butanone	< 10.0	ug/L		11/15/2019 16:29
2-Hexanone	< 5.00	ug/L		11/15/2019 16:29
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 16:29
Acetone	< 10.0	ug/L		11/15/2019 16:29
Benzene	**1.99**	ug/L		11/15/2019 16:29
Bromochloromethane	< 5.00	ug/L		11/15/2019 16:29
Bromodichloromethane	< 2.00	ug/L		11/15/2019 16:29
Bromoform	< 5.00	ug/L		11/15/2019 16:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	16:29
Carbon disulfide	< 2.00	ug/L	11/15/2019	16:29
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	16:29
Chlorobenzene	< 2.00	ug/L	11/15/2019	16:29
Chloroethane	< 2.00	ug/L	11/15/2019	16:29
Chloroform	< 2.00	ug/L	11/15/2019	16:29
Chloromethane	< 2.00	ug/L	11/15/2019	16:29
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:29
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:29
Cyclohexane	< 10.0	ug/L	11/15/2019	16:29
Dibromochloromethane	< 2.00	ug/L	11/15/2019	16:29
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	16:29
Ethylbenzene	< 2.00	ug/L	11/15/2019	16:29
Freon 113	< 2.00	ug/L	11/15/2019	16:29
Isopropylbenzene	< 2.00	ug/L	11/15/2019	16:29
m,p-Xylene	< 2.00	ug/L	11/15/2019	16:29
Methyl acetate	< 2.00	ug/L	11/15/2019	16:29
Methyl tert-butyl Ether	**34.2**	ug/L	11/15/2019	16:29
Methylcyclohexane	< 2.00	ug/L	11/15/2019	16:29
Methylene chloride	< 5.00	ug/L	11/15/2019	16:29
o-Xylene	< 2.00	ug/L	11/15/2019	16:29
Styrene	< 5.00	ug/L	11/15/2019	16:29
Tetrachloroethene	< 2.00	ug/L	11/15/2019	16:29
Toluene	< 2.00	ug/L	11/15/2019	16:29
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-7R
Lab Sample ID: 195546-07 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:29
Trichloroethene	< 2.00	ug/L	11/15/2019	16:29
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	16:29
Vinyl chloride	< 2.00	ug/L	11/15/2019	16:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	70.5 - 135		11/15/2019	16:29
4-Bromofluorobenzene	**94.0**	62 - 127		11/15/2019	16:29
Pentafluorobenzene	**92.2**	87 - 113		11/15/2019	16:29
Toluene-D8	**97.4**	80.8 - 115		11/15/2019	16:29

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66320.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 19:25
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:25
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 19:25
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 19:25
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 19:25
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 19:25
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 19:25
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 19:25
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 19:25
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:25
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:25
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 19:25
2-Chlorophenol	< 10.0	ug/L		11/8/2019 19:25
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 19:25
2-Methylphenol	< 10.0	ug/L		11/8/2019 19:25
2-Nitroaniline	< 20.0	ug/L		11/8/2019 19:25
2-Nitrophenol	< 10.0	ug/L		11/8/2019 19:25
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 19:25
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 19:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	19:25
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	19:25
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:25
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	19:25
4-Chloroaniline	< 10.0	ug/L	11/8/2019	19:25
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:25
4-Nitroaniline	< 20.0	ug/L	11/8/2019	19:25
4-Nitrophenol	< 20.0	ug/L	11/8/2019	19:25
Acenaphthene	< 10.0	ug/L	11/8/2019	19:25
Acenaphthylene	< 10.0	ug/L	11/8/2019	19:25
Acetophenone	< 10.0	ug/L	11/8/2019	19:25
Anthracene	< 10.0	ug/L	11/8/2019	19:25
Atrazine	< 10.0	ug/L	11/8/2019	19:25
Benzaldehyde	< 10.0	ug/L	11/8/2019	19:25
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	19:25
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	19:25
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	19:25
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	19:25
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	19:25
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	19:25
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	19:25
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	19:25
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	19:25
Caprolactam	< 10.0	ug/L	11/8/2019	19:25
Carbazole	< 10.0	ug/L	11/8/2019	19:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	19:25
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	19:25
Dibenzofuran	< 10.0	ug/L	11/8/2019	19:25
Diethyl phthalate	< 10.0	ug/L	11/8/2019	19:25
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	19:25
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	19:25
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	19:25
Fluoranthene	< 10.0	ug/L	11/8/2019	19:25
Fluorene	< 10.0	ug/L	11/8/2019	19:25
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	19:25
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	19:25
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	19:25
Hexachloroethane	< 10.0	ug/L	11/8/2019	19:25
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	19:25
Isophorone	< 10.0	ug/L	11/8/2019	19:25
Naphthalene	< 10.0	ug/L	11/8/2019	19:25
Nitrobenzene	< 10.0	ug/L	11/8/2019	19:25
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	19:25
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	19:25
Pentachlorophenol	< 20.0	ug/L	11/8/2019	19:25
Phenanthrene	< 10.0	ug/L	11/8/2019	19:25
Phenol	< 10.0	ug/L	11/8/2019	19:25
Pyrene	< 10.0	ug/L	11/8/2019	19:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**90.1**	56 - 117		11/8/2019 19:25
2-Fluorobiphenyl	**58.4**	36.3 - 95.4		11/8/2019 19:25
2-Fluorophenol	**40.5**	16.1 - 103		11/8/2019 19:25
Nitrobenzene-d5	**72.8**	52.1 - 98.9		11/8/2019 19:25
Phenol-d5	**27.5**	10 - 105		11/8/2019 19:25
Terphenyl-d14	**87.5**	59.6 - 112		11/8/2019 19:25

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42171.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 16:52
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:52
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 16:52
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 16:52
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 16:52
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:52
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 16:52
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 16:52
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:52
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 16:52
1,4-Dioxane	< 20.0	ug/L		11/15/2019 16:52
2-Butanone	< 10.0	ug/L		11/15/2019 16:52
2-Hexanone	< 5.00	ug/L		11/15/2019 16:52
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 16:52
Acetone	< 10.0	ug/L		11/15/2019 16:52
Benzene	< 1.00	ug/L		11/15/2019 16:52
Bromochloromethane	< 5.00	ug/L		11/15/2019 16:52
Bromodichloromethane	< 2.00	ug/L		11/15/2019 16:52
Bromoform	< 5.00	ug/L		11/15/2019 16:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	16:52
Carbon disulfide	< 2.00	ug/L	11/15/2019	16:52
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	16:52
Chlorobenzene	< 2.00	ug/L	11/15/2019	16:52
Chloroethane	< 2.00	ug/L	11/15/2019	16:52
Chloroform	< 2.00	ug/L	11/15/2019	16:52
Chloromethane	< 2.00	ug/L	11/15/2019	16:52
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:52
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:52
Cyclohexane	< 10.0	ug/L	11/15/2019	16:52
Dibromochloromethane	< 2.00	ug/L	11/15/2019	16:52
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	16:52
Ethylbenzene	< 2.00	ug/L	11/15/2019	16:52
Freon 113	< 2.00	ug/L	11/15/2019	16:52
Isopropylbenzene	< 2.00	ug/L	11/15/2019	16:52
m,p-Xylene	< 2.00	ug/L	11/15/2019	16:52
Methyl acetate	< 2.00	ug/L	11/15/2019	16:52
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	16:52
Methylcyclohexane	< 2.00	ug/L	11/15/2019	16:52
Methylene chloride	< 5.00	ug/L	11/15/2019	16:52
o-Xylene	< 2.00	ug/L	11/15/2019	16:52
Styrene	< 5.00	ug/L	11/15/2019	16:52
Tetrachloroethene	< 2.00	ug/L	11/15/2019	16:52
Toluene	< 2.00	ug/L	11/15/2019	16:52
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	16:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-2
Lab Sample ID: 195546-08 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	16:52
Trichloroethene	< 2.00	ug/L	11/15/2019	16:52
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	16:52
Vinyl chloride	< 2.00	ug/L	11/15/2019	16:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	70.5 - 135		11/15/2019	16:52
4-Bromofluorobenzene	**84.5**	62 - 127		11/15/2019	16:52
Pentafluorobenzene	**95.6**	87 - 113		11/15/2019	16:52
Toluene-D8	**94.8**	80.8 - 115		11/15/2019	16:52

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66321.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		11/8/2019 19:54
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,2,4-Trichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,2-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,3-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
1,4-Dichlorobenzene	< 10.0	ug/L		11/8/2019 19:54
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		11/8/2019 19:54
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		11/8/2019 19:54
2,4,5-Trichlorophenol	< 20.0	ug/L		11/8/2019 19:54
2,4,6-Trichlorophenol	< 10.0	ug/L		11/8/2019 19:54
2,4-Dichlorophenol	< 10.0	ug/L		11/8/2019 19:54
2,4-Dimethylphenol	< 20.0	ug/L		11/8/2019 19:54
2,4-Dinitrophenol	< 20.0	ug/L		11/8/2019 19:54
2,4-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:54
2,6-Dinitrotoluene	< 10.0	ug/L		11/8/2019 19:54
2-Chloronaphthalene	< 10.0	ug/L		11/8/2019 19:54
2-Chlorophenol	< 10.0	ug/L		11/8/2019 19:54
2-Methylnapthalene	< 10.0	ug/L		11/8/2019 19:54
2-Methylphenol	< 10.0	ug/L		11/8/2019 19:54
2-Nitroaniline	< 20.0	ug/L		11/8/2019 19:54
2-Nitrophenol	< 10.0	ug/L		11/8/2019 19:54
3&4-Methylphenol	< 10.0	ug/L		11/8/2019 19:54
3,3'-Dichlorobenzidine	< 10.0	ug/L		11/8/2019 19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

3-Nitroaniline	< 20.0	ug/L	11/8/2019	19:54
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	11/8/2019	19:54
4-Bromophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:54
4-Chloro-3-methylphenol	< 10.0	ug/L	11/8/2019	19:54
4-Chloroaniline	< 10.0	ug/L	11/8/2019	19:54
4-Chlorophenyl phenyl ether	< 10.0	ug/L	11/8/2019	19:54
4-Nitroaniline	< 20.0	ug/L	11/8/2019	19:54
4-Nitrophenol	< 20.0	ug/L	11/8/2019	19:54
Acenaphthene	< 10.0	ug/L	11/8/2019	19:54
Acenaphthylene	< 10.0	ug/L	11/8/2019	19:54
Acetophenone	< 10.0	ug/L	11/8/2019	19:54
Anthracene	< 10.0	ug/L	11/8/2019	19:54
Atrazine	< 10.0	ug/L	11/8/2019	19:54
Benzaldehyde	< 10.0	ug/L	11/8/2019	19:54
Benzo (a) anthracene	< 10.0	ug/L	11/8/2019	19:54
Benzo (a) pyrene	< 10.0	ug/L	11/8/2019	19:54
Benzo (b) fluoranthene	< 10.0	ug/L	11/8/2019	19:54
Benzo (g,h,i) perylene	< 10.0	ug/L	11/8/2019	19:54
Benzo (k) fluoranthene	< 10.0	ug/L	11/8/2019	19:54
Bis (2-chloroethoxy) methane	< 10.0	ug/L	11/8/2019	19:54
Bis (2-chloroethyl) ether	< 10.0	ug/L	11/8/2019	19:54
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	11/8/2019	19:54
Butylbenzylphthalate	< 10.0	ug/L	11/8/2019	19:54
Caprolactam	< 10.0	ug/L	11/8/2019	19:54
Carbazole	< 10.0	ug/L	11/8/2019	19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Chrysene	< 10.0	ug/L	11/8/2019	19:54
Dibenz (a,h) anthracene	< 10.0	ug/L	11/8/2019	19:54
Dibenzofuran	< 10.0	ug/L	11/8/2019	19:54
Diethyl phthalate	< 10.0	ug/L	11/8/2019	19:54
Dimethyl phthalate	< 20.0	ug/L	11/8/2019	19:54
Di-n-butyl phthalate	< 10.0	ug/L	11/8/2019	19:54
Di-n-octylphthalate	< 10.0	ug/L	11/8/2019	19:54
Fluoranthene	< 10.0	ug/L	11/8/2019	19:54
Fluorene	< 10.0	ug/L	11/8/2019	19:54
Hexachlorobenzene	< 10.0	ug/L	11/8/2019	19:54
Hexachlorobutadiene	< 10.0	ug/L	11/8/2019	19:54
Hexachlorocyclopentadiene	< 10.0	ug/L	11/8/2019	19:54
Hexachloroethane	< 10.0	ug/L	11/8/2019	19:54
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	11/8/2019	19:54
Isophorone	< 10.0	ug/L	11/8/2019	19:54
Naphthalene	< 10.0	ug/L	11/8/2019	19:54
Nitrobenzene	< 10.0	ug/L	11/8/2019	19:54
N-Nitroso-di-n-propylamine	< 10.0	ug/L	11/8/2019	19:54
N-Nitrosodiphenylamine	< 10.0	ug/L	11/8/2019	19:54
Pentachlorophenol	< 20.0	ug/L	11/8/2019	19:54
Phenanthrene	< 10.0	ug/L	11/8/2019	19:54
Phenol	< 10.0	ug/L	11/8/2019	19:54
Pyrene	< 10.0	ug/L	11/8/2019	19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**71.9**	56 - 117		11/8/2019 19:54
2-Fluorobiphenyl	**47.1**	36.3 - 95.4		11/8/2019 19:54
2-Fluorophenol	**32.6**	16.1 - 103		11/8/2019 19:54
Nitrobenzene-d5	**61.9**	52.1 - 98.9		11/8/2019 19:54
Phenol-d5	**23.1**	10 - 105		11/8/2019 19:54
Terphenyl-d14	**67.9**	59.6 - 112		11/8/2019 19:54

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 11/8/2019
Data File: B42172.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1,2-Trichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1-Dichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,1-Dichloroethene	< 2.00	ug/L		11/15/2019 17:15
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/15/2019 17:15
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/15/2019 17:15
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/15/2019 17:15
1,2-Dibromoethane	< 2.00	ug/L		11/15/2019 17:15
1,2-Dichlorobenzene	< 2.00	ug/L		11/15/2019 17:15
1,2-Dichloroethane	< 2.00	ug/L		11/15/2019 17:15
1,2-Dichloropropane	< 2.00	ug/L		11/15/2019 17:15
1,3-Dichlorobenzene	< 2.00	ug/L		11/15/2019 17:15
1,4-Dichlorobenzene	< 2.00	ug/L		11/15/2019 17:15
1,4-Dioxane	< 20.0	ug/L		11/15/2019 17:15
2-Butanone	< 10.0	ug/L		11/15/2019 17:15
2-Hexanone	< 5.00	ug/L		11/15/2019 17:15
4-Methyl-2-pentanone	< 5.00	ug/L		11/15/2019 17:15
Acetone	< 10.0	ug/L		11/15/2019 17:15
Benzene	< 1.00	ug/L		11/15/2019 17:15
Bromochloromethane	< 5.00	ug/L		11/15/2019 17:15
Bromodichloromethane	< 2.00	ug/L		11/15/2019 17:15
Bromoform	< 5.00	ug/L		11/15/2019 17:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/15/2019	17:15
Carbon disulfide	< 2.00	ug/L	11/15/2019	17:15
Carbon Tetrachloride	< 2.00	ug/L	11/15/2019	17:15
Chlorobenzene	< 2.00	ug/L	11/15/2019	17:15
Chloroethane	< 2.00	ug/L	11/15/2019	17:15
Chloroform	< 2.00	ug/L	11/15/2019	17:15
Chloromethane	< 2.00	ug/L	11/15/2019	17:15
cis-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	17:15
cis-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	17:15
Cyclohexane	< 10.0	ug/L	11/15/2019	17:15
Dibromochloromethane	< 2.00	ug/L	11/15/2019	17:15
Dichlorodifluoromethane	< 2.00	ug/L	11/15/2019	17:15
Ethylbenzene	< 2.00	ug/L	11/15/2019	17:15
Freon 113	< 2.00	ug/L	11/15/2019	17:15
Isopropylbenzene	< 2.00	ug/L	11/15/2019	17:15
m,p-Xylene	< 2.00	ug/L	11/15/2019	17:15
Methyl acetate	< 2.00	ug/L	11/15/2019	17:15
Methyl tert-butyl Ether	< 2.00	ug/L	11/15/2019	17:15
Methylcyclohexane	< 2.00	ug/L	11/15/2019	17:15
Methylene chloride	< 5.00	ug/L	11/15/2019	17:15
o-Xylene	< 2.00	ug/L	11/15/2019	17:15
Styrene	< 5.00	ug/L	11/15/2019	17:15
Tetrachloroethene	< 2.00	ug/L	11/15/2019	17:15
Toluene	< 2.00	ug/L	11/15/2019	17:15
trans-1,2-Dichloroethene	< 2.00	ug/L	11/15/2019	17:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: MW-16
Lab Sample ID: 195546-09 **Date Sampled:** 11/7/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/15/2019	17:15
Trichloroethene	< 2.00	ug/L	11/15/2019	17:15
Trichlorofluoromethane	< 2.00	ug/L	11/15/2019	17:15
Vinyl chloride	< 2.00	ug/L	11/15/2019	17:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	70.5 - 135		11/15/2019	17:15
4-Bromofluorobenzene	**85.8**	62 - 127		11/15/2019	17:15
Pentafluorobenzene	**93.4**	87 - 113		11/15/2019	17:15
Toluene-D8	**94.7**	80.8 - 115		11/15/2019	17:15

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66322.D

Report Prepared Thursday, November 21, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T953
Lab Sample ID: 195546-10 **Date Sampled:** 11/5/2019
Matrix: Water **Date Received:** 11/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1,2-Trichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1-Dichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,1-Dichloroethene	< 2.00	ug/L		11/19/2019 15:54
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/19/2019 15:54
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/19/2019 15:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/19/2019 15:54
1,2-Dibromoethane	< 2.00	ug/L		11/19/2019 15:54
1,2-Dichlorobenzene	< 2.00	ug/L		11/19/2019 15:54
1,2-Dichloroethane	< 2.00	ug/L		11/19/2019 15:54
1,2-Dichloropropane	< 2.00	ug/L		11/19/2019 15:54
1,3-Dichlorobenzene	< 2.00	ug/L		11/19/2019 15:54
1,4-Dichlorobenzene	< 2.00	ug/L		11/19/2019 15:54
1,4-Dioxane	< 20.0	ug/L		11/19/2019 15:54
2-Butanone	< 10.0	ug/L		11/19/2019 15:54
2-Hexanone	< 5.00	ug/L		11/19/2019 15:54
4-Methyl-2-pentanone	< 5.00	ug/L		11/19/2019 15:54
Acetone	< 10.0	ug/L		11/19/2019 15:54
Benzene	< 1.00	ug/L		11/19/2019 15:54
Bromochloromethane	< 5.00	ug/L		11/19/2019 15:54
Bromodichloromethane	< 2.00	ug/L		11/19/2019 15:54
Bromoform	< 5.00	ug/L		11/19/2019 15:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T953
Lab Sample ID: 195546-10 **Date Sampled:** 11/5/2019
Matrix: Water **Date Received:** 11/7/2019

Bromomethane	< 2.00	ug/L	11/19/2019	15:54
Carbon disulfide	< 2.00	ug/L	11/19/2019	15:54
Carbon Tetrachloride	< 2.00	ug/L	11/19/2019	15:54
Chlorobenzene	< 2.00	ug/L	11/19/2019	15:54
Chloroethane	< 2.00	ug/L	11/19/2019	15:54
Chloroform	< 2.00	ug/L	11/19/2019	15:54
Chloromethane	< 2.00	ug/L	11/19/2019	15:54
cis-1,2-Dichloroethene	< 2.00	ug/L	11/19/2019	15:54
cis-1,3-Dichloropropene	< 2.00	ug/L	11/19/2019	15:54
Cyclohexane	< 10.0	ug/L	11/19/2019	15:54
Dibromochloromethane	< 2.00	ug/L	11/19/2019	15:54
Dichlorodifluoromethane	< 2.00	ug/L	11/19/2019	15:54
Ethylbenzene	< 2.00	ug/L	11/19/2019	15:54
Freon 113	< 2.00	ug/L	11/19/2019	15:54
Isopropylbenzene	< 2.00	ug/L	11/19/2019	15:54
m,p-Xylene	< 2.00	ug/L	11/19/2019	15:54
Methyl acetate	< 2.00	ug/L	11/19/2019	15:54
Methyl tert-butyl Ether	< 2.00	ug/L	11/19/2019	15:54
Methylcyclohexane	< 2.00	ug/L	11/19/2019	15:54
Methylene chloride	< 5.00	ug/L	11/19/2019	15:54
o-Xylene	< 2.00	ug/L	11/19/2019	15:54
Styrene	< 5.00	ug/L	11/19/2019	15:54
Tetrachloroethene	< 2.00	ug/L	11/19/2019	15:54
Toluene	< 2.00	ug/L	11/19/2019	15:54
trans-1,2-Dichloroethene	< 2.00	ug/L	11/19/2019	15:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 195546

Client: **City of Rochester**

Project Reference: 1200 East Main Street

Sample Identifier: Trip Blank T953
Lab Sample ID: 195546-10 **Date Sampled:** 11/5/2019
Matrix: Water **Date Received:** 11/7/2019

trans-1,3-Dichloropropene	< 2.00	ug/L	11/19/2019	15:54
Trichloroethene	< 2.00	ug/L	11/19/2019	15:54
Trichlorofluoromethane	< 2.00	ug/L	11/19/2019	15:54
Vinyl chloride	< 2.00	ug/L	11/19/2019	15:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	70.5 - 135		11/19/2019	15:54
4-Bromofluorobenzene	**85.8**	62 - 127		11/19/2019	15:54
Pentafluorobenzene	**98.7**	87 - 113		11/19/2019	15:54
Toluene-D8	**95.2**	80.8 - 115		11/19/2019	15:54

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x66437.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. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform 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 th 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.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	195546
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/6/2019	1140		X	MW-11	W (per visual mm 11/7/19)	3	X	X		01
↓	1140		X	MW-11 (MS)	↓	3	X	X		01
↓	1140		X	MW-11 (MSD)	↓	3	X	X		01
↓	1232		X	MW-15R	↓	3	X	X		02
↓	~~1337~~ 1345 AZ		X	MW-9R	↓	3	X	X		03
↓	1435		X	MW-1	↓	3	X	X		04
↓	1545		X	MW-3	↓	3	X	X		05
↓	NA		X	Blind Duplicate	↓	3	X	X		06
11/7/2019	1042		X	MW-7R	↓	3	X	X		07
	1325		X	MW-2	↓	3	X	X		08

4°C iced 11/7/19 1555
11/6/19 No custody seals client delivered MN

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Sampled By: Alexandra Zobel	Date/Time: ~~11/6/19~~ AZ 11/7/19	Total Cost:
Relinquished By: Alexandra Zobel	Date/Time: 11/7/19 @ 1543	
Received By: Jane J Daloia	Date/Time: 11/7/19 1543	P.I.F.
Received @ Lab By: Molly Nail	Date/Time: 11/7/19 1630	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

2063

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	LAB PROJECT ID: 195546
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 19009358

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
11/7/2019	1415		X	MW-16	W	3	X	X		09
11/5/19				Trip Blank T953 per label mw 11/7/19	W	1	X			10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☑		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Alexandra Zobel	11/6/2019 11/7/2019	Total Cost:
Sampled By	Date/Time	
Alexandra Zobel	11/7/2019 @ 1543	
Relinquished By	Date/Time	
[signature]	11/7/19 1543	P.I.F.
Received By	Date/Time	
Molly Nail	11/7/19 1650	
Received @ Lab By	Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: City of Roch **Completed by:** Molly Laid

Lab Project ID: 195546 **Date:** 11/7/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		SVOA
Comments			
Preservation	VOA		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X 4°C iced		
Comments			
Compliant Sample Quantity/Type	X		
Comments			

City of Rochester

Office of the Commissioner
Department of Environmental Services
City Hall Room 300B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov

Division of
Environmental Quality

May 20th, 2020

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, NY 14414-9516
Attn: Charlotte Theobald

Re: Quarterly Report
1200 East Main Street
Site No.: B00129

Dear Ms. Theobald,

The City of Rochester's Division of Environmental Quality conducted the fourth of the quarterly post-remediation groundwater monitoring at the 1200 East Main Street site (Site) on February 20th and February 21st of 2020. Groundwater samples were collected using low-flow sampling techniques in accordance with Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Table 1.0 – February, 2020 VOC Detections

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5 *
Date	Feb-20	Feb-20	Feb-20	Feb-20	Feb-20	Feb-20	Feb-20	Feb-20	Feb-20	Feb-20	
TCL VOCs (ug/L)											
Benzene	**5.28**	ND (1.00)	**2.11**	**4.78**	**6.7**	ND (1.00)	ND (1.00)	**0.84**	ND (1.00)	ND (1.00)	**1.0**
Cyclohexane	**70.9**	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	**NA**
Ethylbenzene	**84.0**	ND (2.00)	ND (2.00)	**19.5**	**21.4**	ND (2.00)	ND (2.00)	**5.41**	**3.3**	ND (2.00)	**5.0**
Isopropylbenzene	**6.48**	ND (2.00)	**2.53**	ND (2.00)	**2.32**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**5.0**
m,p-Xylene	**48.5**	ND (2.00)	ND (2.00)	**4.17**	**5.05**	ND (2.00)	ND (2.00)	**2.75**	ND (2.00)	ND (2.00)	**5.0**
Methylcyclohexane	**29.4**	ND (2.00)	ND (2.00)	ND (2.00)	**2.75**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**NA**
o-Xylene	**7.64**	ND (2.00)	ND (2.00)	ND (2.00)	**1.58**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**5.0**
Tolulene	**2.28**	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	**5.0**
Total VOCs	**254.48**	**0.00**	**4.64**	**28.45**	**39.80**	**0.00**	**0.00**	**9.00**	**3.30**	**0.00**	**NA**

Note:
* **Bold & underlined** font denotes a VOC detection exceeding NYSDEC Part 703.5 Groundwater standards.

