



Global Operations, Environment, Health & Safety

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Transmitted Electronically

March 17, 2023

Mr. Richard Fisher
U.S. Environmental Protection Agency
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**Re: GE-Pittsfield/Housatonic River Site
On-Plant Consolidation Areas (GECD210/220) and Groundwater Management Area 4
(GECD340)
GMA 4 Long-Term Monitoring Program / OPCA Post-Closure Groundwater Monitoring
Event Evaluation Report for Fall 2022**

Dear Mr. Fisher:

Enclosed is the General Electric Company's (GE's) *GMA 4 Long-Term Monitoring Program / OPCA Post-Closure Groundwater Monitoring Event Evaluation Report – Fall 2022* for Groundwater Management Area (GMA) 4 (also known as the Plant Site 3 GMA) and the Hill 78 and Building 71 On-Plant Consolidation Areas (OPCAs). As required by Condition 1 of the Environmental Protection Agency's (EPA) May 23, 2017 conditional approval of GE's On-Plant Consolidation Areas, *Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2016* and Condition 1 of EPA's May 23, 2017 conditional approval of GE's *Long-Term Monitoring Event Evaluation Report - Fall 2016*, the enclosed report combines the GMA 4 long-term program report with the OPCA post-closure groundwater monitoring report.

The enclosed report summarizes the activities performed under the GMA 4 long-term groundwater monitoring program and the OPCA post-closure groundwater monitoring program in Fall 2022 (July through December). It includes the results of the latest round of sampling and analysis of groundwater from GMA 4 and OPCA monitoring wells and an assessment of those results. Please feel free to contact me with any questions or comments.

Sincerely,

A handwritten signature in blue ink that reads "Matthew Calacone /APG".

Matthew Calacone
Senior Project Manager - Environmental Remediation

Enclosure

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General Electric Company

**GROUNDWATER MANAGEMENT
AREA 4 LONG-TERM MONITORING
PROGRAM / ON-PLANT
CONSOLIDATION AREAS POST-
CLOSURE GROUNDWATER
MONITORING EVENT EVALUATION
REPORT – FALL 2022**

March 2023

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**GROUNDWATER
MANAGEMENT AREA 4
LONG-TERM
MONITORING
PROGRAM / ON-PLANT
CONSOLIDATION
AREAS POST-
CLOSURE
GROUNDWATER
MONITORING EVENT
EVALUATION REPORT
– FALL 2022**

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March 2023

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ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
CD	Consent Decree
DNAPL	Dense Non-Aqueous Phase Liquid
EPA	Environmental Protection Agency
FSP	Field Sampling Plan
GE	General Electric Company
GMA	Groundwater Management Area
LNAPL	Light Non-Aqueous Phase Liquid
MCP	Massachusetts Contingency Plan
MDEP	Massachusetts Department of Environmental Protection
mg/kg	Milligrams per kilogram
NTU	Nephelometric Turbidity Units
OPCA	On-Plant Consolidation Area
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzo-p-dioxin
PCDF	Polychlorinated dibenzofuran
PCE	Tetrachloroethylene
PDB	Passive Diffusion Bags
PGC	Pittsfield Generating Company
QAPP	Quality Assurance Project Plan
RAA	Removal Action Area
RCRA	Resource Conservation and Recovery Act
SGS	SGS Environmental Services, Inc.
SVOC	Semi-Volatile Organic Compound
TCE	Trichloroethylene
TEQ	Toxicity Equivalency Quotient
TSCA	Toxic Substances Control Act
UCL	Upper Concentration Limit
VOC	Volatile Organic Compound

1 INTRODUCTION

1.1 General

On October 27, 2000, a *Consent Decree* (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP) and several other government agencies, was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts, that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). This report summarizes activities related to groundwater and non-aqueous phase liquid (NAPL) monitoring in two areas of the Site (Groundwater Management Area 4 and the On-Plant Consolidation Areas),

1.1.1 Groundwater Management Area 4

For groundwater and NAPL, the RAAs at and near the GE Pittsfield facility have been divided into five separate Groundwater Management Areas (GMAs). These GMAs are described, together with the Performance Standards established for the response actions at and related to them, in Section 2.7 of the *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/ NAPL Monitoring, Assessment, and Response Programs). The Plant Site 3 Groundwater Management Area, also known as and referred to herein as GMA 4, excludes the groundwater sampling activities associated with the Hill 78 and Building 71 On-Plant Consolidation Areas (OPCAs), which are located within the boundary of GMA 4, but are subject to a separate groundwater monitoring program (Figure 1).

In accordance with the CD and Attachment H of the SOW, baseline groundwater monitoring within GMA 4 began in 2000 and continued with extended baseline monitoring (known as the interim monitoring program) from Spring 2002 through Fall 2011, which ended after closure of the OPCAs and the completion of the soil-related remediation work at RAAs associated with GMA 4. In March 2012, GE submitted a *Baseline Assessment Final Report and Long-Term Monitoring Program Proposal for Groundwater Management Area 4* (GMA 4 Long-Term Monitoring Proposal), which was conditionally approved by EPA on May 11, 2012. That proposal required monitoring of groundwater elevations and collection of groundwater samples on a semi-annual basis, along with submission of reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. The long-term monitoring program proposed in that report was initiated in Spring 2012. The last report submitted that addressed only the scope of the GMA 4 program, the *Long-Term Monitoring Program Monitoring Event Evaluation Report – Fall 2016* (GMA 4 Fall 2016 Report), was submitted on February 17, 2017 and conditionally approved by EPA on May 23, 2017.

1.1.2 On-Plant Consolidation Areas

In accordance with the CD and the attached *Detailed Work Plan for the On-Plant Consolidation Areas*, GE designed, constructed, and operated two On-Plant Consolidation Areas (OPCAs) at the Site, referred to as

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the Hill 78 and Building 71 OPCAs. In connection with the design, GE developed and implemented a groundwater monitoring program for the OPCAs. Beginning in 2002, this program was incorporated into the groundwater monitoring program for GMA 4. That program continued while the OPCAs were in operation. Final closure activities for the OPCAs were completed in September 2009 with certain restoration activities completed in April 2010. Following closure, GE developed a Long-Term Post-Closure Monitoring Program (Post-Closure Program) specific to the OPCAs, which would be implemented separately from the GMA 4 monitoring program. The details of that program were specified in the final *Post-Closure Groundwater Monitoring Plan*, which was included as Attachment C to Appendix H of the *Final Completion Report* for the OPCAs. Those documents were approved by EPA on September 26, 2011.