Table 1 summarizes detected compound concentrations at each of the sampled wells. Field data logs are included as Attachment 1. Laboratory analytical data is included as Attachment 2. The field QA/QC laboratory data is included on the enclosed CD as Attachment 3.

Tables 2.1 and 2.2 are included to illustrate the historic levels of Total VOCs and Benzene, respectively, from the time of the oxygen system operation, through the present. Four (4) rounds of groundwater sampling have been completed since the system was removed in March, 2019.

Table 2.1 – Historical VOC Totals

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16
Date	Total VOCs										
Nov-16	163.08	13.80	30.60	701.30	112.98	59.28	0.00	NS	16.90	2.00	0.98
Mar-17	305.10	0.00	43.45	122.50	32.40	0.00	0.00	0.00	26.70	222.30	2.30
Aug-17	246.60	0.00	29.81	32.27	21.16	0.00	0.00	NS	63.69	182.13	0.00
Nov-17	0.00	0.00	5.84	8.74	15.34	0.00	0.00	NS	28.54	164.00	0.00
Mar-18	364.54	0.00	6.28	135.91	199.30	0.00	0.00	0.00	56.97	144.66	0.00
Oxygen injection system shut off March, 2019											
May-19	173.18	0.00	8.64	8.20	65.53	2.68	0.00	NS	7.34	83.47	0.00
Aug-19	35.82	NS	29.54	3.09	48.70	NS	0.00	NS	20.85	21.98	0.00
Nov-19	87.44	0.00	18.33	0.00	36.19	NS	0.00	NS	17.38	11.99	0.00
Feb-20	254.48	0.00	4.64	28.45	39.80	0.00	0.00	NS	9.00	3.30	0.00

Notes:
ND (X) denotes that the compound was analyzed but not detected at or above the quantitation limit (X)
NS denotes that the well was not sampled

Table 2.2 – Historical Benzene Levels

Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-7R	MW-8	MW-9R	MW-10	MW-11	MW-15R	MW-16	NYSDEC Groundwater Standards Part 703.5
Date	Benzene											
Nov-16	0.86	1.80	20.70	47.60	53.90	ND (1.0)	ND (1.0)	NS	2.80	ND (1.0)	ND (1.0)	1.0
Mar-17	13.00	ND (1.0)	2.10	7.00	0.72	ND (1.0)	ND (1.0)	ND (1.0)	2.10	4.80	ND (1.0)	1.0
Aug-17	7.03	ND (1.0)	5.65	1.76	1.12	ND (1.0)	ND (1.0)	NS	4.85	4.68	ND (1.0)	1.0
Nov-17	ND (1.0)	ND (1.0)	1.67	0.81	ND (1.0)	ND (1.0)	ND (1.0)	NS	2.30	4.70	ND (1.0)	1.0
Mar-18	5.04	ND (1.0)	0.99	7.87	1.83	ND (1.0)	ND (1.0)	ND (1.0)	0.60	4.72	ND (1.0)	1.0
Oxygen injection system shut off March, 2019												
May-19	7.27	ND (1.0)	2.45	0.68	2.72	1.12	ND (1.0)	NS	ND (1.0)	3.85	ND (1.0)	1.0
Aug-19	ND (1.0)	NS	2.03	3.09	ND (1.0)	NS	ND (1.0)	NS	1.41	1.73	ND (1.0)	1.0
Nov-19	4.28	ND (1.0)	6.85	NS	1.99	NS	ND (1.0)	NS	0.912	3.11	ND (1.0)	1.0
Feb-20	5.28	ND (1.0)	2.11	4.78	6.7	ND (1.00)	ND (1.0)	NS	0.84	ND (1.0)	ND (1.0)	1.0

Notes:
ND (X) denotes that the compound was analyzed but **not detected** at or above the quantitation limit (X)
NS denotes that the well was not sampled
* **Bold & underlined** font denotes a Benzene detection exceeding NYSDEC Part 703.5 Groundwater standards.

The historical VOC totals and Benzene concentrations in each well have not fluctuated significantly since the oxygen injection system was shut off in March, 2019. These trends indicate that the remedy at the Site has been effective. Please note that MW-10 has been eliminated from the sampling program as the well is broken/non-operational.

This was the fourth of four (4) quarterly post-remediation groundwater monitoring events. The City will follow up with electronic data deliverables (EDDs) that will be compatible with NYSDEC's requirements for EDDs.

Sincerely,
Division of Environmental Quality

Alexandra Zobel
Assistant Environmental Technician

Figure:

Figure 1: 1200 East Main Street: February, 2020 VOC Detections & Exceedances

Attachments:

Attachment 1: Q4 Groundwater Sampling Logs
Attachment 2: Q4 Laboratory Results
Attachment 3: Full Laboratory Package **(CD)**

G:\ENVQUAL\Alex\Projects\1200 E Main\Reports\Quarterly Reports\Q 4 Report\1200 East Main Q4 Report_5-20-20.docx

Figure 1

City of Rochester, NY
Lovely A. Warren, Mayor

1200 East Main Street

February, 2020 VOC Detections & Exceedances

Attachments

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** ______ **Well No.** MW-1 **Date** 2/21/2020

Well Depth ______ **Screen Length** ______ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** ______ **Water Level** 16.92'

Measuring Point ______ **Other Infor** ______

started pumping @ 1410

Sampling Personnel A Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1440	6.70	10.0	1.044	1.59	106.14				- water most colored
1445	6.78	9.9	1.032	1.21	99.60				- emptied low flow cell, refilled
1450	6.87	9.7	1.081	1.32	~~48~~ 45.84				
1455	6.85	10.1	1.098	0.71	~~40.56~~ 209.71				
15⁰⁰	6.85	10.0	1.124	0.54	25.61	?			
15⁰⁵	6.86	9.7	1.135	0.53	6.00				
15¹⁰	6.87	9.7	1.146	0.34	4.51				

Type of Samples Collected

TCL VOCs & TCL SVOCs collected @ 1515

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-2 **Date** 2/20/20

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 15.65'

Measuring Point _____ **Other Infor** Started pumping @ 1245

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1250	6.78	9.9	1.118	2.43	12.55				
1255	6.75	9.7	1.112	2.22	9.20				
1300	6.75	9.9	1.111	2.19	8.65				

Type of Samples Collected Collected TCL VOCs + TCL SVOCs @ 1300

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-3 **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 12.62'

Measuring Point _____ **Other Infor** _____

started pumping @ 15[25]

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
15[30]	7.09	10.5	0.947	1.40	47.38			-	Water very dark @ first. Getting lighter
15[35]	7.05	10.2	1.004	0.30	16.26				
15[40]	7.04	10.1	1.069	0.28	11.55				
15[45]	7.07	10.0	1.199	0.27	5.57				
15[50]	7.10	9.9	1.233	0.24	2.20				

Type of Samples Collected

TCL VOCs + TCL SVOCs Collected @ 15[55]

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-4 **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.25 13.25'

Measuring Point _____ **Other Infor** _____

started pumping @ 1243

Sampling Personnel H. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1250	6.66	10.6	0.75	0.83	130001				Water V. Low
1255	6.63	10.2	1.696	0.39	12702				w/ Sediment
1300	6.62	10.2	1.704	0.32	62.08				
1305	6.62	10.5	1.700	0.38	57.68				
1310	6.62	10.7	1.700	0.46	48.60				
1315	6.66	7.0	1.817	0.44	121.65				
1320	6.65	7.0	1.814	0.43	107.84				
1325	6.64	7.2	1.802	0.42	113.90				

Type of Samples Collected

TCL VOCs + TCL SVOCs collected @ 1330

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-7R **Date** 02/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 15.4'

Measuring Point _____ **Other Infor** _____

Started pumping @ 1349

Sampling Personnel J. H. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1350	6.77	11.3	2.070	0.47	596.02				
1355	6.76	11.0	2.065	0.30	88.59				
1400	6.81	10.9	1.604	0.22	140.12				
1405	6.82	10.8	1.532	0.20	122.57				
1410	6.83	10.5	1.502	0.19	193.22				
1415	6.83	10.4	1.500	0.19	159.82				
1420	6.83	10.3	1.496	0.18	154.54				
1425	6.83	10.4	1.480	0.17	153.50				

Type of Samples Collected

Sample TCL VOCs + TCL SVOCs @ 1430

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-8 **Date** 2/20/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 18.1'

Measuring Point _____ **Other Infor** started purging @ 1127

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1130	7.24	10.3	4.813	9.22	2.87	N/A			
1135	7.25	10.4	5.023	9.72	2.38				
1140	7.27	10.7	5.086	9.47	6.24				

Type of Samples Collected TCL VOCs + TCL SVOCs collected @ 1140

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-9R **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 11.0'

Measuring Point _____ **Other Infor** Started pumping @ 1030

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1030	7.23	9.8	1.969	1.32	6.25				
1035	7.02	9.9	1.965	0.60	5.30				
1040	7.00	9.5	1.957	0.56	11.20				
1045	7.00	9.5	1.952	0.56	10.15				

Type of Samples Collected TCL VOCs + TCL SVOCs Collected @ 1050

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-11 **Date** 2/20/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** PVC

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 14.75'

Measuring Point _____ **Other Infor** _____

Started pumping @ 1430

Sampling Personnel A Zabul

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1435	6.53	9.5	1.129	0.65	107.0				
1440	6.53	9.7	1.124	0.35	74.01				
1445	6.53	9.6	1.123	0.31	51.0				
1450	6.53	9.6	1.119	0.26	65.38				
1455	6.54	9.1	1.114	0.23	63.53				
1500	6.55	8.7	1.110	0.22	61.55				
1505	6.55	8.1	1.109	0.21	55.53				

Type of Samples Collected

sample TCL VOCs + TCL SVOCs @ 1510

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E. Main **Site** _____ **Well No.** MW-15R **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.3'

Measuring Point _____ **Other Infor** started pumping @ 900

Sampling Personnel A. Zobel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
905	6.56	9.0	1.597	6.85	1.30				
910	6.58	9.3	1.601	6.80	0.98				
915	6.60	9.1	1.587	6.83	0.95				

Type of Samples Collected

TCL VOCs, TCL SVOCs MS/MSD collected @ 920 + Blind Dup

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Figure 2. **Ground Water Sampling Log**

Project 1200 E Main **Site** _____ **Well No.** MW-16 **Date** 2/21/2020

Well Depth _____ **Screen Length** _____ **Well Diameter** 2" **Casing Type** _____

Sampling Device YSI Pro **Tubing type** _____ **Water Level** 13.3'

Measuring Point _____ **Other Infor** _____

started pumping @ 1105

Sampling Personnel A. Zabel

Time	pH	Temp	Cond.	Dis.O_2	Turb.	[ ]Conc			Notes
1110	6.53	9.5	~~0.30~~ 1.556	0.38	50.17				- rust colored
1115	6.53	9.4	1.597	0.23	30.72				water at first
1120	6.54	9.3	1.607	0.23	31.78				
1125	6.54	9.5	1.601	0.22	31.17				

Type of Samples Collected

TCL VOCs + TCL SVOCs sampled @ 1130

Information: 2 in = 617 ml/ft, 4 in = 2470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.4	ug/L		2/25/2020 15:00
1,2,4,5-Tetrachlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,2,4-Trichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,2-Dichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,3-Dichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
1,4-Dichlorobenzene	< 10.4	ug/L		2/25/2020 15:00
2,2-Oxybis (1-chloropropane)	< 10.4	ug/L		2/25/2020 15:00
2,3,4,6-Tetrachlorophenol	< 10.4	ug/L		2/25/2020 15:00
2,4,5-Trichlorophenol	< 20.7	ug/L		2/25/2020 15:00
2,4,6-Trichlorophenol	< 10.4	ug/L		2/25/2020 15:00
2,4-Dichlorophenol	< 10.4	ug/L		2/25/2020 15:00
2,4-Dimethylphenol	< 20.7	ug/L		2/25/2020 15:00
2,4-Dinitrophenol	< 20.7	ug/L		2/25/2020 15:00
2,4-Dinitrotoluene	< 10.4	ug/L		2/25/2020 15:00
2,6-Dinitrotoluene	< 10.4	ug/L		2/25/2020 15:00
2-Chloronaphthalene	< 10.4	ug/L		2/25/2020 15:00
2-Chlorophenol	< 10.4	ug/L		2/25/2020 15:00
2-Methylnapthalene	< 10.4	ug/L		2/25/2020 15:00
2-Methylphenol	< 10.4	ug/L		2/25/2020 15:00
2-Nitroaniline	< 20.7	ug/L		2/25/2020 15:00
2-Nitrophenol	< 10.4	ug/L		2/25/2020 15:00
3&4-Methylphenol	< 10.4	ug/L		2/25/2020 15:00
3,3'-Dichlorobenzidine	< 10.4	ug/L		2/25/2020 15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-8		
Lab Sample ID:	200801-01	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.7	ug/L	2/25/2020	15:00
4,6-Dinitro-2-methylphenol	< 20.7	ug/L	2/25/2020	15:00
4-Bromophenyl phenyl ether	< 10.4	ug/L	2/25/2020	15:00
4-Chloro-3-methylphenol	< 10.4	ug/L	2/25/2020	15:00
4-Chloroaniline	< 10.4	ug/L	2/25/2020	15:00
4-Chlorophenyl phenyl ether	< 10.4	ug/L	2/25/2020	15:00
4-Nitroaniline	< 20.7	ug/L	2/25/2020	15:00
4-Nitrophenol	< 20.7	ug/L	2/25/2020	15:00
Acenaphthene	< 10.4	ug/L	2/25/2020	15:00
Acenaphthylene	< 10.4	ug/L	2/25/2020	15:00
Acetophenone	< 10.4	ug/L	2/25/2020	15:00
Anthracene	< 10.4	ug/L	2/25/2020	15:00
Atrazine	< 10.4	ug/L	2/25/2020	15:00
Benzaldehyde	< 10.4	ug/L	2/25/2020	15:00
Benzo (a) anthracene	< 10.4	ug/L	2/25/2020	15:00
Benzo (a) pyrene	< 10.4	ug/L	2/25/2020	15:00
Benzo (b) fluoranthene	< 10.4	ug/L	2/25/2020	15:00
Benzo (g,h,i) perylene	< 10.4	ug/L	2/25/2020	15:00
Benzo (k) fluoranthene	< 10.4	ug/L	2/25/2020	15:00
Bis (2-chloroethoxy) methane	< 10.4	ug/L	2/25/2020	15:00
Bis (2-chloroethyl) ether	< 10.4	ug/L	2/25/2020	15:00
Bis (2-ethylhexyl) phthalate	< 10.4	ug/L	2/25/2020	15:00
Butylbenzylphthalate	< 10.4	ug/L	2/25/2020	15:00
Caprolactam	< 10.4	ug/L	2/25/2020	15:00
Carbazole	< 10.4	ug/L	2/25/2020	15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.4	ug/L	2/25/2020	15:00
Dibenz (a,h) anthracene	< 10.4	ug/L	2/25/2020	15:00
Dibenzofuran	< 10.4	ug/L	2/25/2020	15:00
Diethyl phthalate	< 10.4	ug/L	2/25/2020	15:00
Dimethyl phthalate	< 20.7	ug/L	2/25/2020	15:00
Di-n-butyl phthalate	< 10.4	ug/L	2/25/2020	15:00
Di-n-octylphthalate	< 10.4	ug/L	2/25/2020	15:00
Fluoranthene	< 10.4	ug/L	2/25/2020	15:00
Fluorene	< 10.4	ug/L	2/25/2020	15:00
Hexachlorobenzene	< 10.4	ug/L	2/25/2020	15:00
Hexachlorobutadiene	< 10.4	ug/L	2/25/2020	15:00
Hexachlorocyclopentadiene	< 10.4	ug/L	2/25/2020	15:00
Hexachloroethane	< 10.4	ug/L	2/25/2020	15:00
Indeno (1,2,3-cd) pyrene	< 10.4	ug/L	2/25/2020	15:00
Isophorone	< 10.4	ug/L	2/25/2020	15:00
Naphthalene	< 10.4	ug/L	2/25/2020	15:00
Nitrobenzene	< 10.4	ug/L	2/25/2020	15:00
N-Nitroso-di-n-propylamine	< 10.4	ug/L	2/25/2020	15:00
N-Nitrosodiphenylamine	< 10.4	ug/L	2/25/2020	15:00
Pentachlorophenol	< 20.7	ug/L	2/25/2020	15:00
Phenanthrene	< 10.4	ug/L	2/25/2020	15:00
Phenol	< 10.4	ug/L	2/25/2020	15:00
Pyrene	< 10.4	ug/L	2/25/2020	15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**88.5**	59.6 - 114		2/25/2020	15:00
2-Fluorobiphenyl	**60.0**	36.2 - 99.1		2/25/2020	15:00
2-Fluorophenol	**43.2**	14.9 - 105		2/25/2020	15:00
Nitrobenzene-d5	**69.5**	53.7 - 102		2/25/2020	15:00
Phenol-d5	**29.2**	10 - 106		2/25/2020	15:00
Terphenyl-d14	**72.3**	58.7 - 116		2/25/2020	15:00

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44682.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 13:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 13:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 13:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 13:49
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 13:49
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 13:49
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 13:49
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 13:49
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 13:49
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 13:49
1,4-Dioxane	< 20.0	ug/L		2/24/2020 13:49
2-Butanone	< 10.0	ug/L		2/24/2020 13:49
2-Hexanone	< 5.00	ug/L		2/24/2020 13:49
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 13:49
Acetone	< 10.0	ug/L		2/24/2020 13:49
Benzene	< 1.00	ug/L		2/24/2020 13:49
Bromochloromethane	< 5.00	ug/L		2/24/2020 13:49
Bromodichloromethane	< 2.00	ug/L		2/24/2020 13:49
Bromoform	< 5.00	ug/L		2/24/2020 13:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	13:49
Carbon disulfide	< 2.00	ug/L	2/24/2020	13:49
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	13:49
Chlorobenzene	< 2.00	ug/L	2/24/2020	13:49
Chloroethane	< 2.00	ug/L	2/24/2020	13:49
Chloroform	< 2.00	ug/L	2/24/2020	13:49
Chloromethane	< 2.00	ug/L	2/24/2020	13:49
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	13:49
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	13:49
Cyclohexane	< 10.0	ug/L	2/24/2020	13:49
Dibromochloromethane	< 2.00	ug/L	2/24/2020	13:49
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	13:49
Ethylbenzene	< 2.00	ug/L	2/24/2020	13:49
Freon 113	< 2.00	ug/L	2/24/2020	13:49
Isopropylbenzene	< 2.00	ug/L	2/24/2020	13:49
m,p-Xylene	< 2.00	ug/L	2/24/2020	13:49
Methyl acetate	< 2.00	ug/L	2/24/2020	13:49
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	13:49
Methylcyclohexane	< 2.00	ug/L	2/24/2020	13:49
Methylene chloride	< 5.00	ug/L	2/24/2020	13:49
o-Xylene	< 2.00	ug/L	2/24/2020	13:49
Styrene	< 5.00	ug/L	2/24/2020	13:49
Tetrachloroethene	< 2.00	ug/L	2/24/2020	13:49
Toluene	< 2.00	ug/L	2/24/2020	13:49
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	13:49

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-8
Lab Sample ID: 200801-01 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 13:49
Trichloroethene	< 2.00	ug/L			2/24/2020 13:49
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 13:49
Vinyl chloride	< 2.00	ug/L			2/24/2020 13:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**108**	74.3 - 138		2/24/2020 13:49
4-Bromofluorobenzene	**70.7**	66.3 - 125		2/24/2020 13:49
Pentafluorobenzene	**91.0**	87.4 - 111		2/24/2020 13:49
Toluene-D8	**86.4**	85.8 - 113		2/24/2020 13:49