As part of the OPCA Post-Closure Program, GE is required to monitor groundwater elevations and collect groundwater samples on a semi-annual basis, and to submit reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. GE commenced implementation of this separate Post-Closure Program for the OPCAs in Fall 2011. The last report submitted that addressed only the OPCA post-closure monitoring program, the *Post-Closure Groundwater Monitoring Event Evaluation Report – Fall 2016* (OPCA Fall 2016 Report), was submitted on February 17, 2017, and conditionally approved by EPA on May 23, 2017.

1.1.3 Combined GMA 4 and OPCA Reports

Condition 1 of EPA's May 23, 2017, conditional approval of GE's GMA 4 Fall 2016 Report and Condition 6 of EPA's May 23, 2017, conditional approval of GE's OPCA Fall 2016 Report, directed GE to combine future GMA 4 and OPCA reports for each monitoring period. The initial combined report, the *GMA 4 Long-Term Monitoring Program/OPCA Post-Closure Groundwater Trend Evaluation Report for Spring 2017* (Spring GMA 4/OPCA 2017 Report) was submitted on August 7, 2017, and conditionally approved by EPA on October 6, 2017. The most recent combined report, the *GMA 4 Long-Term Monitoring Program / OPCA Post-Closure Groundwater Monitoring Event Evaluation Report – Spring 2022* (Spring 2022 GMA 4/OPCA Report) was submitted on August 12, 2022, and conditionally approved by EPA on August 25, 2022.

This *GMA 4 Long-Term Monitoring Program / OPCA Post-Closure Groundwater Monitoring Event Evaluation Report for Fall 2022* describes and presents the results of groundwater sampling activities performed at the GMA 4 and OPCA monitoring wells during the Fall 2022 monitoring period (July through December 2022), as well as other groundwater-related activities performed at and near GMA 4 and the OPCAs during that same period.

1.2 Background Information

A site plan showing the locations of the GMA 4 and Hill 78 and Building 71 OPCAs is included as Figure 1 and the approximate locations of monitoring wells within GMA 4 and the OPCAs are shown on Figure 2.

1.2.1 Description of GMA 4

GMA 4 is located within the mid-eastern portion of the GE Plant Area and encompasses the Hill 78 and Building 71 OPCAs. It includes the Hill 78 Area-Remainder RAA and the portion of the Unkamet Brook Area RAA located west of Plastics Avenue. GMA 4 occupies an area of approximately 68 acres, generally

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bounded by Tyler Street/Tyler Street Extension to the north, Merrill Road to the south, Plastics Avenue to the east, and New York Avenue to the west, as illustrated on Figure 1. The Hill 78 and Building 71 OPCAs (subject to a separate groundwater monitoring program) are located within the central portion of this GMA, which also contains a power generating facility operated by Pittsfield Generating Company (PGC) under a ground lease from GE. Groundwater from deep bedrock wells installed near the OPCAs is utilized for industrial purposes at the PGC power generation facility located just south of the OPCAs. The eastern portion of this GMA is mostly paved or covered by Buildings OP-1 and OP-2, which are operated by General Dynamics Corporation under contract with the U.S. Department of the Navy (GE owns the land beneath those buildings).

The Removal Action performed by GE at the Hill 78 Area-Remainder RAA generally included site preparation, soil removal/replacement and property restoration. These activities were conducted in phases between October 2007 and December 2008, with certain additional restoration activities conducted in April 2010. A *Final Completion Report for the Hill 78 Area-Remainder Removal Action* was submitted to EPA on August 30, 2011 and EPA issued a Certificate of Completion for this RAA on September 6, 2011.

With respect to the portion of the Unkamet Brook Area RAA that is located within GMA 4 (i.e., the portion west of Plastics Avenue), GE's April 2011 *Revised Final Removal Design/Removal Action Work Plan for Unkamet Brook Area-West*, as approved by EPA, demonstrates that no soil remediation is necessary in that portion of this RAA.

Small amounts of light non-aqueous-phase liquid (LNAPL) were occasionally detected at former GMA 4 well H78B-8R from May 1999 to May 2001 and from June 2002 to June 2003, when that well was decommissioned as part of the OPCA construction. Measurable LNAPL has never been recorded in any adjacent or downgradient locations. Since the decommissioning of well H78B-8R in 2003, LNAPL has not been observed at any wells within GMA 4.

1.2.2 Description of the OPCAs

In accordance with the CD, the Hill 78 and Building 71 OPCAs were constructed and utilized for the consolidation of materials (e.g., soil, sediment, debris, etc.) generated during the performance of various response actions conducted by both GE and EPA, as well as certain demolition and related activities conducted by GE, at several locations at the Site. The Building 71 OPCA occupies approximately 4.4 acres directly east and adjacent to Hill 78 OPCA and contains waste material which contains PCBs at concentrations at or above 50 milligrams per kilogram (mg/kg) and is subject to the Toxic Substances Control Act (TSCA) regulations and/or that constitutes hazardous waste under the Resource Conservation and Recovery Act (RCRA). The Hill 78 OPCA occupies approximately 6.0 acres of the north-central section of the Site along Tyler Street and contains waste material that contains PCBs at concentrations less than 50 mg/kg and does not constitute hazardous waste under RCRA.

The OPCAs themselves (i.e., areas comprising the consolidated materials and final cover limits) along with certain associated areas, including stormwater basins occupying approximately 1.1 acres and other areas occupying approximately 0.65 acre, together cover an area of approximately 12.15 acres within a portion of Tax Parcel K11-7-2. Although the Hill 78 and Building 71 OPCA RAAs constitute separate RAAs under the CD, they are physically located within the boundaries of the Hill 78 Area-Remainder RAA. Additional ancillary features, including paved access roads, leachate collection facilities, and a surface water drainage system, are located outside the boundaries of the OPCA RAAs.