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68640.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		2/25/2020 15:28
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,2,4-Trichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,2-Dichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,3-Dichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
1,4-Dichlorobenzene	< 10.2	ug/L		2/25/2020 15:28
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		2/25/2020 15:28
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		2/25/2020 15:28
2,4,5-Trichlorophenol	< 20.5	ug/L		2/25/2020 15:28
2,4,6-Trichlorophenol	< 10.2	ug/L		2/25/2020 15:28
2,4-Dichlorophenol	< 10.2	ug/L		2/25/2020 15:28
2,4-Dimethylphenol	< 20.5	ug/L		2/25/2020 15:28
2,4-Dinitrophenol	< 20.5	ug/L		2/25/2020 15:28
2,4-Dinitrotoluene	< 10.2	ug/L		2/25/2020 15:28
2,6-Dinitrotoluene	< 10.2	ug/L		2/25/2020 15:28
2-Chloronaphthalene	< 10.2	ug/L		2/25/2020 15:28
2-Chlorophenol	< 10.2	ug/L		2/25/2020 15:28
2-Methylnapthalene	< 10.2	ug/L		2/25/2020 15:28
2-Methylphenol	< 10.2	ug/L		2/25/2020 15:28
2-Nitroaniline	< 20.5	ug/L		2/25/2020 15:28
2-Nitrophenol	< 10.2	ug/L		2/25/2020 15:28
3&4-Methylphenol	< 10.2	ug/L		2/25/2020 15:28
3,3'-Dichlorobenzidine	< 10.2	ug/L		2/25/2020 15:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-2		
Lab Sample ID:	200801-02	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.5	ug/L	2/25/2020	15:28
4,6-Dinitro-2-methylphenol	< 20.5	ug/L	2/25/2020	15:28
4-Bromophenyl phenyl ether	< 10.2	ug/L	2/25/2020	15:28
4-Chloro-3-methylphenol	< 10.2	ug/L	2/25/2020	15:28
4-Chloroaniline	< 10.2	ug/L	2/25/2020	15:28
4-Chlorophenyl phenyl ether	< 10.2	ug/L	2/25/2020	15:28
4-Nitroaniline	< 20.5	ug/L	2/25/2020	15:28
4-Nitrophenol	< 20.5	ug/L	2/25/2020	15:28
Acenaphthene	< 10.2	ug/L	2/25/2020	15:28
Acenaphthylene	< 10.2	ug/L	2/25/2020	15:28
Acetophenone	< 10.2	ug/L	2/25/2020	15:28
Anthracene	< 10.2	ug/L	2/25/2020	15:28
Atrazine	< 10.2	ug/L	2/25/2020	15:28
Benzaldehyde	< 10.2	ug/L	2/25/2020	15:28
Benzo (a) anthracene	< 10.2	ug/L	2/25/2020	15:28
Benzo (a) pyrene	< 10.2	ug/L	2/25/2020	15:28
Benzo (b) fluoranthene	< 10.2	ug/L	2/25/2020	15:28
Benzo (g,h,i) perylene	< 10.2	ug/L	2/25/2020	15:28
Benzo (k) fluoranthene	< 10.2	ug/L	2/25/2020	15:28
Bis (2-chloroethoxy) methane	< 10.2	ug/L	2/25/2020	15:28
Bis (2-chloroethyl) ether	< 10.2	ug/L	2/25/2020	15:28
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	2/25/2020	15:28
Butylbenzylphthalate	< 10.2	ug/L	2/25/2020	15:28
Caprolactam	< 10.2	ug/L	2/25/2020	15:28
Carbazole	< 10.2	ug/L	2/25/2020	15:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.2	ug/L	2/25/2020	15:28
Dibenz (a,h) anthracene	< 10.2	ug/L	2/25/2020	15:28
Dibenzofuran	< 10.2	ug/L	2/25/2020	15:28
Diethyl phthalate	< 10.2	ug/L	2/25/2020	15:28
Dimethyl phthalate	< 20.5	ug/L	2/25/2020	15:28
Di-n-butyl phthalate	< 10.2	ug/L	2/25/2020	15:28
Di-n-octylphthalate	< 10.2	ug/L	2/25/2020	15:28
Fluoranthene	< 10.2	ug/L	2/25/2020	15:28
Fluorene	< 10.2	ug/L	2/25/2020	15:28
Hexachlorobenzene	< 10.2	ug/L	2/25/2020	15:28
Hexachlorobutadiene	< 10.2	ug/L	2/25/2020	15:28
Hexachlorocyclopentadiene	< 10.2	ug/L	2/25/2020	15:28
Hexachloroethane	< 10.2	ug/L	2/25/2020	15:28
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	2/25/2020	15:28
Isophorone	< 10.2	ug/L	2/25/2020	15:28
Naphthalene	< 10.2	ug/L	2/25/2020	15:28
Nitrobenzene	< 10.2	ug/L	2/25/2020	15:28
N-Nitroso-di-n-propylamine	< 10.2	ug/L	2/25/2020	15:28
N-Nitrosodiphenylamine	< 10.2	ug/L	2/25/2020	15:28
Pentachlorophenol	< 20.5	ug/L	2/25/2020	15:28
Phenanthrene	< 10.2	ug/L	2/25/2020	15:28
Phenol	< 10.2	ug/L	2/25/2020	15:28
Pyrene	< 10.2	ug/L	2/25/2020	15:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**86.0**	59.6 - 114		2/25/2020	15:28
2-Fluorobiphenyl	**61.2**	36.2 - 99.1		2/25/2020	15:28
2-Fluorophenol	**43.7**	14.9 - 105		2/25/2020	15:28
Nitrobenzene-d5	**73.0**	53.7 - 102		2/25/2020	15:28
Phenol-d5	**28.8**	10 - 106		2/25/2020	15:28
Terphenyl-d14	**70.7**	58.7 - 116		2/25/2020	15:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44683.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 14:11
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:11
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:11
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 14:11
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 14:11
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:11
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 14:11
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 14:11
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:11
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:11
1,4-Dioxane	< 20.0	ug/L		2/24/2020 14:11
2-Butanone	< 10.0	ug/L		2/24/2020 14:11
2-Hexanone	< 5.00	ug/L		2/24/2020 14:11
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 14:11
Acetone	< 10.0	ug/L		2/24/2020 14:11
Benzene	< 1.00	ug/L		2/24/2020 14:11
Bromochloromethane	< 5.00	ug/L		2/24/2020 14:11
Bromodichloromethane	< 2.00	ug/L		2/24/2020 14:11
Bromoform	< 5.00	ug/L		2/24/2020 14:11

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	14:11
Carbon disulfide	< 2.00	ug/L	2/24/2020	14:11
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	14:11
Chlorobenzene	< 2.00	ug/L	2/24/2020	14:11
Chloroethane	< 2.00	ug/L	2/24/2020	14:11
Chloroform	< 2.00	ug/L	2/24/2020	14:11
Chloromethane	< 2.00	ug/L	2/24/2020	14:11
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:11
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:11
Cyclohexane	< 10.0	ug/L	2/24/2020	14:11
Dibromochloromethane	< 2.00	ug/L	2/24/2020	14:11
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	14:11
Ethylbenzene	< 2.00	ug/L	2/24/2020	14:11
Freon 113	< 2.00	ug/L	2/24/2020	14:11
Isopropylbenzene	< 2.00	ug/L	2/24/2020	14:11
m,p-Xylene	< 2.00	ug/L	2/24/2020	14:11
Methyl acetate	< 2.00	ug/L	2/24/2020	14:11
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	14:11
Methylcyclohexane	< 2.00	ug/L	2/24/2020	14:11
Methylene chloride	< 5.00	ug/L	2/24/2020	14:11
o-Xylene	< 2.00	ug/L	2/24/2020	14:11
Styrene	< 5.00	ug/L	2/24/2020	14:11
Tetrachloroethene	< 2.00	ug/L	2/24/2020	14:11
Toluene	< 2.00	ug/L	2/24/2020	14:11
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:11

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-2
Lab Sample ID: 200801-02 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L		2/24/2020	14:11
Trichloroethene	< 2.00	ug/L		2/24/2020	14:11
Trichlorofluoromethane	< 2.00	ug/L		2/24/2020	14:11
Vinyl chloride	< 2.00	ug/L		2/24/2020	14:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	74.3 - 138		2/24/2020	14:11
4-Bromofluorobenzene	**70.3**	66.3 - 125		2/24/2020	14:11
Pentafluorobenzene	**90.7**	87.4 - 111		2/24/2020	14:11
Toluene-D8	**87.1**	85.8 - 113		2/24/2020	14:11

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68641.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-11		
Lab Sample ID:	200801-03	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 15:57
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 15:57
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 15:57
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 15:57
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 15:57
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 15:57
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 15:57
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 15:57
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 15:57
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 15:57
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 15:57
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 15:57
2-Chlorophenol	< 10.0	ug/L		2/25/2020 15:57
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 15:57
2-Methylphenol	< 10.0	ug/L		2/25/2020 15:57
2-Nitroaniline	< 20.0	ug/L		2/25/2020 15:57
2-Nitrophenol	< 10.0	ug/L		2/25/2020 15:57
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 15:57
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 15:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-11		
Lab Sample ID:	200801-03	**Date Sampled:**	2/20/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	15:57
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	15:57
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	15:57
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	15:57
4-Chloroaniline	< 10.0	ug/L	2/25/2020	15:57
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	15:57
4-Nitroaniline	< 20.0	ug/L	2/25/2020	15:57
4-Nitrophenol	< 20.0	ug/L	2/25/2020	15:57
Acenaphthene	< 10.0	ug/L	2/25/2020	15:57
Acenaphthylene	< 10.0	ug/L	2/25/2020	15:57
Acetophenone	< 10.0	ug/L	2/25/2020	15:57
Anthracene	< 10.0	ug/L	2/25/2020	15:57
Atrazine	< 10.0	ug/L	2/25/2020	15:57
Benzaldehyde	< 10.0	ug/L	2/25/2020	15:57
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	15:57
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	15:57
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	15:57
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	15:57
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	15:57
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	15:57
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	15:57
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	15:57
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	15:57
Caprolactam	< 10.0	ug/L	2/25/2020	15:57
Carbazole	< 10.0	ug/L	2/25/2020	15:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	15:57
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	15:57
Dibenzofuran	< 10.0	ug/L	2/25/2020	15:57
Diethyl phthalate	< 10.0	ug/L	2/25/2020	15:57
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	15:57
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	15:57
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	15:57
Fluoranthene	< 10.0	ug/L	2/25/2020	15:57
Fluorene	< 10.0	ug/L	2/25/2020	15:57
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	15:57
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	15:57
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	15:57
Hexachloroethane	< 10.0	ug/L	2/25/2020	15:57
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	15:57
Isophorone	< 10.0	ug/L	2/25/2020	15:57
Naphthalene	< 10.0	ug/L	2/25/2020	15:57
Nitrobenzene	< 10.0	ug/L	2/25/2020	15:57
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	15:57
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	15:57
Pentachlorophenol	< 20.0	ug/L	2/25/2020	15:57
Phenanthrene	< 10.0	ug/L	2/25/2020	15:57
Phenol	< 10.0	ug/L	2/25/2020	15:57
Pyrene	< 10.0	ug/L	2/25/2020	15:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.1**	59.6 - 114		2/25/2020	15:57
2-Fluorobiphenyl	**60.4**	36.2 - 99.1		2/25/2020	15:57
2-Fluorophenol	**42.2**	14.9 - 105		2/25/2020	15:57
Nitrobenzene-d5	**70.6**	53.7 - 102		2/25/2020	15:57
Phenol-d5	**29.1**	10 - 106		2/25/2020	15:57
Terphenyl-d14	**71.7**	58.7 - 116		2/25/2020	15:57

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44684.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 14:34
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:34
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:34
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 14:34
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 14:34
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:34
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 14:34
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 14:34
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:34
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:34
1,4-Dioxane	< 20.0	ug/L		2/24/2020 14:34
2-Butanone	< 10.0	ug/L		2/24/2020 14:34
2-Hexanone	< 5.00	ug/L		2/24/2020 14:34
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 14:34
Acetone	< 10.0	ug/L		2/24/2020 14:34
Benzene	**0.840**	ug/L	J	2/24/2020 14:34
Bromochloromethane	< 5.00	ug/L		2/24/2020 14:34
Bromodichloromethane	< 2.00	ug/L		2/24/2020 14:34
Bromoform	< 5.00	ug/L		2/24/2020 14:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	14:34
Carbon disulfide	< 2.00	ug/L	2/24/2020	14:34
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	14:34
Chlorobenzene	< 2.00	ug/L	2/24/2020	14:34
Chloroethane	< 2.00	ug/L	2/24/2020	14:34
Chloroform	< 2.00	ug/L	2/24/2020	14:34
Chloromethane	< 2.00	ug/L	2/24/2020	14:34
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:34
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:34
Cyclohexane	< 10.0	ug/L	2/24/2020	14:34
Dibromochloromethane	< 2.00	ug/L	2/24/2020	14:34
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	14:34
Ethylbenzene	**5.41**	ug/L	2/24/2020	14:34
Freon 113	< 2.00	ug/L	2/24/2020	14:34
Isopropylbenzene	< 2.00	ug/L	2/24/2020	14:34
m,p-Xylene	**2.75**	ug/L	2/24/2020	14:34
Methyl acetate	< 2.00	ug/L	2/24/2020	14:34
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	14:34
Methylcyclohexane	< 2.00	ug/L	2/24/2020	14:34
Methylene chloride	< 5.00	ug/L	2/24/2020	14:34
o-Xylene	< 2.00	ug/L	2/24/2020	14:34
Styrene	< 5.00	ug/L	2/24/2020	14:34
Tetrachloroethene	< 2.00	ug/L	2/24/2020	14:34
Toluene	< 2.00	ug/L	2/24/2020	14:34
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:34

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-11
Lab Sample ID: 200801-03 **Date Sampled:** 2/20/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:34
Trichloroethene	< 2.00	ug/L	2/24/2020	14:34
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	14:34
Vinyl chloride	< 2.00	ug/L	2/24/2020	14:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	74.3 - 138		2/24/2020	14:34
4-Bromofluorobenzene	**84.8**	66.3 - 125		2/24/2020	14:34
Pentafluorobenzene	**89.5**	87.4 - 111		2/24/2020	14:34
Toluene-D8	**89.8**	85.8 - 113		2/24/2020	14:34

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68642.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		2/25/2020 16:25
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,2,4-Trichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,2-Dichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,3-Dichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
1,4-Dichlorobenzene	< 10.3	ug/L		2/25/2020 16:25
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		2/25/2020 16:25
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		2/25/2020 16:25
2,4,5-Trichlorophenol	< 20.6	ug/L		2/25/2020 16:25
2,4,6-Trichlorophenol	< 10.3	ug/L		2/25/2020 16:25
2,4-Dichlorophenol	< 10.3	ug/L		2/25/2020 16:25
2,4-Dimethylphenol	< 20.6	ug/L		2/25/2020 16:25
2,4-Dinitrophenol	< 20.6	ug/L		2/25/2020 16:25
2,4-Dinitrotoluene	< 10.3	ug/L		2/25/2020 16:25
2,6-Dinitrotoluene	< 10.3	ug/L		2/25/2020 16:25
2-Chloronaphthalene	< 10.3	ug/L		2/25/2020 16:25
2-Chlorophenol	< 10.3	ug/L		2/25/2020 16:25
2-Methylnapthalene	< 10.3	ug/L		2/25/2020 16:25
2-Methylphenol	< 10.3	ug/L		2/25/2020 16:25
2-Nitroaniline	< 20.6	ug/L		2/25/2020 16:25
2-Nitrophenol	< 10.3	ug/L		2/25/2020 16:25
3&4-Methylphenol	< 10.3	ug/L		2/25/2020 16:25
3,3'-Dichlorobenzidine	< 10.3	ug/L		2/25/2020 16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.6	ug/L	2/25/2020	16:25
4,6-Dinitro-2-methylphenol	< 20.6	ug/L	2/25/2020	16:25
4-Bromophenyl phenyl ether	< 10.3	ug/L	2/25/2020	16:25
4-Chloro-3-methylphenol	< 10.3	ug/L	2/25/2020	16:25
4-Chloroaniline	< 10.3	ug/L	2/25/2020	16:25
4-Chlorophenyl phenyl ether	< 10.3	ug/L	2/25/2020	16:25
4-Nitroaniline	< 20.6	ug/L	2/25/2020	16:25
4-Nitrophenol	< 20.6	ug/L	2/25/2020	16:25
Acenaphthene	< 10.3	ug/L	2/25/2020	16:25
Acenaphthylene	< 10.3	ug/L	2/25/2020	16:25
Acetophenone	< 10.3	ug/L	2/25/2020	16:25
Anthracene	< 10.3	ug/L	2/25/2020	16:25
Atrazine	< 10.3	ug/L	2/25/2020	16:25
Benzaldehyde	< 10.3	ug/L	2/25/2020	16:25
Benzo (a) anthracene	< 10.3	ug/L	2/25/2020	16:25
Benzo (a) pyrene	< 10.3	ug/L	2/25/2020	16:25
Benzo (b) fluoranthene	< 10.3	ug/L	2/25/2020	16:25
Benzo (g,h,i) perylene	< 10.3	ug/L	2/25/2020	16:25
Benzo (k) fluoranthene	< 10.3	ug/L	2/25/2020	16:25
Bis (2-chloroethoxy) methane	< 10.3	ug/L	2/25/2020	16:25
Bis (2-chloroethyl) ether	< 10.3	ug/L	2/25/2020	16:25
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	2/25/2020	16:25
Butylbenzylphthalate	< 10.3	ug/L	2/25/2020	16:25
Caprolactam	< 10.3	ug/L	2/25/2020	16:25
Carbazole	< 10.3	ug/L	2/25/2020	16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Chrysene	< 10.3	ug/L	2/25/2020	16:25
Dibenz (a,h) anthracene	< 10.3	ug/L	2/25/2020	16:25
Dibenzofuran	< 10.3	ug/L	2/25/2020	16:25
Diethyl phthalate	< 10.3	ug/L	2/25/2020	16:25
Dimethyl phthalate	< 20.6	ug/L	2/25/2020	16:25
Di-n-butyl phthalate	< 10.3	ug/L	2/25/2020	16:25
Di-n-octylphthalate	< 10.3	ug/L	2/25/2020	16:25
Fluoranthene	< 10.3	ug/L	2/25/2020	16:25
Fluorene	< 10.3	ug/L	2/25/2020	16:25
Hexachlorobenzene	< 10.3	ug/L	2/25/2020	16:25
Hexachlorobutadiene	< 10.3	ug/L	2/25/2020	16:25
Hexachlorocyclopentadiene	< 10.3	ug/L	2/25/2020	16:25
Hexachloroethane	< 10.3	ug/L	2/25/2020	16:25
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	2/25/2020	16:25
Isophorone	< 10.3	ug/L	2/25/2020	16:25
Naphthalene	< 10.3	ug/L	2/25/2020	16:25
Nitrobenzene	< 10.3	ug/L	2/25/2020	16:25
N-Nitroso-di-n-propylamine	< 10.3	ug/L	2/25/2020	16:25
N-Nitrosodiphenylamine	< 10.3	ug/L	2/25/2020	16:25
Pentachlorophenol	< 20.6	ug/L	2/25/2020	16:25
Phenanthrene	< 10.3	ug/L	2/25/2020	16:25
Phenol	< 10.3	ug/L	2/25/2020	16:25
Pyrene	< 10.3	ug/L	2/25/2020	16:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-15R
Lab Sample ID: 200801-04 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.9**	59.6 - 114		2/25/2020	16:25
2-Fluorobiphenyl	**60.8**	36.2 - 99.1		2/25/2020	16:25
2-Fluorophenol	**40.7**	14.9 - 105		2/25/2020	16:25
Nitrobenzene-d5	**71.2**	53.7 - 102		2/25/2020	16:25
Phenol-d5	**27.4**	10 - 106		2/25/2020	16:25
Terphenyl-d14	**72.8**	58.7 - 116		2/25/2020	16:25

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44685.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-15R		
Lab Sample ID:	200801-04	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 14:57
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:57
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 14:57
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 14:57
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 14:57
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:57
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 14:57
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 14:57
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:57
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 14:57
1,4-Dioxane	< 20.0	ug/L		2/24/2020 14:57
2-Butanone	< 10.0	ug/L		2/24/2020 14:57
2-Hexanone	< 5.00	ug/L		2/24/2020 14:57
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 14:57
Acetone	< 10.0	ug/L		2/24/2020 14:57
Benzene	< 1.00	ug/L		2/24/2020 14:57
Bromochloromethane	< 5.00	ug/L		2/24/2020 14:57
Bromodichloromethane	< 2.00	ug/L		2/24/2020 14:57
Bromoform	< 5.00	ug/L		2/24/2020 14:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-15R
Lab Sample ID: 200801-04 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	14:57
Carbon disulfide	< 2.00	ug/L	2/24/2020	14:57
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	14:57
Chlorobenzene	< 2.00	ug/L	2/24/2020	14:57
Chloroethane	< 2.00	ug/L	2/24/2020	14:57
Chloroform	< 2.00	ug/L	2/24/2020	14:57
Chloromethane	< 2.00	ug/L	2/24/2020	14:57
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:57
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	14:57
Cyclohexane	< 10.0	ug/L	2/24/2020	14:57
Dibromochloromethane	< 2.00	ug/L	2/24/2020	14:57
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	14:57
Ethylbenzene	**3.30**	ug/L	2/24/2020	14:57
Freon 113	< 2.00	ug/L	2/24/2020	14:57
Isopropylbenzene	< 2.00	ug/L	2/24/2020	14:57
m,p-Xylene	< 2.00	ug/L	2/24/2020	14:57
Methyl acetate	< 2.00	ug/L	2/24/2020	14:57
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	14:57
Methylcyclohexane	< 2.00	ug/L	2/24/2020	14:57
Methylene chloride	< 5.00	ug/L	2/24/2020	14:57
o-Xylene	< 2.00	ug/L	2/24/2020	14:57
Styrene	< 5.00	ug/L	2/24/2020	14:57
Tetrachloroethene	< 2.00	ug/L	2/24/2020	14:57
Toluene	< 2.00	ug/L	2/24/2020	14:57
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	14:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-15R
Lab Sample ID: 200801-04 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 14:57
Trichloroethene	< 2.00	ug/L			2/24/2020 14:57
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 14:57
Vinyl chloride	< 2.00	ug/L			2/24/2020 14:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**101**	74.3 - 138		2/24/2020 14:57
4-Bromofluorobenzene	**79.9**	66.3 - 125		2/24/2020 14:57
Pentafluorobenzene	**87.4**	87.4 - 111		2/24/2020 14:57
Toluene-D8	**93.3**	85.8 - 113		2/24/2020 14:57

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68643.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.4	ug/L		2/25/2020 17:50
1,2,4,5-Tetrachlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,2,4-Trichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,2-Dichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,3-Dichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
1,4-Dichlorobenzene	< 10.4	ug/L		2/25/2020 17:50
2,2-Oxybis (1-chloropropane)	< 10.4	ug/L		2/25/2020 17:50
2,3,4,6-Tetrachlorophenol	< 10.4	ug/L		2/25/2020 17:50
2,4,5-Trichlorophenol	< 20.8	ug/L		2/25/2020 17:50
2,4,6-Trichlorophenol	< 10.4	ug/L		2/25/2020 17:50
2,4-Dichlorophenol	< 10.4	ug/L		2/25/2020 17:50
2,4-Dimethylphenol	< 20.8	ug/L		2/25/2020 17:50
2,4-Dinitrophenol	< 20.8	ug/L		2/25/2020 17:50
2,4-Dinitrotoluene	< 10.4	ug/L		2/25/2020 17:50
2,6-Dinitrotoluene	< 10.4	ug/L		2/25/2020 17:50
2-Chloronaphthalene	< 10.4	ug/L		2/25/2020 17:50
2-Chlorophenol	< 10.4	ug/L		2/25/2020 17:50
2-Methylnapthalene	< 10.4	ug/L		2/25/2020 17:50
2-Methylphenol	< 10.4	ug/L		2/25/2020 17:50
2-Nitroaniline	< 20.8	ug/L		2/25/2020 17:50
2-Nitrophenol	< 10.4	ug/L		2/25/2020 17:50
3&4-Methylphenol	< 10.4	ug/L		2/25/2020 17:50
3,3'-Dichlorobenzidine	< 10.4	ug/L		2/25/2020 17:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	200801-05	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.8	ug/L	2/25/2020	17:50
4,6-Dinitro-2-methylphenol	< 20.8	ug/L	2/25/2020	17:50
4-Bromophenyl phenyl ether	< 10.4	ug/L	2/25/2020	17:50
4-Chloro-3-methylphenol	< 10.4	ug/L	2/25/2020	17:50
4-Chloroaniline	< 10.4	ug/L	2/25/2020	17:50
4-Chlorophenyl phenyl ether	< 10.4	ug/L	2/25/2020	17:50
4-Nitroaniline	< 20.8	ug/L	2/25/2020	17:50
4-Nitrophenol	< 20.8	ug/L	2/25/2020	17:50
Acenaphthene	< 10.4	ug/L	2/25/2020	17:50
Acenaphthylene	< 10.4	ug/L	2/25/2020	17:50
Acetophenone	< 10.4	ug/L	2/25/2020	17:50
Anthracene	< 10.4	ug/L	2/25/2020	17:50
Atrazine	< 10.4	ug/L	2/25/2020	17:50
Benzaldehyde	< 10.4	ug/L	2/25/2020	17:50
Benzo (a) anthracene	< 10.4	ug/L	2/25/2020	17:50
Benzo (a) pyrene	< 10.4	ug/L	2/25/2020	17:50
Benzo (b) fluoranthene	< 10.4	ug/L	2/25/2020	17:50
Benzo (g,h,i) perylene	< 10.4	ug/L	2/25/2020	17:50
Benzo (k) fluoranthene	< 10.4	ug/L	2/25/2020	17:50
Bis (2-chloroethoxy) methane	< 10.4	ug/L	2/25/2020	17:50
Bis (2-chloroethyl) ether	< 10.4	ug/L	2/25/2020	17:50
Bis (2-ethylhexyl) phthalate	< 10.4	ug/L	2/25/2020	17:50
Butylbenzylphthalate	< 10.4	ug/L	2/25/2020	17:50
Caprolactam	< 10.4	ug/L	2/25/2020	17:50
Carbazole	< 10.4	ug/L	2/25/2020	17:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	200801-05	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Chrysene	< 10.4	ug/L	2/25/2020	17:50
Dibenz (a,h) anthracene	< 10.4	ug/L	2/25/2020	17:50
Dibenzofuran	< 10.4	ug/L	2/25/2020	17:50
Diethyl phthalate	< 10.4	ug/L	2/25/2020	17:50
Dimethyl phthalate	< 20.8	ug/L	2/25/2020	17:50
Di-n-butyl phthalate	< 10.4	ug/L	2/25/2020	17:50
Di-n-octylphthalate	< 10.4	ug/L	2/25/2020	17:50
Fluoranthene	< 10.4	ug/L	2/25/2020	17:50
Fluorene	< 10.4	ug/L	2/25/2020	17:50
Hexachlorobenzene	< 10.4	ug/L	2/25/2020	17:50
Hexachlorobutadiene	< 10.4	ug/L	2/25/2020	17:50
Hexachlorocyclopentadiene	< 10.4	ug/L	2/25/2020	17:50
Hexachloroethane	< 10.4	ug/L	2/25/2020	17:50
Indeno (1,2,3-cd) pyrene	< 10.4	ug/L	2/25/2020	17:50
Isophorone	< 10.4	ug/L	2/25/2020	17:50
Naphthalene	< 10.4	ug/L	2/25/2020	17:50
Nitrobenzene	< 10.4	ug/L	2/25/2020	17:50
N-Nitroso-di-n-propylamine	< 10.4	ug/L	2/25/2020	17:50
N-Nitrosodiphenylamine	< 10.4	ug/L	2/25/2020	17:50
Pentachlorophenol	< 20.8	ug/L	2/25/2020	17:50
Phenanthrene	< 10.4	ug/L	2/25/2020	17:50
Phenol	< 10.4	ug/L	2/25/2020	17:50
Pyrene	< 10.4	ug/L	2/25/2020	17:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**92.0**	59.6 - 114		2/25/2020	17:50
2-Fluorobiphenyl	**63.3**	36.2 - 99.1		2/25/2020	17:50
2-Fluorophenol	**42.8**	14.9 - 105		2/25/2020	17:50
Nitrobenzene-d5	**73.2**	53.7 - 102		2/25/2020	17:50
Phenol-d5	**28.3**	10 - 106		2/25/2020	17:50
Terphenyl-d14	**73.2**	58.7 - 116		2/25/2020	17:50