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Currently, personnel acting on behalf of PGC collect groundwater samples from an existing bedrock supply well (ASW-5, which serves as the primary source of cooling water for the generation facility) for analysis of PCBs and volatile organic compounds (VOCs), in accordance with an existing permitted program. This well is located near the southwest corner of the steam turbine generator building, as illustrated on Figure 2. As required by EPA, the analytical results provided on behalf of PGC for samples collected from well ASW-5 are included in the OPCA groundwater monitoring program reports, as discussed in Sections 3.4.3 and 4.5.

2 FORMAT OF DOCUMENT

The remainder of this report consists of four sections. A basic description of each remaining section follows.

- Section 3. Describes the groundwater-related activities performed at GMA 4 and the OPCAs in Fall 2022.
- Section 4. Presents the analytical results obtained during the Fall 2022 sampling events at GMA 4 and the OPCAs.
- Section 5. Provides a summary of the applicable groundwater quality Performance Standards identified in the CD and SOW, a comparison of the Fall 2022 results to those Performance Standards, an overall assessment of groundwater quality at GMA 4 and the OPCAs, including an evaluation of the analytical dataset for the wells that were sampled as part of the Fall 2022 sampling event.
- Section 6. Evaluates the need for modifications to the long-term monitoring program for GMA 4, and the OPCA Post-Closure Program, presents the schedule for future field and reporting activities related to groundwater quality at GMA 4, and provides an assessment of the need for follow-up investigations or response actions.

Additional supporting information is provided in tables, figures, and appendices.

3 FALL 2022 FIELD AND ANALYTICAL ACTIVITIES

3.1 General

The GMA 4 and OPCA field and analytical activities are summarized in this section. Field activities conducted in Fall 2022 as part of the GMA 4 Long-Term Monitoring Program and OPCAs Post-Closure Program included the measurement of groundwater levels and the collection and analysis of groundwater samples at select monitoring wells within and downgradient of GMA 4 and at wells surrounding the OPCAs. Table 1 summarizes the scope of the groundwater quality sampling programs and Table 2 summarizes the scope of the groundwater elevation monitoring programs. The groundwater elevation monitoring programs summarized in Table 2 also include several adjacent monitoring wells in the GMA 1 area as well as wells monitored by EPA at the Allendale School property. The monitoring wells in these programs are shown on Figure 2, and a summary of monitoring well construction details for each well in these areas is provided in Table 3. GE also performed inspections of the monitoring wells, as summarized in Appendix A.

Groundwater elevation monitoring was performed on October 20, 2022. The collection of groundwater samples was conducted from October 31 through November 3, 2022 (via low-flow techniques), and on December 1, 2022 (when the passive diffusion bags [PDBs] were sampled). All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP)*, dated July 2013, the *GMA 4 Long-Term Monitoring Program Proposal* and the *OPCA Post-Closure Groundwater Monitoring Plan*.

3.2 Monitoring Well Inspections and Repairs

Routine monitoring well inspections were performed during the semi-annual gauging event on October 20, 2022.¹ A summary of those inspections is provided as Table A-1 (Appendix A). As shown on that table, a curb box was replaced at GMA4-2 and bolt threads were retapped at wells OPCA-MW-4 and H78B-13R. Well RF-15R, which was installed during Spring 2022, was surveyed and developed on July 25, 2022, and September 21, 2022, respectively. The well development log is included in Appendix A. All remaining maintenance activities noted in Table A-1 will be performed prior to the next monitoring event.

3.3 Groundwater Elevation Measurement and LNAPL Monitoring

3.3.1 Groundwater Elevation Measurement

Groundwater elevation was recorded in all 31 monitoring wells in the GMA 4 and OPCA gauging programs on October 20, 2022. Concurrent groundwater elevation data were collected by EPA from piezometers PZ-1, PZ-2, PZ-3, PZ-4 and monitoring well SCH-1, located on or adjacent to the Allendale School property, and by GE from an additional subset of four nearby wells (ES1-05, ES1-20, GMA4-5, and GMA4-7S) within areas outside GMA 4 and the OPCAs. Groundwater elevations measured as part of the GMA 4 and OPCA

¹ GMA 1 well ES1-20 was inspected on October 19, 2022 and gauged on both October 19 (for GMA 1 monitoring) and October 20 (for GMA 4/OPCA monitoring).

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monitoring programs in Fall 2022 are provided in Table 4. A Fall 2022 groundwater contour map is included as Figure 3.

In general, groundwater in the vicinity of GMA 4 and the OPCAs generally flows from north to south, although variations exist corresponding to changes in the topography of the ground surface and/or the glacial till interface, including a prominent groundwater depression across the western portion of GMA 4. The Fall 2022 groundwater elevations were within the historical range of measurements. As shown on Figure 3, the groundwater flow directions are generally consistent with those observed during previous seasonal monitoring events. A comparison of the groundwater elevation contours with the top-of-glacial till contours, presented in the *Long-Term Monitoring Program Monitoring Event Evaluation Report for Spring 2014* (approved by EPA on September 11, 2014), continues to show that groundwater elevations generally correlate to changes in the elevation of the glacial till interface.

The EPA monitoring data from the Allendale School property are generally consistent with the groundwater contours presented in the GMA 4 and OPCA semi-annual reports since Spring 2008. Groundwater elevations are highest at the locations adjacent to the school and decrease to the south (i.e., groundwater flows from the Allendale School property toward the OPCAs), providing confirmation that the OPCAs are downgradient from the Allendale School property.

In addition, at EPA's direction, GE reviewed the Housatonic River flow data collected at the U.S. Geological Survey (USGS) gauging station in Coltsville, Massachusetts during the groundwater elevation monitoring and sampling events. That river flow data ranged from 36 to 191 cubic feet per second during the Fall 2022 gauging and sampling period from October 20, 2022 to December 1, 2022.

3.3.2 LNAPL Monitoring

Consistent with prior monitoring results, no non-aqueous phase liquid (NAPL) was observed in any of the GMA 4 or OPCA monitoring wells during the groundwater elevation and sampling activities conducted in Fall 2022. This includes wells OPCA-MW-2R and OPCA-MW-3R, which are located downgradient of former well H78B-8R, where the only known historical occurrence of NAPL within the OPCA area was recorded. Small amounts of Light NAPL (LNAPL) were previously detected at well H78B-8R from May 1999 to May 2001 and from June 2002 to June 2003. However, that well was decommissioned as part of the OPCA construction, and LNAPL has never been observed in any adjacent location. During the Fall 2022 monitoring event, four wells (H78B-17R, NY-3, OPCA-MW-1RR, and UB-MW-6) in GMA4 or the OPCAs had submerged screens (i.e., the depth to water was above the top of the screened interval in these wells). While certain wells in the area do periodically have submerged screens during times of high-water table elevation, gauging at times of lower groundwater elevation continues to document the lack of LNAPL. Dense non-aqueous phase liquid (DNAPL) has not been observed in any GMA 4 or OPCA wells.

3.4 Groundwater Sampling and Analysis

3.4.1 GMA 4 Sampling and Analysis

Long-term groundwater sampling was completed at the four monitoring wells in the GMA 4 long-term sampling program on December 1, 2022. These wells are listed in Table 1 and shown on Figure 2. Each

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well was sampled via PDB in accordance with EPA's May 8, 2014 conditional approval of the GMA 4 Fall 2013 Trend Evaluation Report and an April 3, 2014 communication between EPA and GE.

In accordance with Appendix AA of the FSP/QAPP, PDBs were deployed in each well on November 14, 2022, remained in the well within the screened interval for 17 days (which is greater than the minimum of 14 days required by the FSP/QAPP), and were removed on December 1, 2022, for collection of VOC samples. Although PDBs do not require low-flow purging, field parameters (including depth to water, temperature, pH, specific conductivity, dissolved oxygen, and oxidation-reduction potential) were measured in each well (except H78B-16) with a down-well water quality meter combined with the use of a peristaltic pump or bailer to retrieve water for turbidity measurements with a separate turbidity meter. Due to its smaller diameter, all water quality and turbidity measurements at well H78B-16 were measured *ex situ* by purging water with a peristaltic pump. Sampling information, including field measurements, was recorded on the Groundwater Sampling Logs provided in Attachment AA-1 (PDB sampling) of the FSP/QAPP. Groundwater sampling logs are provided in Appendix A and final field parameter measurements are listed in Table 5.

The collected groundwater samples were submitted to SGS Environmental Services Inc. (SGS), located in Orlando, Florida, for laboratory analysis of the "Appendix IX + 3" list of VOCs specified in Table 2 of the FSP/QAPP via EPA Method 8260. Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness, validated, and compared to the applicable Performance Standards, which are based on the Massachusetts Contingency Plan (MCP) Method 1 GW-2 and GW-3 standards, and to the MCP Upper Concentration Limits (UCLs) for groundwater. The laboratory analytical data are summarized in Table 6a, included in the data validation report provided in Appendix B, and are discussed in Sections 4.3, 5.2, and 5.3.

3.4.2 OPCA Sampling and Analysis

Groundwater sampling was conducted at 12 monitoring wells in the Post-Closure Program from October 31 to December 1, 2022. Groundwater sampling was performed in accordance with GE's approved FSP/QAPP and *Post-Closure Groundwater Monitoring Plan*, with the qualification that PDBs are utilized for VOC analyses under certain circumstances and in accordance with prior EPA approval and the FSP/QAPP. Specifically, Condition 6 of EPA's conditional approval letter for GE's Fall GMA 4/OPCA 2018 Report indicated that, if an OPCA well purges dry prior to stabilization, or the level of water elevation stabilization is less than two feet above the bottom of the screen, then the well will be allowed to recharge, non-VOC parameters will be collected from the recharge, and then a PDB will be installed for VOC sampling. During the Fall 2022 monitoring event, four wells were sampled using PDBs. A PDB was deployed in each of these four wells on November 14, 2022, remained in the well at the screen interval for 17 days (which is greater than the minimum of 14 days required by the FSP/QAPP), and was removed on December 1, 2022, for VOC sampling, in accordance with Appendix AA of the FSP/QAPP.

Monitoring wells sampled using low-flow techniques were purged until field parameters (including water level, temperature, pH, specific conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential) stabilized, or were purged dry prior to field parameter stabilization, in which case the wells were allowed to recharge prior to sampling, in accordance with Appendix D of the FSP/QAPP. Field parameters were measured using a water quality meter and flow-through cell and a separate turbidity meter. Sampling information, including field measurements, was recorded on the Groundwater Sampling Logs provided in Attachments D-2 (low-flow sampling) and AA-1 (PDB sampling) of the FSP/QAPP. Groundwater sampling

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logs are provided in Appendix A and final field parameter measurements are listed in Table 5. Sampling using a PDB was performed as described in Section 3.4.1.

A total of 12 groundwater sample sets were collected between October 31 to December 1, 2022 in accordance with Table 1 and submitted to SGS Environmental Services Inc. (SGS), located in Orlando, Florida for laboratory analysis of Appendix IX + 3: VOCs via EPA Method 8260; PCB Aroclors via EPA Method 8082; semi-volatile organic compounds (SVOCs) via EPA Method 8270; and metals via EPA Method 6010, as specified in Table 2 of the FSP/QAPP.² Samples were subcontracted by SGS to Eurofins Lancaster Laboratories, Inc. in Lancaster, PA for sulfide analysis via EPA Method 9034 and to Alpha Analytical, located in Westborough, MA for PAC analysis via EPA Method 9014.³ Following receipt of the analytical data from the laboratories, the preliminary results were reviewed for completeness, validated, and compared to the applicable Performance Standards, which are based on the Massachusetts Contingency Plan (MCP) Method 1 or Method 2 GW-2 and GW-3 standards, and to the MCP Upper Concentration Limits (UCLs) for groundwater. The laboratory Analytical data are summarized in Table 6b, included in the data validation report provided in Appendix B, and are discussed in Sections 4.3 and 5.3.

3.4.3 Pittsfield Generating Company Sampling

In accordance with PGC's existing permitted program, PGC collected a groundwater sample for analysis of VOCs and PCBs from PGC's deep bedrock groundwater extraction well (well ASW-5, screened at approximately 441 to 457 feet below ground surface). The analytical results provided on behalf of PGC for the samples collected from ASW-5 on December 20, 2022, are provided in Appendix C and the results are discussed in Section 4.5.

² As agreed with EPA, groundwater samples are analyzed for PCBs and inorganic constituents only in filtered form, resulting in the reporting of concentrations of dissolved PCBs and inorganics.