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44688.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 15:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 15:20
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 15:20
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:20
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 15:20
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 15:20
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:20
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:20
1,4-Dioxane	< 20.0	ug/L		2/24/2020 15:20
2-Butanone	< 10.0	ug/L		2/24/2020 15:20
2-Hexanone	< 5.00	ug/L		2/24/2020 15:20
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 15:20
Acetone	< 10.0	ug/L		2/24/2020 15:20
Benzene	< 1.00	ug/L		2/24/2020 15:20
Bromochloromethane	< 5.00	ug/L		2/24/2020 15:20
Bromodichloromethane	< 2.00	ug/L		2/24/2020 15:20
Bromoform	< 5.00	ug/L		2/24/2020 15:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	200801-05	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	15:20
Carbon disulfide	< 2.00	ug/L	2/24/2020	15:20
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	15:20
Chlorobenzene	< 2.00	ug/L	2/24/2020	15:20
Chloroethane	< 2.00	ug/L	2/24/2020	15:20
Chloroform	< 2.00	ug/L	2/24/2020	15:20
Chloromethane	< 2.00	ug/L	2/24/2020	15:20
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:20
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:20
Cyclohexane	< 10.0	ug/L	2/24/2020	15:20
Dibromochloromethane	< 2.00	ug/L	2/24/2020	15:20
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	15:20
Ethylbenzene	**3.50**	ug/L	2/24/2020	15:20
Freon 113	< 2.00	ug/L	2/24/2020	15:20
Isopropylbenzene	< 2.00	ug/L	2/24/2020	15:20
m,p-Xylene	< 2.00	ug/L	2/24/2020	15:20
Methyl acetate	< 2.00	ug/L	2/24/2020	15:20
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	15:20
Methylcyclohexane	< 2.00	ug/L	2/24/2020	15:20
Methylene chloride	< 5.00	ug/L	2/24/2020	15:20
o-Xylene	< 2.00	ug/L	2/24/2020	15:20
Styrene	< 5.00	ug/L	2/24/2020	15:20
Tetrachloroethene	< 2.00	ug/L	2/24/2020	15:20
Toluene	< 2.00	ug/L	2/24/2020	15:20
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:20

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Blind Duplicate
Lab Sample ID: 200801-05 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:20
Trichloroethene	< 2.00	ug/L	2/24/2020	15:20
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	15:20
Vinyl chloride	< 2.00	ug/L	2/24/2020	15:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.6**	74.3 - 138		2/24/2020	15:20
4-Bromofluorobenzene	**80.0**	66.3 - 125		2/24/2020	15:20
Pentafluorobenzene	**90.1**	87.4 - 111		2/24/2020	15:20
Toluene-D8	**94.6**	85.8 - 113		2/24/2020	15:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68644.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-9R		
Lab Sample ID:	200801-06	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		2/25/2020 18:19
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,2,4-Trichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,2-Dichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,3-Dichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
1,4-Dichlorobenzene	< 10.2	ug/L		2/25/2020 18:19
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		2/25/2020 18:19
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		2/25/2020 18:19
2,4,5-Trichlorophenol	< 20.3	ug/L		2/25/2020 18:19
2,4,6-Trichlorophenol	< 10.2	ug/L		2/25/2020 18:19
2,4-Dichlorophenol	< 10.2	ug/L		2/25/2020 18:19
2,4-Dimethylphenol	< 20.3	ug/L		2/25/2020 18:19
2,4-Dinitrophenol	< 20.3	ug/L		2/25/2020 18:19
2,4-Dinitrotoluene	< 10.2	ug/L		2/25/2020 18:19
2,6-Dinitrotoluene	< 10.2	ug/L		2/25/2020 18:19
2-Chloronaphthalene	< 10.2	ug/L		2/25/2020 18:19
2-Chlorophenol	< 10.2	ug/L		2/25/2020 18:19
2-Methylnapthalene	< 10.2	ug/L		2/25/2020 18:19
2-Methylphenol	< 10.2	ug/L		2/25/2020 18:19
2-Nitroaniline	< 20.3	ug/L		2/25/2020 18:19
2-Nitrophenol	< 10.2	ug/L		2/25/2020 18:19
3&4-Methylphenol	< 10.2	ug/L		2/25/2020 18:19
3,3'-Dichlorobenzidine	< 10.2	ug/L		2/25/2020 18:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-9R		
Lab Sample ID:	200801-06	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.3	ug/L	2/25/2020	18:19
4,6-Dinitro-2-methylphenol	< 20.3	ug/L	2/25/2020	18:19
4-Bromophenyl phenyl ether	< 10.2	ug/L	2/25/2020	18:19
4-Chloro-3-methylphenol	< 10.2	ug/L	2/25/2020	18:19
4-Chloroaniline	< 10.2	ug/L	2/25/2020	18:19
4-Chlorophenyl phenyl ether	< 10.2	ug/L	2/25/2020	18:19
4-Nitroaniline	< 20.3	ug/L	2/25/2020	18:19
4-Nitrophenol	< 20.3	ug/L	2/25/2020	18:19
Acenaphthene	< 10.2	ug/L	2/25/2020	18:19
Acenaphthylene	< 10.2	ug/L	2/25/2020	18:19
Acetophenone	< 10.2	ug/L	2/25/2020	18:19
Anthracene	< 10.2	ug/L	2/25/2020	18:19
Atrazine	< 10.2	ug/L	2/25/2020	18:19
Benzaldehyde	< 10.2	ug/L	2/25/2020	18:19
Benzo (a) anthracene	< 10.2	ug/L	2/25/2020	18:19
Benzo (a) pyrene	< 10.2	ug/L	2/25/2020	18:19
Benzo (b) fluoranthene	< 10.2	ug/L	2/25/2020	18:19
Benzo (g,h,i) perylene	< 10.2	ug/L	2/25/2020	18:19
Benzo (k) fluoranthene	< 10.2	ug/L	2/25/2020	18:19
Bis (2-chloroethoxy) methane	< 10.2	ug/L	2/25/2020	18:19
Bis (2-chloroethyl) ether	< 10.2	ug/L	2/25/2020	18:19
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	2/25/2020	18:19
Butylbenzylphthalate	< 10.2	ug/L	2/25/2020	18:19
Caprolactam	< 10.2	ug/L	2/25/2020	18:19
Carbazole	< 10.2	ug/L	2/25/2020	18:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.2	ug/L	2/25/2020	18:19
Dibenz (a,h) anthracene	< 10.2	ug/L	2/25/2020	18:19
Dibenzofuran	< 10.2	ug/L	2/25/2020	18:19
Diethyl phthalate	< 10.2	ug/L	2/25/2020	18:19
Dimethyl phthalate	< 20.3	ug/L	2/25/2020	18:19
Di-n-butyl phthalate	< 10.2	ug/L	2/25/2020	18:19
Di-n-octylphthalate	< 10.2	ug/L	2/25/2020	18:19
Fluoranthene	< 10.2	ug/L	2/25/2020	18:19
Fluorene	< 10.2	ug/L	2/25/2020	18:19
Hexachlorobenzene	< 10.2	ug/L	2/25/2020	18:19
Hexachlorobutadiene	< 10.2	ug/L	2/25/2020	18:19
Hexachlorocyclopentadiene	< 10.2	ug/L	2/25/2020	18:19
Hexachloroethane	< 10.2	ug/L	2/25/2020	18:19
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	2/25/2020	18:19
Isophorone	< 10.2	ug/L	2/25/2020	18:19
Naphthalene	< 10.2	ug/L	2/25/2020	18:19
Nitrobenzene	< 10.2	ug/L	2/25/2020	18:19
N-Nitroso-di-n-propylamine	< 10.2	ug/L	2/25/2020	18:19
N-Nitrosodiphenylamine	< 10.2	ug/L	2/25/2020	18:19
Pentachlorophenol	< 20.3	ug/L	2/25/2020	18:19
Phenanthrene	< 10.2	ug/L	2/25/2020	18:19
Phenol	< 10.2	ug/L	2/25/2020	18:19
Pyrene	< 10.2	ug/L	2/25/2020	18:19

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.5**	59.6 - 114		2/25/2020	18:19
2-Fluorobiphenyl	**66.8**	36.2 - 99.1		2/25/2020	18:19
2-Fluorophenol	**44.3**	14.9 - 105		2/25/2020	18:19
Nitrobenzene-d5	**75.8**	53.7 - 102		2/25/2020	18:19
Phenol-d5	**28.4**	10 - 106		2/25/2020	18:19
Terphenyl-d14	**72.8**	58.7 - 116		2/25/2020	18:19

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44689.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 15:42
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:42
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 15:42
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 15:42
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 15:42
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:42
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 15:42
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 15:42
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:42
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 15:42
1,4-Dioxane	< 20.0	ug/L		2/24/2020 15:42
2-Butanone	< 10.0	ug/L		2/24/2020 15:42
2-Hexanone	< 5.00	ug/L		2/24/2020 15:42
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 15:42
Acetone	< 10.0	ug/L		2/24/2020 15:42
Benzene	< 1.00	ug/L		2/24/2020 15:42
Bromochloromethane	< 5.00	ug/L		2/24/2020 15:42
Bromodichloromethane	< 2.00	ug/L		2/24/2020 15:42
Bromoform	< 5.00	ug/L		2/24/2020 15:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-9R		
Lab Sample ID:	200801-06	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	15:42
Carbon disulfide	< 2.00	ug/L	2/24/2020	15:42
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	15:42
Chlorobenzene	< 2.00	ug/L	2/24/2020	15:42
Chloroethane	< 2.00	ug/L	2/24/2020	15:42
Chloroform	< 2.00	ug/L	2/24/2020	15:42
Chloromethane	< 2.00	ug/L	2/24/2020	15:42
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:42
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:42
Cyclohexane	< 10.0	ug/L	2/24/2020	15:42
Dibromochloromethane	< 2.00	ug/L	2/24/2020	15:42
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	15:42
Ethylbenzene	< 2.00	ug/L	2/24/2020	15:42
Freon 113	< 2.00	ug/L	2/24/2020	15:42
Isopropylbenzene	< 2.00	ug/L	2/24/2020	15:42
m,p-Xylene	< 2.00	ug/L	2/24/2020	15:42
Methyl acetate	< 2.00	ug/L	2/24/2020	15:42
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	15:42
Methylcyclohexane	< 2.00	ug/L	2/24/2020	15:42
Methylene chloride	< 5.00	ug/L	2/24/2020	15:42
o-Xylene	< 2.00	ug/L	2/24/2020	15:42
Styrene	< 5.00	ug/L	2/24/2020	15:42
Tetrachloroethene	< 2.00	ug/L	2/24/2020	15:42
Toluene	< 2.00	ug/L	2/24/2020	15:42
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	15:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-9R
Lab Sample ID: 200801-06 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	15:42
Trichloroethene	< 2.00	ug/L	2/24/2020	15:42
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	15:42
Vinyl chloride	< 2.00	ug/L	2/24/2020	15:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	74.3 - 138		2/24/2020	15:42
4-Bromofluorobenzene	**71.4**	66.3 - 125		2/24/2020	15:42
Pentafluorobenzene	**93.6**	87.4 - 111		2/24/2020	15:42
Toluene-D8	**90.2**	85.8 - 113		2/24/2020	15:42

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68645.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-16		
Lab Sample ID:	200801-07	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 18:47
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 18:47
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 18:47
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 18:47
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 18:47
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 18:47
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 18:47
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 18:47
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 18:47
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 18:47
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 18:47
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 18:47
2-Chlorophenol	< 10.0	ug/L		2/25/2020 18:47
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 18:47
2-Methylphenol	< 10.0	ug/L		2/25/2020 18:47
2-Nitroaniline	< 20.0	ug/L		2/25/2020 18:47
2-Nitrophenol	< 10.0	ug/L		2/25/2020 18:47
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 18:47
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 18:47

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-16		
Lab Sample ID:	200801-07	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	18:47
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	18:47
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	18:47
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	18:47
4-Chloroaniline	< 10.0	ug/L	2/25/2020	18:47
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	18:47
4-Nitroaniline	< 20.0	ug/L	2/25/2020	18:47
4-Nitrophenol	< 20.0	ug/L	2/25/2020	18:47
Acenaphthene	< 10.0	ug/L	2/25/2020	18:47
Acenaphthylene	< 10.0	ug/L	2/25/2020	18:47
Acetophenone	< 10.0	ug/L	2/25/2020	18:47
Anthracene	< 10.0	ug/L	2/25/2020	18:47
Atrazine	< 10.0	ug/L	2/25/2020	18:47
Benzaldehyde	< 10.0	ug/L	2/25/2020	18:47
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	18:47
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	18:47
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	18:47
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	18:47
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	18:47
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	18:47
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	18:47
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	18:47
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	18:47
Caprolactam	< 10.0	ug/L	2/25/2020	18:47
Carbazole	< 10.0	ug/L	2/25/2020	18:47

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	18:47
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	18:47
Dibenzofuran	< 10.0	ug/L	2/25/2020	18:47
Diethyl phthalate	< 10.0	ug/L	2/25/2020	18:47
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	18:47
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	18:47
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	18:47
Fluoranthene	< 10.0	ug/L	2/25/2020	18:47
Fluorene	< 10.0	ug/L	2/25/2020	18:47
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	18:47
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	18:47
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	18:47
Hexachloroethane	< 10.0	ug/L	2/25/2020	18:47
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	18:47
Isophorone	< 10.0	ug/L	2/25/2020	18:47
Naphthalene	< 10.0	ug/L	2/25/2020	18:47
Nitrobenzene	< 10.0	ug/L	2/25/2020	18:47
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	18:47
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	18:47
Pentachlorophenol	< 20.0	ug/L	2/25/2020	18:47
Phenanthrene	< 10.0	ug/L	2/25/2020	18:47
Phenol	< 10.0	ug/L	2/25/2020	18:47
Pyrene	< 10.0	ug/L	2/25/2020	18:47

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**83.8**	59.6 - 114		2/25/2020 18:47
2-Fluorobiphenyl	**55.5**	36.2 - 99.1		2/25/2020 18:47
2-Fluorophenol	**39.6**	14.9 - 105		2/25/2020 18:47
Nitrobenzene-d5	**66.2**	53.7 - 102		2/25/2020 18:47
Phenol-d5	**26.6**	10 - 106		2/25/2020 18:47
Terphenyl-d14	**68.6**	58.7 - 116		2/25/2020 18:47

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44690.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 16:05
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:05
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:05
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 16:05
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 16:05
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:05
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 16:05
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 16:05
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:05
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:05
1,4-Dioxane	< 20.0	ug/L		2/24/2020 16:05
2-Butanone	< 10.0	ug/L		2/24/2020 16:05
2-Hexanone	< 5.00	ug/L		2/24/2020 16:05
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 16:05
Acetone	< 10.0	ug/L		2/24/2020 16:05
Benzene	< 1.00	ug/L		2/24/2020 16:05
Bromochloromethane	< 5.00	ug/L		2/24/2020 16:05
Bromodichloromethane	< 2.00	ug/L		2/24/2020 16:05
Bromoform	< 5.00	ug/L		2/24/2020 16:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-16		
Lab Sample ID:	200801-07	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	16:05
Carbon disulfide	< 2.00	ug/L	2/24/2020	16:05
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	16:05
Chlorobenzene	< 2.00	ug/L	2/24/2020	16:05
Chloroethane	< 2.00	ug/L	2/24/2020	16:05
Chloroform	< 2.00	ug/L	2/24/2020	16:05
Chloromethane	< 2.00	ug/L	2/24/2020	16:05
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:05
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:05
Cyclohexane	< 10.0	ug/L	2/24/2020	16:05
Dibromochloromethane	< 2.00	ug/L	2/24/2020	16:05
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	16:05
Ethylbenzene	< 2.00	ug/L	2/24/2020	16:05
Freon 113	< 2.00	ug/L	2/24/2020	16:05
Isopropylbenzene	< 2.00	ug/L	2/24/2020	16:05
m,p-Xylene	< 2.00	ug/L	2/24/2020	16:05
Methyl acetate	< 2.00	ug/L	2/24/2020	16:05
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	16:05
Methylcyclohexane	< 2.00	ug/L	2/24/2020	16:05
Methylene chloride	< 5.00	ug/L	2/24/2020	16:05
o-Xylene	< 2.00	ug/L	2/24/2020	16:05
Styrene	< 5.00	ug/L	2/24/2020	16:05
Tetrachloroethene	< 2.00	ug/L	2/24/2020	16:05
Toluene	< 2.00	ug/L	2/24/2020	16:05
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-16
Lab Sample ID: 200801-07 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:05
Trichloroethene	< 2.00	ug/L	2/24/2020	16:05
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	16:05
Vinyl chloride	< 2.00	ug/L	2/24/2020	16:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	74.3 - 138		2/24/2020	16:05
4-Bromofluorobenzene	**71.1**	66.3 - 125		2/24/2020	16:05
Pentafluorobenzene	**92.8**	87.4 - 111		2/24/2020	16:05
Toluene-D8	**94.6**	85.8 - 113		2/24/2020	16:05

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68646.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-4		
Lab Sample ID:	200801-08	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 19:15
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:15
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 19:15
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 19:15
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 19:15
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 19:15
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 19:15
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 19:15
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 19:15
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:15
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:15
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 19:15
2-Chlorophenol	< 10.0	ug/L		2/25/2020 19:15
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 19:15
2-Methylphenol	< 10.0	ug/L		2/25/2020 19:15
2-Nitroaniline	< 20.0	ug/L		2/25/2020 19:15
2-Nitrophenol	< 10.0	ug/L		2/25/2020 19:15
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 19:15
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 19:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-4		
Lab Sample ID:	200801-08	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	19:15
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	19:15
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:15
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	19:15
4-Chloroaniline	< 10.0	ug/L	2/25/2020	19:15
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:15
4-Nitroaniline	< 20.0	ug/L	2/25/2020	19:15
4-Nitrophenol	< 20.0	ug/L	2/25/2020	19:15
Acenaphthene	< 10.0	ug/L	2/25/2020	19:15
Acenaphthylene	< 10.0	ug/L	2/25/2020	19:15
Acetophenone	< 10.0	ug/L	2/25/2020	19:15
Anthracene	< 10.0	ug/L	2/25/2020	19:15
Atrazine	< 10.0	ug/L	2/25/2020	19:15
Benzaldehyde	< 10.0	ug/L	2/25/2020	19:15
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	19:15
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	19:15
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	19:15
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	19:15
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	19:15
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	19:15
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	19:15
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	19:15
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	19:15
Caprolactam	< 10.0	ug/L	2/25/2020	19:15
Carbazole	< 10.0	ug/L	2/25/2020	19:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	19:15
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	19:15
Dibenzofuran	< 10.0	ug/L	2/25/2020	19:15
Diethyl phthalate	< 10.0	ug/L	2/25/2020	19:15
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	19:15
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	19:15
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	19:15
Fluoranthene	< 10.0	ug/L	2/25/2020	19:15
Fluorene	< 10.0	ug/L	2/25/2020	19:15
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	19:15
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	19:15
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	19:15
Hexachloroethane	< 10.0	ug/L	2/25/2020	19:15
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	19:15
Isophorone	< 10.0	ug/L	2/25/2020	19:15
Naphthalene	< 10.0	ug/L	2/25/2020	19:15
Nitrobenzene	< 10.0	ug/L	2/25/2020	19:15
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	19:15
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	19:15
Pentachlorophenol	< 20.0	ug/L	2/25/2020	19:15
Phenanthrene	< 10.0	ug/L	2/25/2020	19:15
Phenol	< 10.0	ug/L	2/25/2020	19:15
Pyrene	< 10.0	ug/L	2/25/2020	19:15

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**89.9**	59.6 - 114		2/25/2020 19:15
2-Fluorobiphenyl	**58.4**	36.2 - 99.1		2/25/2020 19:15
2-Fluorophenol	**39.8**	14.9 - 105		2/25/2020 19:15
Nitrobenzene-d5	**68.9**	53.7 - 102		2/25/2020 19:15
Phenol-d5	**26.9**	10 - 106		2/25/2020 19:15
Terphenyl-d14	**69.9**	58.7 - 116		2/25/2020 19:15

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44691.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 16:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 16:27
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 16:27
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:27
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 16:27
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 16:27
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:27
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:27
1,4-Dioxane	< 20.0	ug/L		2/24/2020 16:27
2-Butanone	< 10.0	ug/L		2/24/2020 16:27
2-Hexanone	< 5.00	ug/L		2/24/2020 16:27
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 16:27
Acetone	< 10.0	ug/L		2/24/2020 16:27
Benzene	**4.78**	ug/L		2/24/2020 16:27
Bromochloromethane	< 5.00	ug/L		2/24/2020 16:27
Bromodichloromethane	< 2.00	ug/L		2/24/2020 16:27
Bromoform	< 5.00	ug/L		2/24/2020 16:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	16:27
Carbon disulfide	< 2.00	ug/L	2/24/2020	16:27
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	16:27
Chlorobenzene	< 2.00	ug/L	2/24/2020	16:27
Chloroethane	< 2.00	ug/L	2/24/2020	16:27
Chloroform	< 2.00	ug/L	2/24/2020	16:27
Chloromethane	< 2.00	ug/L	2/24/2020	16:27
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:27
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:27
Cyclohexane	< 10.0	ug/L	2/24/2020	16:27
Dibromochloromethane	< 2.00	ug/L	2/24/2020	16:27
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	16:27
Ethylbenzene	**19.5**	ug/L	2/24/2020	16:27
Freon 113	< 2.00	ug/L	2/24/2020	16:27
Isopropylbenzene	< 2.00	ug/L	2/24/2020	16:27
m,p-Xylene	**4.17**	ug/L	2/24/2020	16:27
Methyl acetate	< 2.00	ug/L	2/24/2020	16:27
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	16:27
Methylcyclohexane	< 2.00	ug/L	2/24/2020	16:27
Methylene chloride	< 5.00	ug/L	2/24/2020	16:27
o-Xylene	< 2.00	ug/L	2/24/2020	16:27
Styrene	< 5.00	ug/L	2/24/2020	16:27
Tetrachloroethene	< 2.00	ug/L	2/24/2020	16:27
Toluene	< 2.00	ug/L	2/24/2020	16:27
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	16:27