³ PAC and Sulfide analysis are collected at the wells indicated in Table 1 at a biennial (i.e., every other year) frequency and will next be sampled in Fall 2024. The sulfide sample bottle for well OPCA-MW-7 was reported by the laboratory to have broken after the Fall 2022 monitoring period ended.

4 FALL 2022 GROUNDWATER ANALYTICAL RESULTS

4.1 General

This section presents a summary of the Fall 2022 groundwater analytical results. The laboratory analytical results are provided in Appendix B and the results are summarized in Tables 6a and 6b. Values presented in [brackets] represent duplicate sample results from the subject sampling event. The laboratory data were validated in accordance with the approved FSP/QAPP and the most current Region I data validation guidelines, EPA New England, Environmental Data Review Program Guidance (USEPA, April 2013). Based on the results of the data validation, it has been determined that 98.18% of the GMA 4 and 97.88% of the OPCA Fall 2022 groundwater quality data are useable; both values are greater than the minimum required usability of 90% as specified in the FSP/QAPP. The following subsections provide an overview of the Spring 2022 analytical results for the GMA 4 and OPCA groundwater quality monitoring wells.

4.2 Groundwater Quality Performance Standards

The applicable groundwater quality Performance Standards under the CD and SOW are based on the groundwater classification categories designated in the MCP (310 CMR 40.0932) that are relevant to GMA 4 and the area around the OPCAs. The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater in GMA 4 or the OPCA area is classified as GW-1. However, the remaining MCP groundwater categories are applicable to GMA 4 and the OPCA area and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth below ground surface of 15 feet or less.⁴
- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to ultimately discharge to surface water.

The MDEP adopted default “Method 1” groundwater standards for these categories, including GW-2 standards for certain volatile constituents and GW-3 standards for several constituents. These standards are set forth in the MCP and are used for comparison to the data summarized in this report. The MCP also contains procedures for development of “Method 2” standards for constituents for which Method 1 standards do not exist. On July 30, 2008, EPA approved Method 2 GW-3 standards derived for two constituents (cobalt and copper) for use at all GMAs at this Site. The Method 2 GW-3 standards for both constituents are used for evaluation of OPCA Post-Closure Program data when those constituents are detected.

The applicable groundwater Performance Standards for each of the monitored wells in GMA 4 and the OPCA post-closure program are specified in Table 1. As noted therein, those standards are applied as benchmarks

⁴ In addition, the SOW specifies a concentration of 5 parts per million (ppm) of total VOCs as a notification level for GW-2 wells located within 30 feet of a school or occupied residential structure and as a trigger level in GW-2 wells (if associated with an exceedance of a GW-2 standard) for the proposal of response actions.

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for informational purposes at certain wells where the MCP Method 1 standards are not applicable as Performance Standards for compliance purposes. The applicable Performance Standards and benchmarks for the long-term GMA 4 monitoring program and the OPCA post-closure groundwater monitoring program are discussed in the following subsections.

4.2.1 Applicable Groundwater Performance Standards at GMA 4

The four monitoring wells sampled within GMA 4 (GMA4-7S, GMA4-8, GMA4-9, and H78B-16) do not meet the definitional requirements for GW-2 wells as those wells are not located within 30 feet of an occupied residential structure or school. As such, the GW-2 Performance Standards do not apply. However, as required by EPA, the analytical results from those wells are compared to the MCP Method 1 GW-2 standards as benchmarks for informational purposes only. Three of those wells (GMA4-7S, GMA4-9, and H78B-16) are GW-3 compliance wells, and thus the results from those wells are evaluated against the MCP Method 1 GW-3 Performance Standards for long-term compliance. For the fourth well (GMA4-8) the results are compared to the MCP Method 1 GW-3 standards only as benchmarks. Finally, the results from all four wells are compared to the MCP UCLs for groundwater.

4.2.2 Applicable Groundwater Performance Standards for OPCAs

As specified in the OPCA *Post-Closure Groundwater Monitoring Plan*, none of the 12 existing wells in the OPCA Post-Closure Program meets the GW-2 criteria as those wells are not located within 30 feet of an occupied residential structure or school. However, three of those monitoring wells (H78B-15, OPCA-MW-4, and OPCA-MW-5R) are located slightly more than 30 feet upgradient of buildings. As a result, those wells are used for assessing compliance with GW-2 Performance Standards. In addition, the Post-Closure Program requires use of GW-2 standards as benchmark levels at all OPCA wells, even if they do not meet the GW-2 criteria, to assess the need for further actions to evaluate the potential for vapor intrusion. Finally, all groundwater at and near the OPCAs is classified as GW-3; therefore all 12 of the sampled wells are monitored for compliance with the GW-3 Performance Standards, as well as the MCP UCLs for groundwater.

4.3 Groundwater Quality Results for GMA 4

The analytical results for the GMA 4 groundwater samples collected in Fall 2022 are summarized in Table 6a. Based on laboratory analytical results from the Fall 2022 long-term monitoring event, one VOC in one well was recorded at a concentration greater than the GW-2 benchmarks. Trichloroethene (TCE) at well H78B-16 was reported at a concentration of 0.21 mg/L, which exceeded the GW-2 benchmark (0.005 mg/L). As noted above, none of the sampled wells at GMA 4 are subject to the GW-2 Performance Standards. None of the results exceeded the GW-3 Performance Standards or MCP UCLs in GMA 4 in Fall 2022. An overall assessment of the groundwater quality in GMA 4 is presented in Section 5.

4.4 Groundwater Quality Results for OPCAs

The analytical results for the OPCA groundwater samples collected in Fall 2022 are summarized in Table 6b. As shown in Table 6b, VOCs, SVOCs, dissolved inorganics, dioxins/furans, sulfide, and dissolved PCBs were detected in various groundwater samples from the OPCA wells in Fall 2022. PCE and TCE concentrations (TCE in a parent sample only) exceeded the GW-2 benchmarks (0.05 mg/L and 0.005 mg/L,

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respectively) in the sample from well OPCA-MW-1RR, with a PCE concentration of 0.45 [0.50] mg/L, and an estimated TCE concentration of 0.011 J mg/L [ND(<0.010) mg/L].^{5,6} There were no exceedances of the GW-2 benchmarks in any of the other wells and no exceedances of the GW-2 Performance Standards (and no constituents detected at concentrations greater than 50% of those Performance Standards) in the three wells monitored for compliance with those standards. Further, all other results (including the PCE and TCE results from well OPCA-MW-1RR) were less than the GW-3 Performance Standards and the MCP groundwater UCLs. An overall assessment of the groundwater quality in the OPCAs is presented in Section 5.

4.5 Pittsfield Generating Company Sample Results

PGC provided laboratory data for the sample collected from industrial supply well ASW-5 on December 20, 2022. The laboratory data results are provided in Appendix C, along with charts of historical PCB and total VOC concentration data for samples collected from this well since June 1996. A review of the laboratory analytical results indicates that VOCs and PCBs were not detected in the groundwater sample collected from ASW-5. As indicated on the charts provided in Appendix C, the total VOC concentrations (historically consisting primarily of TCE) have generally decreased since Fall 2003, with no VOCs detected since Spring 2012. None of the VOCs historically detected in this supply well have been observed at concentrations greater than the applicable MCP Method 1 GW-3 standard or MCP UCLs and dissolved PCBs have never been detected in this well.

⁵ “J” data qualifiers indicate an estimated value.

⁶ ND indicates that the constituent was not detected in the sample. The values in parentheses following ND are the associated reporting limit preceded by the “less than” symbol (<) as the concentration is less than the detection limit. This notation is included in accordance with Condition 4 of EPA's May 23, 2017 conditional approval of GE's OPCA Fall 2016 Report.

5 ASSESSMENT OF GROUNDWATER QUALITY

5.1 General

This section presents an assessment of Fall 2022 groundwater analytical results relative to the applicable benchmarks, Performance Standards, and the UCLs for groundwater. In addition, this section includes a comparison of the Fall 2022 monitoring results to prior data from the GMA 4 and OPCA monitoring wells and presents an overall evaluation of the data from those wells. Summary statistics of historical analytical results for monitoring wells included in the GMA 4 Long-Term Program and OPCA Post-Closure Program and graphs illustrating the concentrations of certain constituents over time which have exceeded GW-2 benchmarks and/or the GW-3 standards/benchmarks were prepared in support of these evaluations and are provided in Appendix D.

5.2 Groundwater Results Relative to Benchmarks and Performance Standards – Fall 2022

Laboratory analytical results were compared to the MCP Method 1 GW-2 and GW-3 benchmarks and Performance Standards and to the MCP UCLs for groundwater, as summarized in Table 6a and 6b and in Sections 4.3 and 4.4 and are further discussed in the following sections.

5.2.1 Fall 2022 Groundwater Results Relative to GW-2 Benchmarks and Performance Standards

As indicated in Table 6a and noted in Section 4.3, one VOC in one GMA 4 well was recorded at a concentration greater than the corresponding GW-2 benchmark. TCE was detected in the sample from well H78B-16 at a concentration of 0.21 mg/L that exceeded the GW-2 benchmark (0.005 mg/L). TCE has been detected in samples from well H78B-16 at concentrations greater than the GW-2 benchmark value in 29 of 34 prior sampling events (see Appendix D graph). The last event with a TCE concentration below the GW-2 benchmark at well H78B-16 was in Spring 2021 (July 2021). As previously noted, GW-2 benchmarks are used only for informational purposes in GMA 4; none of the wells in the GMA 4 long-term monitoring program meet the definition of GW-2 groundwater monitoring wells; therefore, none of the wells are compliance points for the GW-2 Performance Standards. Finally, no wells in GMA 4 exceeded the 5 mg/L total VOC benchmark notification level.

As indicated in Table 6b and noted in Section 4.4, none of the laboratory analytical results from the three monitoring wells used for assessing compliance with GW-2 Performance Standards in the OPCA program (wells H78B-15, OPCA-MW-4, and OPCA-MW-5R) exceeded the GW-2 Performance Standards or even 50% of those standards, and none of the wells contained total VOC concentrations above the 5 mg/L notification level for GW-2 compliance points. Two VOCs in one well in the OPCAs were recorded at concentrations greater than the GW-2 benchmarks. Specifically, PCE was detected in the sample from well OPCA-MW-1RR at a concentration (0.48 [0.50] mg/L), which is greater than the GW-2 benchmark (0.05 mg/L). PCE has been detected in samples from well OPCA-MW-1RR at concentrations greater than the GW-2 benchmark value in 28 of 28 prior sampling events (see Appendix D graph). TCE was detected in the sample from well OPCA-MW-1RR at an estimated concentration, but not in a duplicate sample, (0.011 J

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mg/L [ND(<0.010) mg/L]). The parent sample exceeded the GW-2 benchmark (0.005 mg/L). TCE has been detected in samples from well OPCA-MW-1RR at concentrations greater than the GW-2 benchmark value in 24 of 28 prior sampling events (see Appendix D graph). The last event with a TCE concentration less than the GW-2 benchmark at well OPCA-MW-1RR was in Fall 2010. As indicated in Section 4.2.2, GW-2 benchmarks are used only for informational purposes (e.g., when discussing well OPCA-MW-1RR). As indicated below, the TCE and PCE concentrations detected in the sample from well OPCA-MW-1RR in Fall 2022 were less than the applicable GW-3 Performance Standards.

5.2.2 Fall 2022 Groundwater Results Relative to GW-3 Benchmarks and Performance Standards

As indicated in Table 6a and discussed in Section 4.3, all the Fall 2022 laboratory analytical results from the GMA 4 monitoring wells were less than their corresponding MCP Method 1 GW-3 Performance Standards or benchmarks. Similarly, all of the Fall 2022 laboratory analytical results from the OPCA post-closure monitoring wells were less than their GW-3 Performance Standards, as indicated in Table 6b and discussed in Section 4.4.

5.2.3 Fall 2022 Groundwater Results Relative to Upper Concentration Limits

All of the GMA 4 and OPCA laboratory analytical results were reported at concentrations less than the groundwater UCLs.

5.3 Overall Assessment of Groundwater Analytical Results

Analytical results from the Fall 2022 long-term groundwater sampling event and post-closure groundwater sampling event were compared to data obtained during prior sampling events for the purpose of assessing the variability of the data and the overall groundwater conditions. The results of these assessments are described below.