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-4
Lab Sample ID: 200801-08 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:27
Trichloroethene	< 2.00	ug/L	2/24/2020	16:27
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	16:27
Vinyl chloride	< 2.00	ug/L	2/24/2020	16:27

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**98.4**	74.3 - 138		2/24/2020	16:27
4-Bromofluorobenzene	**89.7**	66.3 - 125		2/24/2020	16:27
Pentafluorobenzene	**89.7**	87.4 - 111		2/24/2020	16:27
Toluene-D8	**96.8**	85.8 - 113		2/24/2020	16:27

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68647.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 19:44
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 19:44
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 19:44
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 19:44
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 19:44
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 19:44
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 19:44
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 19:44
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 19:44
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:44
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 19:44
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 19:44
2-Chlorophenol	< 10.0	ug/L		2/25/2020 19:44
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 19:44
2-Methylphenol	< 10.0	ug/L		2/25/2020 19:44
2-Nitroaniline	< 20.0	ug/L		2/25/2020 19:44
2-Nitrophenol	< 10.0	ug/L		2/25/2020 19:44
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 19:44
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 19:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	19:44
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	19:44
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:44
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	19:44
4-Chloroaniline	< 10.0	ug/L	2/25/2020	19:44
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	19:44
4-Nitroaniline	< 20.0	ug/L	2/25/2020	19:44
4-Nitrophenol	< 20.0	ug/L	2/25/2020	19:44
Acenaphthene	< 10.0	ug/L	2/25/2020	19:44
Acenaphthylene	< 10.0	ug/L	2/25/2020	19:44
Acetophenone	< 10.0	ug/L	2/25/2020	19:44
Anthracene	< 10.0	ug/L	2/25/2020	19:44
Atrazine	< 10.0	ug/L	2/25/2020	19:44
Benzaldehyde	< 10.0	ug/L	2/25/2020	19:44
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	19:44
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	19:44
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	19:44
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	19:44
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	19:44
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	19:44
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	19:44
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	19:44
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	19:44
Caprolactam	< 10.0	ug/L	2/25/2020	19:44
Carbazole	< 10.0	ug/L	2/25/2020	19:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	19:44
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	19:44
Dibenzofuran	< 10.0	ug/L	2/25/2020	19:44
Diethyl phthalate	< 10.0	ug/L	2/25/2020	19:44
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	19:44
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	19:44
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	19:44
Fluoranthene	< 10.0	ug/L	2/25/2020	19:44
Fluorene	< 10.0	ug/L	2/25/2020	19:44
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	19:44
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	19:44
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	19:44
Hexachloroethane	< 10.0	ug/L	2/25/2020	19:44
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	19:44
Isophorone	< 10.0	ug/L	2/25/2020	19:44
Naphthalene	< 10.0	ug/L	2/25/2020	19:44
Nitrobenzene	< 10.0	ug/L	2/25/2020	19:44
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	19:44
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	19:44
Pentachlorophenol	< 20.0	ug/L	2/25/2020	19:44
Phenanthrene	< 10.0	ug/L	2/25/2020	19:44
Phenol	< 10.0	ug/L	2/25/2020	19:44
Pyrene	< 10.0	ug/L	2/25/2020	19:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-7R
Lab Sample ID: 200801-09 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**79.5**	59.6 - 114		2/25/2020 19:44
2-Fluorobiphenyl	**49.0**	36.2 - 99.1		2/25/2020 19:44
2-Fluorophenol	**33.8**	14.9 - 105		2/25/2020 19:44
Nitrobenzene-d5	**56.8**	53.7 - 102		2/25/2020 19:44
Phenol-d5	**22.6**	10 - 106		2/25/2020 19:44
Terphenyl-d14	**63.4**	58.7 - 116		2/25/2020 19:44

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44692.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-7R
Lab Sample ID: 200801-09 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 16:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 16:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 16:50
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 16:50
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:50
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 16:50
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 16:50
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:50
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 16:50
1,4-Dioxane	< 20.0	ug/L		2/24/2020 16:50
2-Butanone	< 10.0	ug/L		2/24/2020 16:50
2-Hexanone	< 5.00	ug/L		2/24/2020 16:50
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 16:50
Acetone	< 10.0	ug/L		2/24/2020 16:50
Benzene	**6.70**	ug/L		2/24/2020 16:50
Bromochloromethane	< 5.00	ug/L		2/24/2020 16:50
Bromodichloromethane	< 2.00	ug/L		2/24/2020 16:50
Bromoform	< 5.00	ug/L		2/24/2020 16:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-7R		
Lab Sample ID:	200801-09	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Bromomethane	< 2.00	ug/L		2/24/2020	16:50
Carbon disulfide	< 2.00	ug/L		2/24/2020	16:50
Carbon Tetrachloride	< 2.00	ug/L		2/24/2020	16:50
Chlorobenzene	< 2.00	ug/L		2/24/2020	16:50
Chloroethane	< 2.00	ug/L		2/24/2020	16:50
Chloroform	< 2.00	ug/L		2/24/2020	16:50
Chloromethane	< 2.00	ug/L		2/24/2020	16:50
cis-1,2-Dichloroethene	< 2.00	ug/L		2/24/2020	16:50
cis-1,3-Dichloropropene	< 2.00	ug/L		2/24/2020	16:50
Cyclohexane	< 10.0	ug/L		2/24/2020	16:50
Dibromochloromethane	< 2.00	ug/L		2/24/2020	16:50
Dichlorodifluoromethane	< 2.00	ug/L		2/24/2020	16:50
Ethylbenzene	**21.4**	ug/L		2/24/2020	16:50
Freon 113	< 2.00	ug/L		2/24/2020	16:50
Isopropylbenzene	**2.32**	ug/L		2/24/2020	16:50
m,p-Xylene	**5.05**	ug/L		2/24/2020	16:50
Methyl acetate	< 2.00	ug/L		2/24/2020	16:50
Methyl tert-butyl Ether	< 2.00	ug/L		2/24/2020	16:50
Methylcyclohexane	**2.75**	ug/L		2/24/2020	16:50
Methylene chloride	< 5.00	ug/L		2/24/2020	16:50
o-Xylene	**1.58**	ug/L	J	2/24/2020	16:50
Styrene	< 5.00	ug/L		2/24/2020	16:50
Tetrachloroethene	< 2.00	ug/L		2/24/2020	16:50
Toluene	< 2.00	ug/L		2/24/2020	16:50
trans-1,2-Dichloroethene	< 2.00	ug/L		2/24/2020	16:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-7R
Lab Sample ID: 200801-09 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	16:50
Trichloroethene	< 2.00	ug/L	2/24/2020	16:50
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	16:50
Vinyl chloride	< 2.00	ug/L	2/24/2020	16:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.1**	74.3 - 138		2/24/2020	16:50
4-Bromofluorobenzene	**89.6**	66.3 - 125		2/24/2020	16:50
Pentafluorobenzene	**91.6**	87.4 - 111		2/24/2020	16:50
Toluene-D8	**103**	85.8 - 113		2/24/2020	16:50

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68648.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-1		
Lab Sample ID:	200801-10	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 20:12
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:12
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 20:12
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 20:12
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 20:12
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 20:12
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 20:12
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 20:12
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 20:12
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:12
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:12
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 20:12
2-Chlorophenol	< 10.0	ug/L		2/25/2020 20:12
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 20:12
2-Methylphenol	< 10.0	ug/L		2/25/2020 20:12
2-Nitroaniline	< 20.0	ug/L		2/25/2020 20:12
2-Nitrophenol	< 10.0	ug/L		2/25/2020 20:12
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 20:12
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-1		
Lab Sample ID:	200801-10	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	20:12
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	20:12
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:12
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	20:12
4-Chloroaniline	< 10.0	ug/L	2/25/2020	20:12
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:12
4-Nitroaniline	< 20.0	ug/L	2/25/2020	20:12
4-Nitrophenol	< 20.0	ug/L	2/25/2020	20:12
Acenaphthene	< 10.0	ug/L	2/25/2020	20:12
Acenaphthylene	< 10.0	ug/L	2/25/2020	20:12
Acetophenone	< 10.0	ug/L	2/25/2020	20:12
Anthracene	< 10.0	ug/L	2/25/2020	20:12
Atrazine	< 10.0	ug/L	2/25/2020	20:12
Benzaldehyde	< 10.0	ug/L	2/25/2020	20:12
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	20:12
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	20:12
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	20:12
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	20:12
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	20:12
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	20:12
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	20:12
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	20:12
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	20:12
Caprolactam	< 10.0	ug/L	2/25/2020	20:12
Carbazole	< 10.0	ug/L	2/25/2020	20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	20:12
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	20:12
Dibenzofuran	< 10.0	ug/L	2/25/2020	20:12
Diethyl phthalate	< 10.0	ug/L	2/25/2020	20:12
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	20:12
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	20:12
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	20:12
Fluoranthene	< 10.0	ug/L	2/25/2020	20:12
Fluorene	< 10.0	ug/L	2/25/2020	20:12
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	20:12
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	20:12
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	20:12
Hexachloroethane	< 10.0	ug/L	2/25/2020	20:12
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	20:12
Isophorone	< 10.0	ug/L	2/25/2020	20:12
Naphthalene	< 10.0	ug/L	2/25/2020	20:12
Nitrobenzene	< 10.0	ug/L	2/25/2020	20:12
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	20:12
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	20:12
Pentachlorophenol	< 20.0	ug/L	2/25/2020	20:12
Phenanthrene	< 10.0	ug/L	2/25/2020	20:12
Phenol	< 10.0	ug/L	2/25/2020	20:12
Pyrene	< 10.0	ug/L	2/25/2020	20:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**88.6**	59.6 - 114		2/25/2020 20:12
2-Fluorobiphenyl	**58.1**	36.2 - 99.1		2/25/2020 20:12
2-Fluorophenol	**34.9**	14.9 - 105		2/25/2020 20:12
Nitrobenzene-d5	**65.2**	53.7 - 102		2/25/2020 20:12
Phenol-d5	**24.1**	10 - 106		2/25/2020 20:12
Terphenyl-d14	**71.7**	58.7 - 116		2/25/2020 20:12

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44693.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-1		
Lab Sample ID:	200801-10	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 17:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 17:13
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 17:13
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:13
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 17:13
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 17:13
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:13
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:13
1,4-Dioxane	< 20.0	ug/L		2/24/2020 17:13
2-Butanone	< 10.0	ug/L		2/24/2020 17:13
2-Hexanone	< 5.00	ug/L		2/24/2020 17:13
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 17:13
Acetone	< 10.0	ug/L		2/24/2020 17:13
Benzene	**5.28**	ug/L		2/24/2020 17:13
Bromochloromethane	< 5.00	ug/L		2/24/2020 17:13
Bromodichloromethane	< 2.00	ug/L		2/24/2020 17:13
Bromoform	< 5.00	ug/L		2/24/2020 17:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	17:13
Carbon disulfide	< 2.00	ug/L	2/24/2020	17:13
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	17:13
Chlorobenzene	< 2.00	ug/L	2/24/2020	17:13
Chloroethane	< 2.00	ug/L	2/24/2020	17:13
Chloroform	< 2.00	ug/L	2/24/2020	17:13
Chloromethane	< 2.00	ug/L	2/24/2020	17:13
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:13
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:13
Cyclohexane	**70.9**	ug/L	2/24/2020	17:13
Dibromochloromethane	< 2.00	ug/L	2/24/2020	17:13
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	17:13
Ethylbenzene	**84.0**	ug/L	2/24/2020	17:13
Freon 113	< 2.00	ug/L	2/24/2020	17:13
Isopropylbenzene	**6.48**	ug/L	2/24/2020	17:13
m,p-Xylene	**48.5**	ug/L	2/24/2020	17:13
Methyl acetate	< 2.00	ug/L	2/24/2020	17:13
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	17:13
Methylcyclohexane	**29.4**	ug/L	2/24/2020	17:13
Methylene chloride	< 5.00	ug/L	2/24/2020	17:13
o-Xylene	**7.64**	ug/L	2/24/2020	17:13
Styrene	< 5.00	ug/L	2/24/2020	17:13
Tetrachloroethene	< 2.00	ug/L	2/24/2020	17:13
Toluene	**2.28**	ug/L	2/24/2020	17:13
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:13

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-1
Lab Sample ID: 200801-10 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 17:13
Trichloroethene	< 2.00	ug/L			2/24/2020 17:13
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 17:13
Vinyl chloride	< 2.00	ug/L			2/24/2020 17:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**88.6**	74.3 - 138		2/24/2020 17:13
4-Bromofluorobenzene	**97.2**	66.3 - 125		2/24/2020 17:13
Pentafluorobenzene	**95.5**	87.4 - 111		2/24/2020 17:13
Toluene-D8	**104**	85.8 - 113		2/24/2020 17:13

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68649.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-3		
Lab Sample ID:	200801-11	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		2/25/2020 20:40
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,2-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,3-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
1,4-Dichlorobenzene	< 10.0	ug/L		2/25/2020 20:40
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		2/25/2020 20:40
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		2/25/2020 20:40
2,4,5-Trichlorophenol	< 20.0	ug/L		2/25/2020 20:40
2,4,6-Trichlorophenol	< 10.0	ug/L		2/25/2020 20:40
2,4-Dichlorophenol	< 10.0	ug/L		2/25/2020 20:40
2,4-Dimethylphenol	< 20.0	ug/L		2/25/2020 20:40
2,4-Dinitrophenol	< 20.0	ug/L		2/25/2020 20:40
2,4-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:40
2,6-Dinitrotoluene	< 10.0	ug/L		2/25/2020 20:40
2-Chloronaphthalene	< 10.0	ug/L		2/25/2020 20:40
2-Chlorophenol	< 10.0	ug/L		2/25/2020 20:40
2-Methylnapthalene	< 10.0	ug/L		2/25/2020 20:40
2-Methylphenol	< 10.0	ug/L		2/25/2020 20:40
2-Nitroaniline	< 20.0	ug/L		2/25/2020 20:40
2-Nitrophenol	< 10.0	ug/L		2/25/2020 20:40
3&4-Methylphenol	< 10.0	ug/L		2/25/2020 20:40
3,3'-Dichlorobenzidine	< 10.0	ug/L		2/25/2020 20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier:	MW-3		
Lab Sample ID:	200801-11	**Date Sampled:**	2/21/2020
Matrix:	Groundwater	**Date Received:**	2/21/2020

3-Nitroaniline	< 20.0	ug/L	2/25/2020	20:40
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	2/25/2020	20:40
4-Bromophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:40
4-Chloro-3-methylphenol	< 10.0	ug/L	2/25/2020	20:40
4-Chloroaniline	< 10.0	ug/L	2/25/2020	20:40
4-Chlorophenyl phenyl ether	< 10.0	ug/L	2/25/2020	20:40
4-Nitroaniline	< 20.0	ug/L	2/25/2020	20:40
4-Nitrophenol	< 20.0	ug/L	2/25/2020	20:40
Acenaphthene	< 10.0	ug/L	2/25/2020	20:40
Acenaphthylene	< 10.0	ug/L	2/25/2020	20:40
Acetophenone	< 10.0	ug/L	2/25/2020	20:40
Anthracene	< 10.0	ug/L	2/25/2020	20:40
Atrazine	< 10.0	ug/L	2/25/2020	20:40
Benzaldehyde	< 10.0	ug/L	2/25/2020	20:40
Benzo (a) anthracene	< 10.0	ug/L	2/25/2020	20:40
Benzo (a) pyrene	< 10.0	ug/L	2/25/2020	20:40
Benzo (b) fluoranthene	< 10.0	ug/L	2/25/2020	20:40
Benzo (g,h,i) perylene	< 10.0	ug/L	2/25/2020	20:40
Benzo (k) fluoranthene	< 10.0	ug/L	2/25/2020	20:40
Bis (2-chloroethoxy) methane	< 10.0	ug/L	2/25/2020	20:40
Bis (2-chloroethyl) ether	< 10.0	ug/L	2/25/2020	20:40
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	2/25/2020	20:40
Butylbenzylphthalate	< 10.0	ug/L	2/25/2020	20:40
Caprolactam	< 10.0	ug/L	2/25/2020	20:40
Carbazole	< 10.0	ug/L	2/25/2020	20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Chrysene	< 10.0	ug/L	2/25/2020	20:40
Dibenz (a,h) anthracene	< 10.0	ug/L	2/25/2020	20:40
Dibenzofuran	< 10.0	ug/L	2/25/2020	20:40
Diethyl phthalate	< 10.0	ug/L	2/25/2020	20:40
Dimethyl phthalate	< 20.0	ug/L	2/25/2020	20:40
Di-n-butyl phthalate	< 10.0	ug/L	2/25/2020	20:40
Di-n-octylphthalate	< 10.0	ug/L	2/25/2020	20:40
Fluoranthene	< 10.0	ug/L	2/25/2020	20:40
Fluorene	< 10.0	ug/L	2/25/2020	20:40
Hexachlorobenzene	< 10.0	ug/L	2/25/2020	20:40
Hexachlorobutadiene	< 10.0	ug/L	2/25/2020	20:40
Hexachlorocyclopentadiene	< 10.0	ug/L	2/25/2020	20:40
Hexachloroethane	< 10.0	ug/L	2/25/2020	20:40
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	2/25/2020	20:40
Isophorone	< 10.0	ug/L	2/25/2020	20:40
Naphthalene	< 10.0	ug/L	2/25/2020	20:40
Nitrobenzene	< 10.0	ug/L	2/25/2020	20:40
N-Nitroso-di-n-propylamine	< 10.0	ug/L	2/25/2020	20:40
N-Nitrosodiphenylamine	< 10.0	ug/L	2/25/2020	20:40
Pentachlorophenol	< 20.0	ug/L	2/25/2020	20:40
Phenanthrene	< 10.0	ug/L	2/25/2020	20:40
Phenol	< 10.0	ug/L	2/25/2020	20:40
Pyrene	< 10.0	ug/L	2/25/2020	20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**87.3**	59.6 - 114		2/25/2020 20:40
2-Fluorobiphenyl	**58.9**	36.2 - 99.1		2/25/2020 20:40
2-Fluorophenol	**36.0**	14.9 - 105		2/25/2020 20:40
Nitrobenzene-d5	**67.0**	53.7 - 102		2/25/2020 20:40
Phenol-d5	**24.6**	10 - 106		2/25/2020 20:40
Terphenyl-d14	**69.2**	58.7 - 116		2/25/2020 20:40

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 2/24/2020
Data File: B44694.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 17:35
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:35
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 17:35
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 17:35
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:35
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 17:35
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 17:35
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:35
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:35
1,4-Dioxane	< 20.0	ug/L		2/24/2020 17:35
2-Butanone	< 10.0	ug/L		2/24/2020 17:35
2-Hexanone	< 5.00	ug/L		2/24/2020 17:35
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 17:35
Acetone	< 10.0	ug/L		2/24/2020 17:35
Benzene	**2.11**	ug/L		2/24/2020 17:35
Bromochloromethane	< 5.00	ug/L		2/24/2020 17:35
Bromodichloromethane	< 2.00	ug/L		2/24/2020 17:35
Bromoform	< 5.00	ug/L		2/24/2020 17:35

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	17:35
Carbon disulfide	< 2.00	ug/L	2/24/2020	17:35
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	17:35
Chlorobenzene	< 2.00	ug/L	2/24/2020	17:35
Chloroethane	< 2.00	ug/L	2/24/2020	17:35
Chloroform	< 2.00	ug/L	2/24/2020	17:35
Chloromethane	< 2.00	ug/L	2/24/2020	17:35
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:35
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:35
Cyclohexane	< 10.0	ug/L	2/24/2020	17:35
Dibromochloromethane	< 2.00	ug/L	2/24/2020	17:35
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	17:35
Ethylbenzene	< 2.00	ug/L	2/24/2020	17:35
Freon 113	< 2.00	ug/L	2/24/2020	17:35
Isopropylbenzene	**2.53**	ug/L	2/24/2020	17:35
m,p-Xylene	< 2.00	ug/L	2/24/2020	17:35
Methyl acetate	< 2.00	ug/L	2/24/2020	17:35
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	17:35
Methylcyclohexane	< 2.00	ug/L	2/24/2020	17:35
Methylene chloride	< 5.00	ug/L	2/24/2020	17:35
o-Xylene	< 2.00	ug/L	2/24/2020	17:35
Styrene	< 5.00	ug/L	2/24/2020	17:35
Tetrachloroethene	< 2.00	ug/L	2/24/2020	17:35
Toluene	< 2.00	ug/L	2/24/2020	17:35
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:35

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: MW-3
Lab Sample ID: 200801-11 **Date Sampled:** 2/21/2020
Matrix: Groundwater **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L			2/24/2020 17:35
Trichloroethene	< 2.00	ug/L			2/24/2020 17:35
Trichlorofluoromethane	< 2.00	ug/L			2/24/2020 17:35
Vinyl chloride	< 2.00	ug/L			2/24/2020 17:35

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.7**	74.3 - 138		2/24/2020 17:35
4-Bromofluorobenzene	**95.1**	66.3 - 125		2/24/2020 17:35
Pentafluorobenzene	**94.2**	87.4 - 111		2/24/2020 17:35
Toluene-D8	**105**	85.8 - 113		2/24/2020 17:35

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68650.D

Report Prepared Tuesday, March 3, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Trip Blank T-967
Lab Sample ID: 200801-12 **Date Sampled:** 2/18/2020
Matrix: Water **Date Received:** 2/21/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1-Dichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,1-Dichloroethene	< 2.00	ug/L		2/24/2020 17:58
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:58
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2020 17:58
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2020 17:58
1,2-Dibromoethane	< 2.00	ug/L		2/24/2020 17:58
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:58
1,2-Dichloroethane	< 2.00	ug/L		2/24/2020 17:58
1,2-Dichloropropane	< 2.00	ug/L		2/24/2020 17:58
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:58
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2020 17:58
1,4-Dioxane	< 20.0	ug/L		2/24/2020 17:58
2-Butanone	< 10.0	ug/L		2/24/2020 17:58
2-Hexanone	< 5.00	ug/L		2/24/2020 17:58
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2020 17:58
Acetone	< 10.0	ug/L		2/24/2020 17:58
Benzene	< 1.00	ug/L		2/24/2020 17:58
Bromochloromethane	< 5.00	ug/L		2/24/2020 17:58
Bromodichloromethane	< 2.00	ug/L		2/24/2020 17:58
Bromoform	< 5.00	ug/L		2/24/2020 17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Trip Blank T-967
Lab Sample ID: 200801-12 **Date Sampled:** 2/18/2020
Matrix: Water **Date Received:** 2/21/2020

Bromomethane	< 2.00	ug/L	2/24/2020	17:58
Carbon disulfide	< 2.00	ug/L	2/24/2020	17:58
Carbon Tetrachloride	< 2.00	ug/L	2/24/2020	17:58
Chlorobenzene	< 2.00	ug/L	2/24/2020	17:58
Chloroethane	< 2.00	ug/L	2/24/2020	17:58
Chloroform	< 2.00	ug/L	2/24/2020	17:58
Chloromethane	< 2.00	ug/L	2/24/2020	17:58
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:58
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:58
Cyclohexane	< 10.0	ug/L	2/24/2020	17:58
Dibromochloromethane	< 2.00	ug/L	2/24/2020	17:58
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2020	17:58
Ethylbenzene	< 2.00	ug/L	2/24/2020	17:58
Freon 113	< 2.00	ug/L	2/24/2020	17:58
Isopropylbenzene	< 2.00	ug/L	2/24/2020	17:58
m,p-Xylene	< 2.00	ug/L	2/24/2020	17:58
Methyl acetate	< 2.00	ug/L	2/24/2020	17:58
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2020	17:58
Methylcyclohexane	< 2.00	ug/L	2/24/2020	17:58
Methylene chloride	< 5.00	ug/L	2/24/2020	17:58
o-Xylene	< 2.00	ug/L	2/24/2020	17:58
Styrene	< 5.00	ug/L	2/24/2020	17:58
Tetrachloroethene	< 2.00	ug/L	2/24/2020	17:58
Toluene	< 2.00	ug/L	2/24/2020	17:58
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2020	17:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200801

Client: **City of Rochester**

Project Reference: 1200 East Main Street PO# 20005141

Sample Identifier: Trip Blank T-967
Lab Sample ID: 200801-12 **Date Sampled:** 2/18/2020
Matrix: Water **Date Received:** 2/21/2020

trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2020	17:58
Trichloroethene	< 2.00	ug/L	2/24/2020	17:58
Trichlorofluoromethane	< 2.00	ug/L	2/24/2020	17:58
Vinyl chloride	< 2.00	ug/L	2/24/2020	17:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.8**	74.3 - 138		2/24/2020	17:58
4-Bromofluorobenzene	**77.5**	66.3 - 125		2/24/2020	17:58
Pentafluorobenzene	**95.2**	87.4 - 111		2/24/2020	17:58
Toluene-D8	**90.8**	85.8 - 113		2/24/2020	17:58

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x68651.D

Report Prepared Tuesday, March 3, 2020

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.