5.3.1 Comparison of Fall 2022 GMA 4 Analytical Results to Prior Groundwater Data

This section discusses the analytical results for the groundwater samples collected from GMA 4 wells in Fall 2022 (summarized in Table 6a) in the context of the historical analytical dataset for the GMA 4 monitoring wells. Graphs of concentrations over time for the two wells sampled during Fall 2022 that have historically shown exceedances of the GW-2 benchmark levels, but not the GW-3 Performance Standards, for PCE (well GMA4-9), TCE (wells GMA4-9 and H78B-16) and vinyl chloride (well H78B-16) are provided in Appendix D. Summary statistics of the historical results at the four wells included in the long-term sampling program are also provided in Appendix D.

Of the GMA 4 monitoring wells sampled during Fall 2022 (GMA4-7S, GMA4-8, GMA4-9, and H78B-16), only three VOC listed on Table 2 of the FSP/QAPP have been detected at concentrations greater than the GW-2 benchmark levels during the long-term monitoring program: TCE and vinyl chloride in samples from well H78B-16 and PCE in samples from well GMA4-9 (TCE was detected in samples from well GMA4-9 at concentrations greater than the GW-2 benchmark level prior to the long-term monitoring program). However,

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no constituent has ever been detected in these wells at a concentration greater than its respective GW-3 Performance Standard, GW-3 benchmark, or UCL. Further, total VOC concentrations have not been detected at a concentration greater than the benchmark GW-2 notification level of 5 mg/L in any GMA 4 wells sampled. Additional detailed analysis of the detected concentrations of these constituents under the GMA 4 program is provided below.

TCE was detected during all 35 sampling events at well H78B-16, with an average concentration of 0.119 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is greater than the current GW-2 benchmark level of 0.005 mg/L, but less than the GW-3 Performance Standard of 5 mg/L. During the Spring 2022 sampling event, TCE was detected in the sample from well H78B-16 at a concentration of 0.21 mg/L, which is greater than the GW-2 benchmark level. Over the last five years, TCE concentrations in samples from well H78B-16 have fluctuated between 0.00057 J and 0.74 mg/L.

TCE was detected during 21 of 25 sampling events at well GMA4-9, with an average concentration of 0.00240 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is less than the GW-2 benchmark level of 0.005 mg/L and less than the GW-3 Performance Standard of 5 mg/L. During the Fall 2022 sampling event, TCE was not detected in the sample from well GMA4-9. Therefore, the concentration was less than the GW-2 benchmark level and less than the maximum detected concentration detected in that well (0.007 mg/L in Spring 2010 – prior to the start of the Long-Term Program at GMA 4). Concentrations of TCE have remained less than the GW-2 benchmark level in well GMA4-9 for the duration of the Long-Term Program. Over the last five years, TCE concentrations in samples from well GMA4-9 have fluctuated between ND(<0.0010) and 0.0048 mg/L.

Vinyl chloride was detected during 18 of 35 sampling events at well H78B-16, with an average concentration of 0.00384 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is greater than the GW-2 benchmark level of 0.002 mg/L, but less than the GW-3 Performance Standard of 50 mg/L. Vinyl Chloride was detected in this well only four times between Spring 2013 and Fall 2022 (i.e., Fall 2017, Spring 2020, Fall 2021, and Spring 2022). During the Fall 2022 sampling event, vinyl chloride was not detected. Therefore, the concentration was less than the GW-2 benchmark level of 0.002 mg/L and the GW-3 Performance Standard of 50 mg/L. Vinyl chloride has been detected three times in samples from well H78B-16 over the last five years.

PCE was detected in all prior sampling events at well GMA4-9 (except for Fall 2016) and was again detected in Fall 2022 at a concentration of 0.0022 mg/L, which is less than the GW-2 benchmark level of 0.05 mg/L and the GW-3 Performance Standard of 30 mg/L. The average concentration of PCE in samples from well GMA4-9 is 0.0802 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is greater than the GW-2 benchmark level, but less than the GW-3 Performance Standard. Peak concentrations of PCE were detected in samples from well GMA4-9 between 2009 and 2011 (0.18 to 0.36 mg/L). Over the last five years, PCE concentrations in samples from well GMA4-9 have fluctuated between 0.0022 mg/L and 0.12 mg/L.

5.3.2 Comparison of Fall 2022 OPCA Analytical Results to Prior Groundwater Data

This section discusses the analytical results for the groundwater samples collected from OPCA wells in Fall 2022 (summarized in Table 6b) in the context of the historical analytical dataset for the OPCA monitoring

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wells. Graphs of concentrations over time for the one OPCA well sampled during Fall 2022 that has historically shown exceedances of the GW-2 benchmark (but not the GW-3 Performance Standards) for PCE and TCE (well OPCA-MW-1RR) and the four OPCA wells that have historically shown exceedances of the GW-3 Performance Standard for cadmium (wells 78-1, GMA4-6, OPCA-MW-1RR, and OPCA-MW-7) are provided in Appendix D. Summary statistics of the historical results at the 12 wells included in the OPCA Post-Closure Program are also provided in Appendix D.

PCE was detected in all 32 sampling events in samples from well OPCA-MW-1RR, with an average concentration of 2.04 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is greater than the GW-2 benchmark level of 0.05 mg/L, but less than the GW-3 Performance Standard of 30 mg/L. The maximum detected PCE concentration in this well was 5.570 [5.630] mg/L in Spring 2009, and the concentration was 0.48 [0.50] mg/L during the Fall 2022 sampling event. Over the last five years, PCE concentrations have fluctuated between 0.48 and 2.4 D mg/L.⁷

TCE was detected in 25 of 32 sampling events in samples from well OPCA-MW-1RR, with an average concentration of 0.0464 mg/L (including non-detected sample results) and a detected average concentration (using only detected concentrations) of 0.0239 mg/L.⁸ Both averages are greater than the GW-2 benchmark level of 0.005 mg/L, but less than the GW-3 Performance Standard of 5 mg/L. As indicated on the graph for this well (Appendix D), the maximum concentration of TCE detected in OPCA-MW-1RR was an estimated 0.042 J mg/L in Spring 2012, and the concentration was an estimated 0.011 J [ND (<0.010 J)] mg/L during the Fall 2022 sampling event (the parent only was greater than the GW-2 benchmark level). The Fall 2022 concentrations were less than the GW-3 Performance Standard. Over the last five years, TCE concentrations in samples from well OPCA-MW-1RR have fluctuated between ND (<0.010 J) and 0.035 J mg/L.