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 re-perform 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 th 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.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	LAB PROJECT ID: 206801
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Quotation #:
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 20005141

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs								REMARKS	PARADIGM LAB SAMPLE NUMBER
2/20/2020	1140		X	MW-8	GW	4	X	X									01
↓	1300		X	MW-2	↓	4	X	X									02
↓	1540		X	MW-11	↓	4	X	X									03
2/21/2020	920		X	MW-15R MS/MSD	↓	~~3~~ 9 (SJ 2/21/2020)	X	X									04
↓	NA		X	Blind Duplicate	↓	3	X	X									05
↓	1050		X	MW-9R1	↓	3	X	X									06
↓	1130		X	MW-16	↓	3	X	X									07
↓	1330		X	MW-4	↓	3	X	X									08
↓	1430		X	MW-7R	↓	3	X	X									09
↓	1515			MW-1	↓	3	X	X								5°C iced 2/21/2020 1629	10

No custody seals client delivered MollyNail 2/21/2020

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other (please indicate date needed:)	☐	Other (please indicate package needed:)	☐	Other EDD (please indicate EDD needed:)	☐

	Signature	Date/Time
Sampled By	Alexandra Zobel	2/20-2/21
Relinquished By	A. Zobel	2/21/2020 1625
Received By	[signature]	2/21/2020 1625
Received @ Lab By	MollyNail	2/21/2020 1629

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

1882 3 ecm 2/21/2020

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

2 of 3

ee
W
2/21/2020

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	CITY OF ROCHESTER	CLIENT:	Same	200801
ADDRESS:	30 CHURCH ST ROOM 300B	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	585-428-7094	PHONE:		Email: alexandra.zobel@cityofrochester.gov
ATTN:	Alexandra Zobel	ATTN:		

PROJECT REFERENCE

1200 East Main Street
PO# 20005141

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

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
2/21/20	1555		X	MW-3	GW	3	X	X		11
2/18/2020				Trip Blank T967 MW-2/21/2020	W	1	X			12

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	☒	Batch QC	☐	Basic EDD ☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☐
Rush 2 day	☐	Category B	☒	
Rush 1 day	☐			
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed: ☐

Alexandra Zobel — Sampled By — Date/Time 2/20-2/21

A. Zobel — Relinquished By — Date/Time 2/21/20 @ 16 25

Received By — Date/Time 2/21/2020 1625

Received @ Lab By — Date/Time 2/21/2020 1629

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: City of Rock

Lab Project ID:

Completed by: MollyKail

Date: 2/21/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		SVOA
Comments			
Preservation	VOA		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	5'c iced		
Compliant Sample Quantity/Type	X		
Comments			

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

APPENDIX F:

OXYGEN INJECTION SYSTEM RECORDS AND DEACTIVATION DOCUMENTATION

From: Forbes, Jane
To: "charlotte.theobald@dec.ny.gov"
Subject: 1200 East Main Street
Date: Thursday, February 21, 2019 11:43:47 AM
Attachments: Total VOCs_vs_Time_Nov2016-March2018.xls

Hi Charlotte:

I've sent the COC over to our Law Department to get it filed with the County and I should have the Notice of COC, the Final FER and Final SMP added to the document repository at the Winton Branch Library by the end of the week.

As for shutting down the systems, I've been reviewing the language in the SMP regarding system termination (Section 3.3.3) and all it says is that the City "will petition NYSDEC to terminate" "once contaminant concentrations in groundwater and/ or soil have become asymptotic". It doesn't state that system termination would require a 60-day change of use notification. I reviewed the 60 Day notification form too and I'd interpret it as not being required since: (i) there is no change in Remedial Party(ies); (ii) the COC is not being transferred; and (iii) we are not physically altering or changing the use of the site at this time. We will submit the COU once we move toward the RPD redevelopment.

I'd like to decommission the systems as soon as possible so the GW conditions can stabilize before we conduct our first, post COC, quarterly sampling event. How do you want me to proceed with my petition to terminate? Will this e-mail suffice, or do you need a formal letter detailing the decommissioning procedures?

Also, I haven't submitted any data to you yet, but in anticipation that we were to have the COC *last year*, we were already quarterly sampling the on-site wells beginning in November 2017 through March 2018. I stopped that GW sampling in March 2018 when we were delayed in getting the COC. No sense in wasting funds. But FYI, I've included a table showing Total VOCs and Benzene. How do you want to handle that data? Do you require a separate GW Monitoring Report? I can draft something that details the monthly inspections and GW results. LMK

Feel free to call if you have comments or questions.

Thanks!

Jane MH Forbes, MPA
Sr. Environmental Specialist
City of Rochester – Division of Environmental Quality
30 Church Street Room 300B
Rochester, NY 14614
585-428-7892 (office)
585-314-1719 (mobile)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

March 18, 2019

Jane Forbes, MPA
Sr. Environmental Specialist
City of Rochester – Division of Environmental Quality
30 Church Street Room 300B
Rochester, New York 14614

Re: Site Management
1200 East Main Street
Site No.: B00129
Rochester (C), Monroe (C)

Dear Ms. Forbes:

The New York State Department of Environmental Conservation (Department) has completed its review of the City of Rochester request to shut down the oxygen injection and soil vapor extraction system at the 1200 East Main Street site (Site) located in the City of Rochester. The proposed shutdown of the remedial systems is to assess the rebound potential for contamination in site groundwater. Based on the information provided in your e-mail correspondences dated February 21, 2019 and March 14, 2019; groundwater sampling summary table; and the Site's Site Management Plan (SMP), the Department is amenable to the system shut down providing the following stipulations.

1. The oxygen injection trailer and soil vapor extraction system will be shut down and the associated shed and trailer will be removed from the Site.

2. The injection wells and soil vapor extraction trenches will remain in place and will not be removed/decommissioned without prior Department approval.

3. The subsequent groundwater sampling event will occur 30 days after the oxygen injection and soil vapor extraction system has been shut down.

4. The groundwater sampling event will be in accordance with the approved SMP - Page 29, Table C of the SMP.

5. No groundwater monitoring wells will be decommissioned as part of this remedial system shutdown. Department approval must be obtained prior to the decommissioning of groundwater monitoring wells associated with the Site.

6. If significant rebound of groundwater contamination occurs during the shutdown of the remedial systems, additional measures/treatment of the Site's groundwater will need to be taken to address the groundwater contamination rebound.

7. The laboratory data package will be ASP Cat B deliverable and, in the Department's current EDD format as defined in Section 7.0 of the SMP.

8. The Department will be provided a summary table presenting groundwater sampling data. The summary table will include all compounds detected from all groundwater sampling events since November 2016.

The following items are friendly reminders associated with the development of the Rochester Police Department Building (RPD Building):

9. Failure to maintain compliance with the SMP, the Certificate of Completion (COC), the Environmental Easement (EE), and the State Assistance Contract (SAC) could be grounds for revocation of the site's COC which can result in the City of Rochester having to repay all or a portion of the State's 90% reimbursement **($790,624)** to the City of Rochester associated with the investigation and remediation of the Site.

10. It must be noted that any construction activities associated with the development of the RPD Building will require a 60 day change of use notification to the Department. Department approval is required prior to the start of any construction activities associated with RPD Building. It would advantageous for the City of Rochester to submit the 60 day change of use notification sooner rather than later.

11. The Site's SMP must be implemented during the construction activities at the Site. The SMP's Excavation Work Plan (EWP) must be implemented for all ground intrusive activities at the Site. All excavated soil/fill material must be managed in accordance with the SMP's EWP.

12. The Department now has new guidance regarding the PFAS and 1,4-Dioxane sampling for soil/fill material to be imported to site. No soil/fill material will be allowed to be imported to the site with laboratory analysis for 1,4-Dioxane and PFAS. Other fill material (non-soil) to be imported to the site must meet the sieve analysis as presented in DER-10 Section 5.4(e). PFAS and 1,4-Dioxane guidance has been attached.

13. No groundwater monitoring wells will be decommissioned as part of this remedial system shut down. Department approval must be obtained prior to the decommissioning of groundwater monitoring wells associated with the Site.

14. Any structures built on the Site must be evaluated for soil vapor intrusion.

15. The SMP will need to be update when and if the Site is redeveloped and the Department must approve the updated SMP.

If you have any questions or concerns regarding this letter, or need further assistance with the Site, please feel free to contact me at 585-226-5354 or via e-mail at charlotte.theobald@dec.ny.gov.

Sincerely,

Charlotte B. Theobald
Environmental Engineer 1

ec:
Anne Spaulding (City of Rochester)
Joseph Biondolillo (City of Rochester)
Justin Deming (NYS. Dept. of Health – Albany)

Melissa Doroski (NYS Dept. of Health - Albany)
John Frazer (MCHD)
Wade Silkworth (MCHD)
Dennis Harkawik (NYSDEC)
Bernette Schilling (NYSDEC)
Todd Caffoe (NYSDEC)

March 2019

Sampling for 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS) Under DEC's Part 375 Remedial Programs

Objective

The Department of Environmental Conservation (DEC) is requiring sampling of all environmental media and subsequent analysis for the emerging contaminants 1,4-Dioxane and PFAS as part of all remedial programs implemented under 6 NYCRR Part 375, as further described in the guidance below.

Sample Planning

The number of samples required for emerging contaminant analyses is to be the same number of samples where "full TAL/TCL sampling" would typically be required in an investigation or remedial action compliance program.

Sampling of all media for ECs is required at all sites coming into or already in an investigative phase of any DER program. In other words, if the sampling outlined in the guidance hasn't already been done or isn't part of an existing work plan to be sampled for in the future, it will be necessary to go back out and perform the sampling prior to approving a SC report or issuing a decision document.

PFAS and 1,4-dioxane shall be incorporated into the investigation of potentially affected media, including soil, groundwater, surface water, and sediment as an addition to the standard "full TAL/TCL sampling." Biota sampling may be necessary based upon the potential for biota to be affected as determined pursuant to a Fish and Wildlife Impact analysis. Soil vapor sampling for PFAS and 1,4-dioxane is not required.

Upon an emerging contaminant being identified as a contaminant of concern (COC) for a site, those compounds must be assessed as part of the remedy selection process in accordance with Part 375 and DER-10 and included as part of the monitoring program upon entering the site management phase.

Soil imported to a site for use in a soil cap, soil cover, or as backfill must be sampled for 1,4-dioxane and PFAS contamination in general conformance with DER-10, section 5.4(e). Assessment of the soil data will be made on a site-specific basis to determine appropriateness for use.

The work plan should explicitly describe analysis and reporting requirements, including laboratory analytical procedures for modified methods discussed below.

Analysis and Reporting

Labs should provide a full category B deliverable, and a DUSR should be prepared by an independent 3rd party data validator. QA/QC samples should be collected as required in DER-10, Section 2.3(c). The electronic data submission should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html.

PFAS analysis and reporting: DEC has developed a *PFAS Analyte List* (below) for remedial programs. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. If lab and/or matrix specific issues are encountered for any compounds, the DEC project manager, in consultation with the DEC remedial program chemist, will make case-by-case decisions as to whether certain analytes may be temporarily or permanently discontinued from analysis at each site.

Currently, ELAP does not offer certification for PFAS compounds in matrices other than finished drinking water. However, laboratories analyzing environmental samples (e.g., soil, sediments, and groundwater) are required by DER to hold ELAP certification for PFOA and PFOS in drinking water by EPA Method 537 or ISO 25101. Labs must also adhere to the requirements and criteria set forth in the Laboratory Guidance for Analysis of PFAS in Non-Potable Water and Solids.

Modified EPA Method 537 is the preferred method to use for environmental samples due to its ability to achieve very low detection limits. Reporting limits for PFAS in groundwater and soil are to be 2 ng/L (ppt) and 1 ug/kg (ppb), respectively. If contract labs or work plans submitted by responsible parties indicate that they are not able to achieve these reporting limits for the entire list of 21 PFAS, site-specific decisions will need to be made by the DEC project manager in consultation with the DEC remedial program chemist. Note: Reporting limits for PFOA and PFOS in groundwater should not exceed 2 ng/L.

Additional laboratory methods for analysis of PFAS may be warranted at a site. These methods include Synthetic Precipitation Leaching Procedure (SPLP) by EPA Method 1312 and Total Oxidizable Precursor Assay (TOP Assay).

SPLP is a technique for determining the potential for chemicals in soil to leach to groundwater and may be helpful in determining the need for addressing PFAS-containing soils or other solid material as part of the remedy. SPLP sampling need not be considered if there are no elevated PFAS levels in groundwater. If elevated levels of PFAS are detected in water, and PFAS are also seen in soil, then an SPLP test should be considered to better understand the relationship between the PFAS in the two media.

The TOP Assay can assist in determining the potential PFAS risk at a site. For example, some polyfluoroalkyl substances may transform to form perfluoroalkyl substances, resulting in an increase in perfluoroalkyl substance concentrations as contaminated groundwater moves away from the site. To conceptualize the amount and type of oxidizable perfluoroalkyl substances which could be liberated in the environment, a “TOP Assay” analysis can be performed, which approximates the maximum concentration of perfluoroalkyl substances that could be generated if all polyfluoroalkyl substances were oxidized.

PFAS-containing materials can be made up of per- and polyfluoroalkyl substances that are not analyzable by routine analytical methodology (LC-MS/MS). The TOP assay converts, through oxidation, polyfluoroalkyl substances (precursors) into perfluoroalkyl substances that can be detected by current analytical methodology. Please note that analysis of highly contaminated samples, such as those from an AFFF site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances. Please consult with a DEC remedial program chemist for assistance interpreting the results.

1,4-Dioxane analysis and reporting: The reporting limit for 1,4-dioxane in groundwater should be no higher than 0.35 µg/L (ppb) and no higher than 0.1 mg/kg (ppm) in soil. Although ELAP offers certification for both EPA Method 8260 SIM and EPA Method 8270 SIM in waters, DER is advising the use of Method 8270 SIM because it provides a more robust extraction procedure, uses a larger sample volume, and is less vulnerable to interference from chlorinated solvents. The analysis currently performed for SVOCs in soil is adequate for evaluation of 1,4-dioxane in soil, which already has an established SCO.

Refinement of sample analyses

As with other contaminants that are analyzed for at a site, the emerging contaminant analyte list may be refined for future sampling events based on investigative findings. Initially, however, sampling using this PFAS Analyte List and 1,4-dioxane is needed to understand the nature of contamination.

PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonates	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanessulfonic acid	PFOS	1763-23-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluoroalkyl carboxylates	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7
Fluorinated Telomer Sulfonates	6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2
	8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4
Perfluorooctane-sulfonamides	Perfluroroctanesulfonamide	FOSA	754-91-6
Perfluorooctane-sulfonamidoacetic acids	N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSAA	2991-50-6

MATRIX
ENVIRONMENTAL TECHNOLOGIES INC.
Remediation, Water Treatment and Environmental Engineering
716.662.0745 | www.matrixbiotech.com

July 6, 2020

Jane Forbes
City of Rochester Department of Environmental Quality
30 Church Street
Room 300B
Rochester, NY 14614

RE: Remediation Systems Decommissioning
Site Number B-00129-8
1200 East Main Street
Rochester, Monroe County, NY

Dear Ms. Forbes,

On May 28 and 31, 2019, Matrix Environmental Technologies Inc. decommissioned the remediation systems at the site referenced above. The following work was completed:

Soil Vapor Extraction System

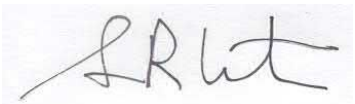
- Disconnected the electrical service and piping to the extraction wells
- Removed the vapor extraction system enclosure (wood shed) and transported to an off site location for storage

Oxygen Injection System

- Completed maintenance on the oxygen generator and air compressor
- Disconnected the electrical service and piping to the injection wells
- Removed the trailer mounted system and transported to an off site location for storage

Please let me know if you have any questions.

Sincerely,
Matrix Environmental Technologies Inc.



Sean R. Carter, P.E.
Principal Engineer

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 8/22/18

Project No. 12-041 Project Name COR-1200 E. Main Performed By Peck
Bi-Weekly _____ Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 110
CYCLE (psi) 70
RECIEVER (psi) 53
RUN TIME (hours) 20651
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 102
Run Hours 28572
Load Hours 17466
System Starts 100001
Motor Hours _____

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	26	25	~~29~~ 32	27	30	28
PSI	3	4	4	5	4	3
Point ID	IP-7	IP-8	IP-9			
SCFH	26	30	30			
PSI	2	2	1			

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	6589	8000	N
OIL FILTER	2589	4000	N
AIR FILTER	3802	4000	N
AIR/OIL SEPERATOR	6126	8000	N
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 9/5/18

Project No. 12-041 Project Name COR-1200 E. Main Performed By Peck
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 110
CYCLE (psi) 70
RECIEVER (psi) 60
RUN TIME (hours) 20976
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 100
Run Hours 28624
Load Hours 17471
System Starts 100622
Motor Hours _____

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	10	8	8	14	12	12
PSI	3	1	1	4	1	1
Point ID	IP-7	IP-8	IP-9			
SCFH	8	12	8			
PSI	1	1	1			

Points set to _____ SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	6,2537	8000	
OIL FILTER	2537	4000	
AIR FILTER	3750	4000	
AIR/OIL SEPERATOR	6074	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 9/25/18

Project No. **12-041** Project Name **COR-1200 E. Main** Performed By _____
Bi-Weekly _____ Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 110
CYCLE (psi) 70
RECIEVER (psi) 63
RUN TIME (hours) 21457
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 100
Run Hours 28790
Load Hours 17560
System Starts 101723
Motor Hours _____

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	28	27	28	27	28	26
PSI	3	3	4	4	3	4
Point ID	IP-7	IP-8	IP-9			
SCFH	26	29	27			
PSI	1	2	2			

Points set to _____ SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	6371	8000	
OIL FILTER	2371	4000	
AIR FILTER	3584	4000	
AIR/OIL SEPERATOR	5908	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 10/9/18

Project No. 12-041 Project Name COR-1200 E. Main Performed By _____
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 105
CYCLE (psi) 70
RECIEVER (psi) 55
RUN TIME (hours) 21788
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 103
Run Hours 28502
Load Hours 17621
System Starts _____
Motor Hours 10241

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	26	27	24	24	22	23
PSI	3	4	4	5	3	4
Point ID	IP-7	IP-8	IP-9			
SCFH	23	30	24			
PSI	2	3	2			

Points set to _____ SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	6259	8000	
OIL FILTER	2259	4000	
AIR FILTER	3472	4000	
AIR/OIL SEPERATOR	5896	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 11/2/2018

Project No. 12-041 Project Name COR-1200 E. Main Performed By AZM
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 40
CYCLE (psi) 35
RECIEVER (psi) 60
RUN TIME (hours) 22359
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 39
Run Hours 29128
Load Hours 17757
System Starts _____
Motor Hours 29128

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	48	56	54	48	60	56
PSI	3	3	3	4	3	3
Point ID	IP-7	IP-8	IP-9			
SCFH	52	42	52			
PSI	1.5	2	2			

Points set to _____ SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	6033	8000	N
OIL FILTER	2033	4000	↓
AIR FILTER	3246	4000	
AIR/OIL SEPERATOR	5570	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 11/26/2018

Project No. 12-041 Project Name COR-1200 E. Main Performed By A.Z.M
Bi-Weekly _____ Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 120
CYCLE (psi) 70
RECIEVER (psi) 55
RUN TIME (hours) 22937
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 99
Run Hours 29251
Load Hours 17826
System Starts _____
Motor Hours 29251

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	21	21	~~20~~ 18	21	22	25
PSI	3	4.5	~~5~~ 3.5	5	3	3
Point ID	IP-7	IP-8	IP-9			
SCFH	22	24	20			
PSI	2	3	3			

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5910	8000	N
OIL FILTER	1910	4000	↓
AIR FILTER	3123	4000	
AIR/OIL SEPERATOR	5447	8000	↓
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 12/5/2018

Project No. 12-041 Project Name COR-1200 E. Main Performed By AZM
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 100
CYCLE (psi) 70
RECIEVER (psi) 50
RUN TIME (hours) 23149
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 97
Run Hours 29304
Load Hours 17859
System Starts _____
Motor Hours 29304

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	30	30	30	30	32	32
PSI	4	5	4	6	4	~~4~~ 3
Point ID	IP-7	IP-8	IP-9			
SCFH	51	30	30			
PSI	~~3~~ 3	3.5	3			

↳ SCFH meter stuck @ 50 when turned off

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5857	8000	N
OIL FILTER	1657	4000	↓
AIR FILTER	3070	4000	
AIR/OIL SEPERATOR	5394	8000	
BELT TENSION	NA ?	1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 1/2/2019

Project No. 12-041 Project Name COR-1200 E. Main Performed By AZM
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 110
CYCLE (psi) 70
RECIEVER (psi) 62
RUN TIME (hours) 23290
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 101
Run Hours 29331
Load Hours 17873
System Starts _____
Motor Hours 29331

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	16	13	10	20	14	20
PSI	3.5	5	4	5.5	4	3
Point ID	IP-7	IP-8	IP-9			
SCFH	90	20	19			
PSI	3	3	3			

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5830	8000	N
OIL FILTER	1830	4000	↓
AIR FILTER	3043	4000	
AIR/OIL SEPERATOR	5367	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 1/16/2019

Project No. 12-041 Project Name COR-1200 E. Main Performed By AZM
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 105
CYCLE (psi) 70
RECIEVER (psi) 55
RUN TIME (hours) 23626
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 97
Run Hours 29400
Load Hours 17915
System Starts _____
Motor Hours 29400

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	25	25	28	26	25	31
PSI	3	4.5	4	5	3.5	3
Point ID	IP-7	IP-8	IP-9			
SCFH	33	30	29			
PSI	3	3	3			

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5761	8000	N
OIL FILTER	1761	4000	
AIR FILTER	2974	4000	
AIR/OIL SEPERATOR	5298	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 1/30/19

Project No. 12-041 Project Name COR-1200 E. Main Performed By AZM
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

* heat is on

AIRSEP Unit

FEED (psi) 100
CYCLE (psi) 68
RECIEVER (psi) 55
RUN TIME (hours) 23956
OXYGEN PURITY (%) _____

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 96
Run Hours 29468
Load Hours 17957
System Starts _____
Motor Hours 29468

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	22	23	31	30	31	35
PSI	4	5	4	6	4	4
Point ID	IP-7	IP-8	IP-9			
SCFH	40	33	33			
PSI	3	3	3			

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5693	8000	N
OIL FILTER	1693	4000	↓
AIR FILTER	2906	4000	
AIR/OIL SEPERATOR	5230	8000	
BELT TENSION		1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 2/15/2019

Project No. 12-041 Project Name COR-1200 E. Main Performed By A.Z.M

Bi-Weekly ✓ Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF

If OFF probable cause: _____

AIRSEP Unit

* heat is on

FEED (psi) 110

CYCLE (psi) 70

RECIEVER (psi) 50

RUN TIME (hours) 24335

OXYGEN PURITY (%) N/A

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 100

Run Hours 29539

Load Hours 17,999

System Starts N/A

Motor Hours 29539

OIL Level: GOOD LOW

amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	23	20	21	25	20	21
PSI	4	5	4.5	6	4	3
Point ID	IP-7	IP-8	IP-9			
SCFH	19	20	20			
PSI	3	3	3			

Points set to 30 SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5622	8000	N
OIL FILTER	1622	4000	
AIR FILTER	2835	4000	
AIR/OIL SEPERATOR	5159	8000	
BELT TENSION	N/A	1000	

TA5 Air Dryer: _____

OXYGEN INJECTION SYSTEM EVALUATION SHEET

Date Work Performed: 3/11/2019

Project No. 12-041 Project Name COR-1200 E. Main Performed By AZM
Bi-Weekly X Monthly _____ Quarterly _____ Maintenance/Repairs _____

System Status on Arrival: (ON) OFF
If OFF probable cause: _____

AIRSEP Unit

FEED (psi) 100
CYCLE (psi) 70
RECIEVER (psi) 53
RUN TIME (hours) 24906
OXYGEN PURITY (%) NA

COMPRESSOR Unit Kaeser SX-6

Air Supply (psi) 96
Run Hours 29661
Load Hours 18076
System Starts NA
Motor Hours 29661

OIL Level: GOOD LOW
amount added: _____

Kaeser FILTER MAT: GOOD or CHG.

BELTS: GOOD or ADJ.

INJECTION BANK

Point ID	IP-1	IP-2	IP-3	IP-4	IP-5	IP-6
SCFH	29	28	30	29	30	27
PSI	4	5	4.5	6	4	4
Point ID	IP-7	IP-8	IP-9			
SCFH	29	29	29			
PSI	3	3.5	3			

Points set to _____ SCFH on departure.

REGULAR MAINTENANCE TASKS:

	Hours before Service is needed	Parts Lifetime Hours	Service Required Yes/No
OIL	5500	8000	N
OIL FILTER	1500	4000	↓
AIR FILTER	2713	4000	
AIR/OIL SEPERATOR	5037	8000	
BELT TENSION	NA	1000	

TA5 Air Dryer: _____

APPENDIX G:

CHANGE OF USE DOCUMENTATION

City of Rochester

ion of
ronmental Quality

City Hall Room 300B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov

April 1, 2020

Site Control Office
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7020
Attn: Ms. Kelly Lewandowski

Re: New York State Department of Environmental Conservation (NYSDEC)
60 Day Advance Notification of Site Change of Use
1200 E. Main St., Rochester NY
NYSDEC Site No. B00129

Dear Ms. Lewandowski:

Please find in the attached, the *60-Day Advance Notification of Site Change of Use* (COU), for the above referenced site, as required by 6NYCRR Part 375-1.11(d) and 375-1.9(f). The City of Rochester has plans to redevelop the property, as well as several adjoining parcels, into a new public safety office, the Rochester Police Department's Goodman Section Office. The project is currently in the late stages of design development and will proceed to construction design in mid-April.

The City of Rochester will retain ownership of the property, consequently this COU notification does not involve change of ownership, change of remedial parties or transfer of the certificate of completion. However, development of the site will involve several physical alterations, re-zoning, property line combinations and other administrative changes that require the review and approval of the NYSDEC.

In an effort to facilitate the review process, I'm providing the comprehensive development design details of the project, as of March 10, 2020, on the accompanying flash-drive. In addition, the Site Plan Review Package (SPRP) is also included which provides further clarification on the proposed new site configuration. Please note, although the Development Design Report (DDR) is in draft, the conceptual model can be considered substantially set.

Briefly, the project plans entail the following changes with respect to, and relevant to the 1200 East Main Street property:

- The 1200 East Main Street parcel will be combined with the adjoining parcels at 1214-1216, 1222, 1228-1230 E. Main Street; and 1-5, 7-9, and 11-15 Laura Street. The entire property will be given a new Tax ID No., surveyed and the new boundaries will be recorded with Monroe County Deeds Office. The new site survey will include the limits of the existing Environmental Easement boundaries and the new parcel will be "flagged" with an Activities Use Restriction (AUL) in the City's Building Information System (BIS). Properties subject to AUL flags cannot be issued Site Plan or Building

Permits without prior review and authorization from the City or NYSDEC, in the case of Environmental Easements.

- In accordance with the DDR and the SPRP, the 1200 E. Main Street parcel use will change from a vacant lot, to an improved lot with new asphalt and limited permeable pavement or landscaped areas along what is currently the eastern side of the parcel. Figure C201 – Site Plan of the SPRP illustrates the new site configuration.

- As of February 2020, the City had completed four (4) quarters of groundwater sampling in accordance with the NYSDEC approved Site Management Plan (February 2019) and the Annual Periodic Review Report is due in June 2020. At that time, the City intends to petition the Department's approval to suspend further groundwater testing based on the favorable groundwater results illustrated throughout the year of post remedial activities at the site. Furthermore, the City will request that all on-site monitoring wells be decommissioned in accordance with DER-10.

The City already has institutional controls in place designed disrupt any potential exposure pathways to contaminated groundwater including: the aforementioned AUL flags; the Department's Environmental Easement; and a City Code restriction on the use of groundwater for drinking. In addition, the City has incorporated the installation of a sub-slab depressurization system (SSDS) into the design of the new section office in order to disrupt any exposure pathways due to soil vapor intrusion (SVI). Prior to construction, an SVI evaluation will be completed in order to properly size and locate the necessary components of the SSDS.

The project design and construction team has completed its due diligence on all other parcels relating to this development. Copies of the Phase I and II Environmental Assessment Reports are included on the enclosed flash-drive. During construction, personnel from the City's Division of Environmental Quality will provide the necessary project oversight to ensure that any site work is completed in strict adherence to the 1200 East Main Street Site Management Plan and the East Main and Laura Street properties Environmental Management Plan.

The City appreciates your prompt consideration and feedback regarding this project, and will continue to inform the NYSDEC of changes or other relevant issues as they impact the Site's Certificate of Completion and the Environmental Easement.

Please feel free to contact me at 585-428-7892 or via e-mail at forbesj@cityofrochester.gov if you have any questions or require additional information.

Regards,

Jane MH Forbes, MPA
Sr. Environmental Specialist
City of Rochester – Division of Environmental Quality
30 Church Street Room 300B
Rochester, NY 14614
585-428-7892 (office)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership
Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: 1200 EAST MAIN STREET **DEC Site ID No.** B00129

II. Contact Information of Person Submitting Notification:

Name: JANE MH FORBES
Address1: CITY OF ROCHESTER, 30 CHURCH STREET ROOM 300B
Address2: ROCHESTER NY 14614
Phone: 585-428-7892 E-mail: forbesj@cityofrochester.gov

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- ☐ Change in Ownership or Change in Remedial Party(ies)
- ☐ Transfer of Certificate of Completion (CoC)
- ☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): Jun 1, 2020

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

GROUNDWATER MONITORING WELLS WILL BE DECOMMISSIONED; THE PROPERTY WILL BE ~~COMBINED WITH SEVERAL ADJOINING PROPERTIES TO THE EAST AND DEVELOPED INTO A NEW~~ CITY OF ROCHESTER POLICE DEPARTMENT SECTION OFFICE; PROPERTY WILL BE REZONED; ~~(REFER TO THE ATTACHED CORRESPONDANCE AND THE DRAFT DESIGN DEVELOPMENT~~ REPORT PROVIDED ON ACCOMPANYING FLASHDRIVE FOR MORE DETAIL).

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

THE CURRENT DESIGN PLANS WILL REQUIRE DECOMMISSIONING OF GW MONITORING WELLS, ~~AND INSTALLATION OF A SUB-SLAB DEPRESSURIZATION SYSTEM BENEATH NEW~~ CONSTRUCTION; THE SMP WILL BE REVISED AND THE REQUIREMENTS OF THE COC AND ENV. EASEMENT WILL RUN WITH THE LAND. ADDITIONAL INSTITUTIONAL AND ENGINEERING CONTROLS ARE DESCRIBED IN THE ATTACHED CORRESPONDANCE. TGHERE WILL BE NO CHANGE OF OWNERSHIP.

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ _____
(Signature) (Date)

_____
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VI. **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____
(Signature) (Date)

_____
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Task Item	Start Date	Completion Date	Prior Completion	Phase Duration
Issued Preliminary Drawings To Planning Commission		12/20/20		
Goodman Public Information Meeting		01/23/20	11/26/19	
Reissued Drawings to Planning Commission		02/06/20	12/11/19	
Traffic Control Board Submission		02/12/20		
QA/QC DD Report	02/25/20	03/09/20		
PRC Meeting		02/26/20		
Issue Zoning Map Amendment Application		03/05/20	12/11/19	
Issue DD Report		03/10/20	12/24/19	
City Review & Approval	03/11/20	03/18/20	01/03/20	
DD Phase Complete (Goodman Section)		**03/18/20**	**01/03/20**	**16 weeks**
Begin CD Phase (Goodman Section)	**03/11/20**		**01/03/20**	
Planning Commission Meeting		04/13/20		
City Council Meeting (Re-Zoning Authorization)		05/12/20		
Zoning Board Meeting		05/21/20		
Planning Commission Meeting (Parking)		06/08/20		
QA/QC CD's	04/06/20	04/16/20		
Issue Final CD's		04/17/20	01/15/20	
City Review & Approval	04/17/20	03/16/20		
CD Phase Complete (Goodman Section)		**04/24/20**	**02/19/20**	**6.5 weeks**
Begin Bid Phase (Goodman Section)	**04/27/20**			
Bid Advertisement Published	04/27/20	06/01/20		**5 weeks**
Pre-bid Meeting	05/07/20			
Bid Opening	05/28/20			
Architect Review Bids / Recommendation	06/01/20	06/05/20		
Bid Recommendation Sent to Purchasing	06/11/20			
Notice of Award	07/13/20			**11 weeks**
BN Phase Complete (Goodman Section)	—	**07/13/20**	**05/11/20**	
Construction Phase (Goodman Section)	**08/10/20**		**05/11/20**	
Notice To Proceed	08/10/20			
Construction	08/10/20	11/08/21		15 Months
Construction Phase Substantially Complete		**11/08/21**		

2.1
PRELIMINARY PROJECT SCHEDULE

Task Item	Start Date	Completion Date	Prior Completion	Phase Duration
Receive Signed Contract	08/02/19	---	---	
Property Acquisition – Goodman Section	07/29/19	10/18/19		**12 weeks**
Project Start Date	**07/29/19**	---	---	
Begin Programming Phase (Lake & Goodman)	**07/29/19**			
Project Kick-off Meeting w/ City	08/20/19	---		
Complete Program Report Lake & Goodman	08/20/19	09/06/19		
Review Meeting w/ City Planning & Zoning		09/06/19		
QA/QC Program Report	09/03/19	09/20/19	09/06/19	
Issue Program Verification Report		09/20/19	09/06/19	
Issue Revised Program Verification Report		10/11/19		
City Review & Approval	09/20/19	10/17/20		
Issue Final Program Verification Report		10/17/20		
Programming Phase - Lake & Goodman Complete		**10/17/19**	**09/11/19**	**11 weeks**
Begin SD Phase (Lake & Goodman Section)	**09/26/19**			
Goodman Property Acquisition Complete		10/18/19	10/01/19	
Complete Site Survey & Mapping Goodman	10/07/19	11/29/19	10/25/19	
Complete Goodman Site Design	10/28/19	TBD		
QA/QC Draft SD Report	11/11/19	11/18/19	11/07/19	
Submit Laura Street Road Closure Application		12/03/19	11/06/19	
Issue Draft SD Report		11/18/19	10/10/19	
City Review & Approval	11/18/19	12/10/19	02/12/20	
Issue Final SD Report		02/12/20		
SD Phase Complete - Lake & Goodman Section		**02/12/20**	**10/16/19**	**20 weeks**
Begin DD Phase - Goodman	**11/25/19**		**11/13/19**	
Goodman Survey & Mapping Complete		12/03/20		
Green Infrastructure Grant Award Notice		12/18/20		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
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June 17, 2020

Jane MH Forbes, MPA
Sr. Environmental Specialist
City of Rochester
Division of Environmental Quality
30 Church Street, Room 300B
Rochester, New York 14614

Re: Change of Use Notification Submittal
1200 East Main Street Site
Site No.: B00129
City of Rochester, Monroe (C)

Dear Ms. Forbes:

The New York State Department of Environmental Conservation (Department) in conjunction with the New York State Department of Health (NYSDOH) have completed a review of the City of Rochester's Change of Use Notification submittal dated April 1, 2020 for the 1200 East Main Street site (Site). Based on the information presented in the Change of Use Notification submittal, the Department is conditionally approving the Change of Use with the following modifications and clarifications.

1. The Site's Site Management Plan must be implemented; in particular, the Excavation Work Plan which details the oversight and management of soil/fill material, fluids, and waste generated at the Site as well as the import material (e.g., soil, stone) to the Site. In addition, the Site's Community Air Monitoring Plan must be implemented for all ground intrusive activities at the Site.

2. The import of soil and backfill material to the Site must be in compliance with the SMP. In addition to the SMP requirements, the import of soil and backfill material to the Site must also be in compliance with the Department's PFAS guidance titled "Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, dated January 2020". The current version of the guidance is attached and the following weblink: https://www.dec.ny.gov/docs/remediation_hudson_pdf/pfassampanaly.pdf

3. In the Change of Use the City of Rochester requested to decommission the 11 on-site groundwater monitoring wells and terminate groundwater sampling requirement. The Department does acknowledge that there has been a significant reduction in groundwater contamination at the Site. With that said and given the extensive development at the Site and directly adjacent to the Site, the Department cannot at this time grant the request. The Department is amendable to a reduction in the number of groundwater monitoring wells at the Site as well as a reducing the groundwater sampling frequency from quarterly to annually. The groundwater sampling will be annually for at least 2 years.

The Department is granting the City of Rochester permission to decommission the following groundwater monitoring wells: MW-2, MW-4, MW-9R, MW-10, MW-15R, and MW-16. The Department understands that the groundwater monitoring wells will be decommissioned in accordance with CP-43: Commissioner Policy on Monitoring Well Decommissioning.

The Department understands that the following groundwater monitoring wells will either be protected during the development of the Site or will be re-installed once development has been completed: MW-1, MW-3, MW-7R, MW-8, and MW-11. The Department understands that the groundwater monitoring wells will be re-installed consistent with the current groundwater monitoring well intervals.

4. The Department understands that the Site Management Plan will be revised and submitted to the State for review and approval.

If you have any questions or concerns regarding this letter, or need further assistance with the Site, please feel free to contact me at 585-226-5354 or via e-mail at charlotte.theobald@dec.ny.gov.

Sincerely,

Charlotte B. Theobald

Charlotte B. Theobald
Project Manager
Assistant Engineer

ec:
Anne Spaulding (City of Rochester)
Joseph Biondolillo (City of Rochester)
Justin Deming (NYS. Dept. of Health – Albany)
Melissa Doroski (NYS Dept. of Health - Albany)
John Frazer (MCHD)
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David Pratt (NYSDEC)
Todd Caffoe (NYSDEC)

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

GUIDELINES FOR SAMPLING AND ANALYSIS OF PFAS

Under NYSDEC's Part 375 Remedial Programs

January 2020

www.dec.ny.gov

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ERRATA SHEET for

Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Program
Issued January 17, 2020

Citation and Page Number	Current Text	Corrected Text	Date

January 2020

Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs

Objective

New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) performs or oversees sampling of environmental media and subsequent analysis of PFAS as part of remedial programs implemented under 6 NYCRR Part 375. To ensure consistency in sampling, analysis and reporting of PFAS, DER has developed this document to summarize procedures and update previous DER technical guidance pertaining to PFAS.

Applicability

Sampling for PFAS has already been initiated at numerous sites under DER-approved work plans, in accordance with specified procedures. All future work plans should include PFAS sampling and analysis procedures that conform to the guidelines provided herein.

As part of a site investigation or remedial action compliance program, whenever samples of potentially affected media are collected and analyzed for the standard Target Analyte List/Target Compound List (TAL/TCL), PFAS analysis should also be performed. Potentially affected media can include soil, groundwater, surface water, and sediment. Based upon the potential for biota to be affected, biota sampling and analysis for PFAS may also be warranted as determined pursuant to a Fish and Wildlife Impact Analysis. Soil vapor sampling for PFAS is not required.

Field Sampling Procedures

DER-10 specifies technical guidance applicable to DER's remedial programs. Given the prevalence and use of PFAS, DER has developed "best management practices" specific to sampling for PFAS. As specified in DER-10 Chapter 2, quality assurance procedures are to be submitted with investigation work plans. Typically, these procedures are incorporated into a work plan, or submitted as a stand-alone document (e.g., a Quality Assurance Project Plan). Quality assurance guidelines for PFAS are listed in Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS.

Field sampling for PFAS performed under DER remedial programs should follow the appropriate procedures outlined for soils, sediments or other solids (Appendix B), non-potable groundwater (Appendix C), surface water (Appendix D), public or private water supply wells (Appendix E), and fish tissue (Appendix F).

QA/QC samples (e.g. duplicates, MS/MSD) should be collected as specified in DER-10, Section 2.3(c). For sampling equipment coming in contact with aqueous samples only, rinsate or equipment blanks should be collected. Equipment blanks should be collected at a minimum frequency of one per day or one per twenty samples, whichever is more frequent.

Data Assessment and Application to Site Cleanup

Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFAS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10.

Water Sample Results

PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt). In addition, further assessment of water may be warranted if either of the following screening levels are met:

a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or
b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L

If PFAS are identified as a contaminant of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.

Soil Sample Results

The extent of soil contamination for purposes of delineation and remedy selection should be determined by having certain soil samples tested by Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed for PFAS. Soil exhibiting SPLP results above 70 ppt for either PFOA or PFOS (individually or combined) are to be evaluated during the cleanup phase.

Sites in the site management phase should evaluate for PFAS to determine if modification to any components of the SMP is necessary (e.g., monitoring for PFAS, upgrading treatment facilities, or performing an RSO).

Testing for Imported Soil

Soil imported to a site for use in a soil cap, soil cover, or as backfill is to be tested for PFAS in general conformance with DER-10, Section 5.4(e) for the *PFAS Analyte List* (Appendix F) using the analytical procedures discussed below and the criteria in DER-10 associated with SVOCs.

If PFOA or PFOS is detected in any sample at or above 1 µg/kg, then soil should be tested by SPLP and the leachate analyzed for PFAS. If the SPLP results exceed 10 ppt for either PFOA or PFOS (individually) then the source of backfill should be rejected, unless a site-specific exemption is provided by DER. SPLP leachate criteria is based on the Maximum Contaminant Levels proposed for drinking water by New York State's Department of Health, this value may be updated based on future Federal or State promulgated regulatory standards. Remedial parties have the option of analyzing samples concurrently for both PFAS in soil and in the SPLP leachate to minimize project delays. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.

Analysis and Reporting

As of January 2020, the United States Environmental Protection Agency (EPA) does not have a validated method for analysis of PFAS for media commonly analyzed under DER remedial programs (non-potable waters, solids). DER has developed the following guidelines to ensure consistency in analysis and reporting of PFAS.

The investigation work plan should describe analysis and reporting procedures, including laboratory analytical procedures for the methods discussed below. As specified in DER-10 Section 2.2, laboratories should provide a full Category B deliverable. In addition, a Data Usability Summary Report (DUSR) should be prepared by an independent, third party data validator. Electronic data submissions should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html.

DER has developed a *PFAS Analyte List* (Appendix F) for remedial programs to understand the nature of contamination at sites. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. If lab and/or matrix specific issues are encountered for any analytes, the DER project manager, in consultation with the DER chemist, will make case-by-case decisions as to whether certain analytes may be temporarily or permanently discontinued from analysis at each site. As with other contaminants that are analyzed for at a site, the *PFAS Analyte List* may be refined for future sampling events based on investigative findings.

Routine Analysis

Currently, New York State Department of Health's Environmental Laboratory Approval Program (ELAP) does not offer certification for PFAS in matrices other than finished drinking water. However, laboratories analyzing environmental samples for PFAS (e.g., soil, sediments, and groundwater) under DER's Part 375 remedial programs need to hold ELAP certification for PFOA and PFOS in drinking water by EPA Method 537.1 or ISO 25101. Laboratories should adhere to the guidelines and criteria set forth in the DER's laboratory guidelines for PFAS in non-potable water and solids (Appendix H - Laboratory Guidelines for Analysis of PFAS in Non-Potable Water and Solids). Data review guidelines were developed by DER to ensure data comparability and usability (Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids).

LC-MS/MS analysis for PFAS using methodologies based on EPA Method 537.1 is the procedure to use for environmental samples. Isotope dilution techniques should be utilized for the analysis of PFAS in all media. Reporting limits for PFOA and PFOS in aqueous samples should not exceed 2 ng/L. Reporting limits for PFOA and PFOS in solid samples should not exceed 0.5 µg/kg. Reporting limits for all other PFAS in aqueous and solid media should be as close to these limits as possible. If laboratories indicate that they are not able to achieve these reporting limits for the entire *PFAS Analyte List*, site-specific decisions regarding acceptance of elevated reporting limits for specific PFAS can be made by the DER project manager in consultation with the DER chemist.

Additional Analysis

Additional laboratory methods for analysis of PFAS may be warranted at a site, such as the Synthetic Precipitation Leaching Procedure (SPLP) and Total Oxidizable Precursor Assay (TOP Assay). Commercially methods are also available for biota and air samples.

SPLP is a technique used to determine the mobility of chemicals in liquids, soils and wastes, and may be useful in determining the need for addressing PFAS-containing material as part of the remedy. SPLP by EPA Method 1312 should be used unless otherwise specified by the DER project manager in consultation with the DER chemist.

Impacted materials can be made up of PFAS that are not analyzable by routine analytical methodology. A TOP Assay can be utilized to conceptualize the amount and type of oxidizable PFAS which could be liberated in the environment, which approximates the maximum concentration of perfluoroalkyl substances that could be generated if all polyfluoroalkyl substances were oxidized. For example, some polyfluoroalkyl substances may degrade or transform to form perfluoroalkyl substances (such as PFOA or PFOS), resulting in an increase in perfluoroalkyl substance concentrations as contaminated groundwater moves away from a source. The TOP Assay converts, through oxidation, polyfluoroalkyl substances (precursors) into perfluoroalkyl substances that can be detected by routine analytical methodology.

Please note that TOP Assay analysis of highly-contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances.

Commercial laboratories have adopted methods which allow for the quantification of targeted PFAS in air and biota. The EPA's Office of Research and Development (ORD) is currently developing methods which allow for air emissions characterization of PFAS, including both targeted and non-targeted analysis of PFAS. Consult with the DER project manager and the DER chemist for assistance on analyzing biota/tissue and air samples.

Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS

The following guidelines (general and PFAS-specific) can be used to assist with the development of a QAPP for projects within DER involving sampling and analysis of PFAS.

General Guidelines in Accordance with DER-10

- Document/work plan section title – Quality Assurance Project Plan
- Summarize project scope, goals, and objectives
- Provide project organization including names and resumes of the project manager, Quality Assurance Officer (QAO), field staff, and Data Validator
    - The QAO should not have another position on the project, such as project or task manager, that involves project productivity or profitability as a job performance criterion
- List the ELAP-approved lab(s) to be used for analysis of samples
- Include a site map showing sample locations
- Provide detailed sampling procedures for each matrix
- Include Data Quality Usability Objectives
- List equipment decontamination procedures
- Include an "Analytical Methods/Quality Assurance Summary Table" specifying:
    - Matrix type
    - Number or frequency of samples to be collected per matrix
    - Number of field and trip blanks per matrix
    - Analytical parameters to be measured per matrix
    - Analytical methods to be used per matrix with minimum reporting limits
    - Number and type of matrix spike and matrix spike duplicate samples to be collected
    - Number and type of duplicate samples to be collected
    - Sample preservation to be used per analytical method and sample matrix
    - Sample container volume and type to be used per analytical method and sample matrix
    - Sample holding time to be used per analytical method and sample matrix
- Specify Category B laboratory data deliverables and preparation of a DUSR

Specific Guidelines for PFAS

- Include in the text that sampling for PFAS will take place
- Include in the text that PFAS will be analyzed by LC-MS/MS for PFAS using methodologies based on EPA Method 537.1
- Include the list of PFAS compounds to be analyzed (*PFAS Analyte List*)
- Include the laboratory SOP for PFAS analysis
- List the minimum method-achievable Reporting Limits for PFAS
    - Reporting Limits should be less than or equal to:
        - Aqueous – 2 ng/L (ppt)
        - Solids – 0.5 µg/kg (ppb)
- Include the laboratory Method Detection Limits for the PFAS compounds to be analyzed
- Laboratory should have ELAP certification for PFOA and PFOS in drinking water by EPA Method 537.1, EPA Method 533, or ISO 25101
- Include detailed sampling procedures
    - Precautions to be taken
    - Pump and equipment types
    - Decontamination procedures
    - Approved materials only to be used
- Specify that regular ice only will be used for sample shipment
- Specify that equipment blanks should be collected at a minimum frequency of 1 per day per matrix

Appendix B - Sampling Protocols for PFAS in Soils, Sediments and Solids

General

The objective of this protocol is to give general guidelines for the collection of soil, sediment and other solid samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Containers

Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in to contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel spoon
- stainless steel bowl
- steel hand auger or shovel without any coatings

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification. Previous results of "non-detect" for PFAS from the UCMR3 water supply testing program are acceptable as verification.

Sampling Techniques

Sampling is often conducted in areas where a vegetative turf has been established. In these cases, a pre-cleaned trowel or shovel should be used to carefully remove the turf so that it may be replaced at the conclusion of sampling. Surface soil samples (e.g. 0 to 6 inches below surface) should then be collected using a pre-cleaned, stainless steel spoon. Shallow subsurface soil samples (e.g. 6 to ~36 inches below surface) may be collected by digging a hole using a pre-cleaned hand auger or shovel. When the desired subsurface depth is reached, a pre-cleaned hand auger or spoon shall be used to obtain the sample.

When the sample is obtained, it should be deposited into a stainless steel bowl for mixing prior to filling the sample containers. The soil should be placed directly into the bowl and mixed thoroughly by rolling the material into the middle until the material is homogenized. At this point the material within the bowl can be placed into the laboratory provided container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A soil log or sample log shall document the location of the sample/borehole, depth of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix C - Sampling Protocols for PFAS in Monitoring Wells

General

The objective of this protocol is to give general guidelines for the collection of groundwater samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including plumbers tape and sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel inertia pump with HDPE tubing
- peristaltic pump equipped with HDPE tubing and silicone tubing
- stainless steel bailer with stainless steel ball
- bladder pump (identified as PFAS-free) with HDPE tubing

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Monitoring wells should be purged in accordance with the sampling procedure (standard/volume purge or low flow purge) identified in the site work plan, which will determine the appropriate time to collect the sample. If sampling using standard purge techniques, additional purging may be needed to reduce turbidity levels, so samples contain a limited amount of sediment within the sample containers. Sample containers that contain sediment may cause issues at the laboratory, which may result in elevated reporting limits and other issues during the sample preparation that can compromise data usability. Sampling personnel should don new nitrile gloves prior to sample collection due to the potential to contact PFAS containing items (not related to the sampling equipment) during the purging activities.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank every day that sampling is conducted and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Additional equipment blank samples may be collected to assess other equipment that is utilized at the monitoring well
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A purge log shall document the location of the sample, sampling equipment, groundwater parameters, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix D - Sampling Protocols for PFAS in Surface Water

General

The objective of this protocol is to give general guidelines for the collection of surface water samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel cup

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Where conditions permit, (e.g. creek or pond) sampling devices (e.g. stainless steel cup) should be rinsed with site medium to be sampled prior to collection of the sample. At this point the sample can be collected and poured into the sample container.

If site conditions permit, samples can be collected directly into the laboratory container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank every day that sampling is conducted and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A sample log shall document the location of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix E - Sampling Protocols for PFAS in Private Water Supply Wells

General

The objective of this protocol is to give general guidelines for the collection of water samples from private water supply wells (with a functioning pump) for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Drinking water samples collected using this protocol are intended to be analyzed for PFAS by ISO Method 25101. The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials (e.g. plumbers tape), including sample bottle cap liners with a PTFE layer.

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Locate and assess the pressure tank and determine if any filter units are present within the building. Establish the sample location as close to the well pump as possible, which is typically the spigot at the pressure tank. Ensure sampling equipment is kept clean during sampling as access to the pressure tank spigot, which is likely located close to the ground, may be obstructed and may hinder sample collection.

Prior to sampling, a faucet downstream of the pressure tank (e.g., wash room sink) should be run until the well pump comes on and a decrease in water temperature is noted which indicates that the water is coming from the well. If the homeowner is amenable, staff should run the water longer to purge the well (15+ minutes) to provide a sample representative of the water in the formation rather than standing water in the well and piping system including the pressure tank. At this point a new pair of nitrile gloves should be donned and the sample can be collected from the sample point at the pressure tank.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- If equipment was used, collect one equipment blank every day that sampling is conducted and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A sample log shall document the location of the private well, sample point location, owner contact information, sampling equipment, purge duration, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate and available (e.g. well construction, pump type and location, yield, installation date). Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appendix F - Sampling Protocols for PFAS in Fish

This appendix contains a copy of the latest guidelines developed by the Division of Fish and Wildlife (DFW) entitled “General Fish Handling Procedures for Contaminant Analysis” (Ver. 8).

Procedure Name: General Fish Handling Procedures for Contaminant Analysis

Number: FW-005

Purpose: This procedure describes data collection, fish processing and delivery of fish collected for contaminant monitoring. It contains the chain of custody and collection record forms that should be used for the collections.

Organization: Environmental Monitoring Section
Bureau of Ecosystem Health
Division of Fish and Wildlife (DFW)
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, New York 12233-4756

Version: 8

Previous Version Date: 21 March 2018

Summary of Changes to this Version: Updated bureau name to Bureau of Ecosystem Health. Added direction to list the names of all field crew on the collection record. Minor formatting changes on chain of custody and collection records.

Originator or Revised by: Wayne Richter, Jesse Becker

Date: 26 April 2019

Quality Assurance Officer and Approval Date: Jesse Becker, 26 April 2019

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GENERAL FISH HANDLING PROCEDURES FOR CONTAMINANT ANALYSES

A. Original copies of all continuity of evidence (i.e., Chain of Custody) and collection record forms must accompany delivery of fish to the lab. A copy shall be directed to the Project Leader or as appropriate, Wayne Richter. All necessary forms will be supplied by the Bureau of Ecosystem Health. Because some samples may be used in legal cases, it is critical that each section is filled out completely. Each Chain of Custody form has three main sections:

   1. The top box is to be filled out **and signed** by the person responsible for the fish collection (e.g., crew leader, field biologist, researcher). This person is responsible for delivery of the samples to DEC facilities or personnel (e.g., regional office or biologist).

   2. The second section is to be filled out **and signed** by the person responsible for the collections while being stored at DEC, before delivery to the analytical lab. This may be the same person as in (1), but it is still required that they complete the section. Also important is the **range of identification numbers** (i.e., tag numbers) included in the sample batch.

   3. Finally, the bottom box is to record any transfers between DEC personnel and facilities. Each subsequent transfer should be **identified, signed, and dated**, until laboratory personnel take possession of the fish.

B. The following data are required on each **Fish Collection Record** form:

   1. Project and Site Name.

   2. DEC Region.

   3. All personnel (and affiliation) involved in the collection.

   4. Method of collection (gill net, hook and line, etc.)

   5. Preservation Method.

C. The following data are to be taken on each fish collected and recorded on the **Fish Collection Record** form:

   1. Tag number - Each specimen is to be individually jaw tagged at time of collection with a unique number. Make sure the tag is turned out so that the number can be read without opening the bag. Use tags in sequential order. For small fish or composite samples place the tag inside the bag with the samples. The Bureau of Ecosystem Health can supply the tags.

   2. Species identification (please be explicit enough to enable assigning genus and species). Group fish by species when processing.

   3. Date collected.

   4. Sample location (waterway and nearest prominent identifiable landmark).

   5. Total length (nearest mm or smallest sub-unit on measuring instrument) and weight (nearest g or

smallest sub-unit of weight on weighing instrument). Take all measures as soon as possible with calibrated, protected instruments (e.g. from wind and upsets) and prior to freezing.

6. Sex - fish may be cut enough to allow sexing or other internal investigation, but do not eviscerate. Make any incision on the right side of the belly flap or exactly down the midline so that a left-side fillet can be removed.

D. General data collection recommendations:

1. It is helpful to use an ID or tag number that will be unique. It is best to use metal striped bass or other uniquely numbered metal tags. If uniquely numbered tags are unavailable, values based on the region, water body and year are likely to be unique: for example, R7CAY11001 for Region 7, Cayuga Lake, 2011, fish 1. If the fish are just numbered 1 through 20, we have to give them new numbers for our database, making it more difficult to trace your fish to their analytical results and creating an additional possibility for errors.

2. Process and record fish of the same species sequentially. Recording mistakes are less likely when all fish from a species are processed together. Starting with the bigger fish species helps avoid missing an individual.

3. If using Bureau of Ecosystem Health supplied tags or other numbered tags, use tags in sequence so that fish are recorded with sequential Tag Numbers. This makes data entry and login at the lab and use of the data in the future easier and reduces keypunch errors.

4. Record length and weight as soon as possible after collection and before freezing. Other data are recorded in the field upon collection. An age determination of each fish is optional, but if done, it is recorded in the appropriate "Age" column.

5. For composite samples of small fish, record the number of fish in the composite in the Remarks column. Record the length and weight of each individual in a composite. All fish in a composite sample should be of the same species and members of a composite should be visually matched for size.

6. Please submit photocopies of topographic maps or good quality navigation charts indicating sampling locations. GPS coordinates can be entered in the Location column of the collection record form in addition to or instead for providing a map. These records are of immense help to us (and hopefully you) in providing documented location records which are not dependent on memory and/or the same collection crew. In addition, they may be helpful for contaminant source trackdown and remediation/control efforts of the Department.

7. When recording data on fish measurements, it will help to ensure correct data recording for the data recorder to call back the numbers to the person making the measurements.

E. Each fish is to be placed in its own individual plastic bag. For small fish to be analyzed as a composite, put all of the fish for one composite in the same bag but use a separate bag for each composite. It is important to individually bag the fish to avoid difficulties or cross contamination when processing the fish for chemical analysis. Be sure to include the fish's tag number inside the bag, preferably attached to the fish with the tag number turned out so it can be read. Tie or otherwise secure the bag closed. **The Bureau of Ecosystem Health will supply the bags.** If necessary, food grade bags may be procured from a suitable vendor (e.g., grocery store). It is preferable to redundantly label each bag with a manila tag tied between the knot and the body of the bag. This tag should be labeled with the project name, collection location, tag number, collection date, and fish species. If scales are collected, the scale envelope should be labeled with

the same information.

F. Groups of fish, by species, are to be placed in one large plastic bag per sampling location. **The Bureau of Ecosystem Health will supply the larger bags.** Tie or otherwise secure the bag closed. Label the site bag with a manila tag tied between the knot and the body of the bag. The tag should contain: project, collection location, collection date, species and **tag number ranges**. Having this information on the manila tag enables lab staff to know what is in the bag without opening it.

G. Do not eviscerate, fillet or otherwise dissect the fish unless specifically asked to. If evisceration or dissection is specified, the fish must be cut along the exact midline or on the right side so that the left side fillet can be removed intact at the laboratory. If filleting is specified, the procedure for taking a standard fillet (SOP PREPLAB 4) must be followed, including removing scales.

H. Special procedures for PFAS: Unlike legacy contaminants such as PCBs, which are rarely found in day to day life, PFAS are widely used and frequently encountered. Practices that avoid sample contamination are therefore necessary. While no standard practices have been established for fish, procedures for water quality sampling can provide guidance. The following practices should be used for collections when fish are to be analyzed for PFAS:

No materials containing Teflon.
No Post-it notes.
No ice packs; only water ice or dry ice.
Any gloves worn must be powder free nitrile.
No Gore-Tex or similar materials (Gore-Tex is a PFC with PFOA used in its manufacture).
No stain repellent or waterproof treated clothing; these are likely to contain PFCs.
Avoid plastic materials, other than HDPE, including clipboards and waterproof notebooks.
Wash hands after handling any food containers or packages as these may contain PFCs.
Keep pre-wrapped food containers and wrappers isolated from fish handling.
Wear clothing washed at least six times since purchase.
Wear clothing washed without fabric softener.
Staff should avoid cosmetics, moisturizers, hand creams and similar products on the day of sampling as many of these products contain PFCs (Fujii et al. 2013). Sunscreen or insect repellent should not contain ingredients with "fluor" in their name. Apply any sunscreen or insect repellent well downwind from all materials. Hands must be washed after touching any of these products.

I. All fish must be kept at a temperature <45° F (<8° C) immediately following data processing. As soon as possible, freeze at -20° C ± 5° C. Due to occasional freezer failures, daily freezer temperature logs are required. The freezer should be locked or otherwise secured to maintain chain of custody.

J. In most cases, samples should be delivered to the Analytical Services Unit at the Hale Creek field station. Coordinate delivery with field station staff and send copies of the collection records, continuity of evidence forms and freezer temperature logs to the field station. For samples to be analyzed elsewhere, non-routine collections or other questions, contact Wayne Richter, Bureau of Ecosystem Health, NYSDEC, 625 Broadway, Albany, New York 12233-4756, 518-402-8974, or the project leader about sample transfer. Samples will then be directed to the analytical facility and personnel noted on specific project descriptions.

K. A recommended equipment list is at the end of this document.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name _____ DEC Region _____

Collections made by (include all crew) _____

Sampling Method: □Electrofishing □Gill netting □Trap netting □Trawling □Seining □Angling □Other _____

Preservation Method: □Freezing □Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH ( )	WEIGHT ( )	REMARKS

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, _____, of _____ collected the
(Print Name) (Print Business Address)

following on _____, 20____ from _____
(Date) (Water Body)

in the vicinity of _____
(Landmark, Village, Road, etc.)

Town of _____, in _____ County.

Item(s) _____

_____

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on _____, 20_____.

_____ _____
Signature Date

I, _____, received the above mentioned sample(s) on the date specified and assigned identification number(s) _____ to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

_____ _____
Signature Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name)	TIME & DATE	REMARKS
SIGNATURE	UNIT	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

NOTICE OF WARRANTY

By signature to the chain of custody (reverse), the signatory warrants that the information provided is truthful and accurate to the best of his/her ability. The signatory affirms that he/she is willing to testify to those facts provided and the circumstances surrounding the same. Nothing in this warranty or chain of custody negates responsibility nor liability of the signatories for the truthfulness and accuracy of the statements provided.

HANDLING INSTRUCTIONS

On day of collection, collector(s) name(s), address(es), date, geographic location of capture (attach a copy of topographic map or navigation chart), species, number kept of each species, and description of capture vicinity (proper noun, if possible) along with name of Town and County must be indicated on reverse.

Retain organisms in manila tagged plastic bags to avoid mixing capture locations. Note appropriate information on each bag tag.

Keep samples as cool as possible. Put on ice if fish cannot be frozen within 12 hours. If fish are held more than 24 hours without freezing, they will not be retained or analyzed.

Initial recipient (either DEC or designated agent) of samples from collector(s) is responsible for obtaining and recording information on the collection record forms which will accompany the chain of custody. This person will seal the container using packing tape and writing his signature, the time and the date across the tape onto the container with indelible marker. Any time a seal is broken, for whatever purpose, the incident must be recorded on the Chain of Custody (reason, time, and date) in the purpose of transfer block. Container then is resealed using new tape and rewriting signature, with time and date.

EQUIPMENT LIST

Scale or balance of appropriate capacity for the fish to be collected.

Fish measuring board.

Plastic bags of an appropriate size for the fish to be collected and for site bags.

Individually numbered metal tags for fish.

Manila tags to label bags.

Small envelops, approximately 2” x 3.5”, if fish scales are to be collected.

Knife for removing scales.

Chain of custody and fish collection forms.

Clipboard.

Pens or markers.

Paper towels.

Dish soap and brush.

Bucket.

Cooler.

Ice.

Duct tape.

Appendix G – PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonates	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluoroalkyl carboxylates	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7
Fluorinated Telomer Sulfonates	6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2
	8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4
Perfluorooctane-sulfonamides	Perfluroroctanesulfonamide	FOSA	754-91-6
Perfluorooctane-sulfonamidoacetic acids	N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSAA	2991-50-6

Appendix H - Laboratory Guidelines for Analysis of PFAS in Non-Potable Water and Solids

General

New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) developed the following guidelines for laboratories analyzing environmental samples for PFAS under DER programs. If laboratories cannot adhere to the following guidelines, they should contact DER's Quality Assurance Officer, Dana Maikels, at dana.maikels@dec.ny.gov prior to analysis of samples.

Isotope Dilution

Isotope dilution techniques should be utilized for the analysis of PFAS in all media.

Extraction

For water samples, the entire sample bottle should be extracted, and the sample bottle rinsed with appropriate solvent to remove any residual PFAS.

For samples with high particulates, the samples should be handled in one of the following ways:

1. Spike the entire sample bottle with isotope dilution analytes (IDAs) prior to any sample manipulation. The sample can be passed through the SPE and if it clogs, record the volume that passed through.
2. If the sample contains too much sediment to attempt passing it through the SPE cartridge, the sample should be spiked with isotope dilution analytes, centrifuged and decanted.
3. If higher reporting limits are acceptable for the project, the sample can be diluted by taking a representative aliquot of the sample. If isotope dilution analytes will be diluted out of the sample, they can be added after the dilution. The sample should be homogenized prior to taking an aliquot.

If alternate sample extraction procedures are used, please contact the DER remedial program chemist prior to employing. Any deviations in sample preparation procedures should be clearly noted in the case narrative.

Signal to Noise Ratio

For all target analyte ions used for quantification, signal to noise ratio should be 3:1 or greater.

Blanks

There should be no detections in the method blanks above the reporting limits.

Ion Transitions

The ion transitions listed below should be used for the following PFAS:

PFOA	413 > 369
PFOS	499 > 80
PFHxS	399 > 80
PFBS	299 > 80
6:2 FTS	427 > 407
8:2 FTS	527 > 507
N-EtFOSAA	584 > 419
N-MeFOSAA	570 > 419

Branched and Linear Isomers

Standards containing both branched and linear isomers should be used when standards are commercially available. Currently, quantitative standards are available for PFHxS, PFOS, NMeFOSAA, and NEtFOSAA. As more standards become available, they should be incorporated in to the method. All isomer peaks present in the standard should be integrated and the areas summed. Samples should be integrated in the same manner as the standards.

Since a quantitative standard does not exist for branched isomers of PFOA, the instrument should be calibrated using just the linear isomer and a technical (qualitative) PFOA standard should be used to identify the retention time of the branched PFOA isomers in the sample. The total response of PFOA branched and linear isomers should be integrated in the samples and quantitated using the calibration curve of the linear standard.

Secondary Ion Transition Monitoring

Quantifier and qualifier ions should be monitored for all target analytes (PFBA and PFPeA are exceptions). The ratio of quantifier ion response to qualifier ion response should be calculated for each target analyte and the ratio compared to standards. Lab derived criteria should be used to determine if the ratios are acceptable.

Reporting

Detections below the reporting limit should be reported and qualified with a J qualifier.

The acid form of PFAS analytes should be reported. If the salt form of the PFAS was used as a stock standard, the measured mass should be corrected to report the acid form of the analyte.

Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids

General

These guidelines are intended to be used for the validation of PFAS analytical results for projects within the Division of Environmental Remediation (DER) as well as aid in the preparation of a data usability summary report. Data reviewers should understand the methodology and techniques utilized in the analysis. Consultation with the end user of the data may be necessary to assist in determining data usability based on the data quality objectives in the Quality Assurance Project Plan. A familiarity with the laboratory's Standard Operating Procedure may also be needed to fully evaluate the data. If you have any questions, please contact DER's Quality Assurance Officer, Dana Maikels, at dana.maikels@dec.ny.gov.

Preservation and Holding Time

Samples should be preserved with ice to a temperature of less than 6°C upon arrival at the lab. The holding time is 14 days to extraction for aqueous and solid samples. The time from extraction to analysis for aqueous samples is 28 days and 40 days for solids.

Temperature greatly exceeds 6ºC upon arrival at the lab*	Use professional judgement to qualify detects and non-detects as estimated or rejected
Holding time exceeding 28 days to extraction	Use professional judgement to qualify detects and non-detects as estimated or rejected if holding time is grossly exceeded

*Samples that are delivered to the lab immediately after sampling may not meet the thermal preservation guidelines. Samples are considered acceptable if they arrive on ice or an attempt to chill the samples is observed.

Initial Calibration

The initial calibration should contain a minimum of five standards for linear fit and six standards for a quadratic fit. The relative standard deviation (RSD) for a quadratic fit calibration should be less than 20%. Linear fit calibration curves should have an R^2 value greater than 0.990.

The low-level calibration standard should be within 50% - 150% of the true value, and the mid-level calibration standard within 70% - 130% of the true value.

%RSD >20%	J flag detects and UJ non detects
R^2 >0.990	J flag detects and UJ non detects
Low-level calibration check <50% or >150%	J flag detects and UJ non detects
Mid-level calibration check <70% or >130%	J flag detects and UJ non detects

Initial Calibration Verification

An initial calibration verification (ICV) standard should be from a second source (if available). The ICV should be at the same concentration as the mid-level standard of the calibration curve.

ICV recovery <70% or >130%	J flag detects and non-detects

Continuing Calibration Verification

Continuing calibration verification (CCV) checks should be analyzed at a frequency of one per ten field samples. If CCV recovery is very low, where detection of the analyte could be in question, ensure a low level CCV was analyzed and use to determine data quality.

CCV recovery <70 or >130%	J flag results

Blanks

There should be no detections in the method blanks above the reporting limits. Equipment blanks, field blanks, rinse blanks etc. should be evaluated in the same manner as method blanks. Use the most contaminated blank to evaluate the sample results.

Blank Result	Sample Result	Qualification
Any detection	<Reporting limit	Qualify as ND at reporting limit
Any detection	>Reporting Limit and >10x the blank result	No qualification
>Reporting limit	>Reporting limit and <10x blank result	J+ biased high

Field Duplicates

A blind field duplicate should be collected at rate of one per twenty samples. The relative percent difference (RPD) should be less than 30% for analyte concentrations greater than two times the reporting limit. Use the higher result for final reporting.

RPD >30%	Apply J qualifier to parent sample

Lab Control Spike

Lab control spikes should be analyzed with each extraction batch or one for every twenty samples. In the absence of lab derived criteria, use 70% - 130% recovery criteria to evaluate the data.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects

Matrix Spike/Matrix Spike Duplicate

One matrix spike and matrix spike duplicate should be collected at a rate of one per twenty samples. Use professional judgement to reject results based on out of control MS/MSD recoveries.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only
RPD >30%	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only

Extracted Internal Standards (Isotope Dilution Analytes)

Problematic analytes (e.g. PFBA, PFPeA, fluorotelomer sulfonates) can have wider recoveries without qualification. Qualify corresponding native compounds with a J flag if outside of the range.

Recovery <50% or >150%	Apply J qualifier
Recovery <25% or >150% for poor responding analytes	Apply J qualifier
Isotope Dilution Analyte (IDA) Recovery <10%	Reject results

Secondary Ion Transition Monitoring

Quantifier and qualifier ions should be monitored for all target analytes (PFBA and PFPeA are exceptions). The ratio of quantifier ion response to qualifier ion response should be calculated from the standards for each target analyte. Lab derived criteria should be used to determine if the ratios are acceptable. If the ratios fall outside of the laboratory criteria, qualify results as an estimated maximum concentration.

Signal to Noise Ratio

The signal to noise ratio for the quantifier ion should be at least 3:1. If the ratio is less than 3:1, the peak is discernable from the baseline noise and symmetrical, the result can be reported. If the peak appears to be baseline noise and/or the shape is irregular, qualify the result as tentatively identified.

Branched and Linear Isomers

Observed branched isomers in the sample that do not have a qualitative or quantitative standard should be noted and the analyte should be qualified as biased low in the final data review summary report. Note: The branched isomer peak should also be present in the secondary ion transition.

Reporting Limits

If project-specific reporting limits were not met, please indicate that in the report along with the reason (e.g. over dilution, dilution for non-target analytes, high sediment in aqueous samples).

Peak Integrations

Target analyte peaks should be integrated properly and consistently when compared to standards. Ensure branched isomer peaks are included for PFAS where standards are available. Inconsistencies should be brought to the attention of the laboratory or identified in the data review summary report.