Dissolved cadmium was detected in 23 of 32 sampling events from well OPCA-MW-1RR, with an average concentration of 0.00386 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is less than the GW-3 Performance Standard of 0.004 mg/L. The maximum concentration of dissolved cadmium detected in OPCA-MW-1RR was an estimated 0.0273 J mg/L in Spring 2014, but this result is considered anomalous because as it is approximately an order of magnitude greater than the dissolved cadmium concentrations typically observed at this location. During the Fall 2022 sampling event, dissolved cadmium was detected at an estimated concentration of 0.000800 J [0.000800 J] mg/L, which is substantially less than the Spring 2014 maximum of 0.0273 J mg/L, and less than both the average concentration of dissolved cadmium at this well and the GW-3 Performance Standard. Over the last five years, dissolved cadmium concentrations have fluctuated between 0.000500 J and 0.00800 mg/L. Additionally, review of the data from downgradient locations indicate that dissolved cadmium is not migrating downgradient from well OPCA-MW-1RR at concentrations greater than the GW-3 Performance Standard. Specifically, the results from downgradient well OPCA-MW-2R show only infrequent and low detections of

⁷ "D" data qualifiers indicate that the result was quantitated using a secondary dilution.

⁸ The average is calculated using 50% of the detection limit for non-detected results and thus is skewed higher than the maximum detected concentration of TCE in well OPCA-MW-1RR due to high historical detection limits. The detected average is presented here and on the chart in Appendix D and was calculated only using detected results.

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dissolved cadmium (the Fall 2022 result was ND(<0.005) mg/L).⁹ The most recent detection of dissolved cadmium in well OPCA-MW-2R was in Fall 2014 at an estimated concentration of 0.0000900 J mg/L. Additionally, downgradient well GMA4-8 was temporarily sampled for dissolved cadmium, but that sampling was terminated (with EPA approval) following the Fall 2017 sampling event because dissolved cadmium concentrations remained less than the GW-3 benchmark for four consecutive rounds of sampling.

Dissolved cadmium was detected in 17 of 33 sampling events at well GMA4-6, with an average concentration of 0.00182 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is less than the GW-3 Performance Standard of 0.004 mg/L. The maximum detected dissolved cadmium concentration in this well was 0.0058 mg/L (Fall 2018 sampling event), which is slightly greater than the GW-3 Performance standard. Dissolved cadmium was not detected (ND(<0.005) mg/L) in the Fall 2022 sample from this well. Over the last five years, concentrations have fluctuated between ND(<0.005) mg/L and 0.0058 mg/L. This well is located upgradient of the OPCAs and well OPCA-MW-1RR. As indicated above, dissolved cadmium has been frequently detected in samples from downgradient well OPCA-MW-1RR at concentrations that sporadically exceed the GW-3 Performance Standard. However, a review of the analytical data from wells downgradient of well OPCA-MW-1RR indicates that dissolved cadmium is not migrating downgradient of well OPCA-MW-1RR at concentrations greater than the GW-3 Performance Standard. In addition, dissolved cadmium was last detected in well 78-6R (which at approximately 300 feet away and slightly upgradient of well GMA4-6 is the closest sampled well to well GMA4-6) in Spring 2016 at an estimated concentration of 0.000130 J mg/L, which is substantially less than the GW-3 Performance Standard.

Dissolved cadmium was detected in 13 of 44 sampling events from well 78-1, with an average concentration of 0.00219 mg/L. As illustrated on the graph for this well (Appendix D), the average concentration is less than the GW-3 Performance Standard of 0.004 mg/L. The sample collected in Fall 2016 was the only sample with a dissolved cadmium concentration (0.0223 mg/L) greater than the GW-3 Performance Standard and that result was approximately an order of magnitude greater than the average for this well. Dissolved cadmium was not detected (ND(<0.005) mg/L) in the Fall 2022 sample from this well. Dissolved cadmium was not detected in eight of the 12 sampling events since Fall 2016. Over the last five years, dissolved cadmium concentrations have ranged between ND(<0.005) and 0.00300 J mg/L. GE previously evaluated the results from downgradient wells OPCA-MW-4, OPCA-MW-5R, and OPCA-MW-8R and found that, from Fall 2016 through Spring 2020 the dissolved cadmium results for samples from these wells were less than 50% of the applicable GW-3 Performance Standard, except for the Spring 2019 result of 0.00320 J mg/L in the sample from well OPCA-MW-4. However, this result was less than the GW-3 Performance Standard and dissolved cadmium was not detected in well OPCA-MW-3R (ND(<0.00500 mg/L)), which is downgradient of well OPCA-MW-4, during the Spring 2019 sampling event. Given the low to non-detected concentrations of dissolved cadmium typically found in samples from well 78-1 and found in samples from nearby wells, the dissolved cadmium result from well 78-1 in Fall 2016 was potentially an anomaly.

Finally, Condition 1 of EPA's April 9, 2020, conditional approval of the Fall GMA 4/OPCA 2019 Report required GE to compare sulfide results to historical detected levels. Sulfide was detected in one well in Fall

⁹ Although the Fall 2022 reporting limit for dissolved cadmium in all non-detect sample results was greater than the GW-3 standard, the method detection limit (0.000200 mg/L) was more than an order of magnitude less than the GW-3 standard. Detections between a reporting limit and method detection limit are qualified with a "J" and are estimated in concentration.

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2022 (0.90 J [0.71 J] mg/L in well OPCA-MW-1RR). The Fall 2022 sulfide sample bottle for well OPCA-MW-7 was reported by the laboratory to have broken after the Fall 2022 monitoring period ended. Sulfide is rarely detected in well OPCA-MW-7 (4 of 38 sampling events). Sulfide is infrequently detected (overall detection frequency of 33 out of 460 individual well-specific rounds of analysis from all OPCA wells). The sulfide dataset includes samples from as early as 1999. Ten of the 12 wells sampled under the subject program were monitored semi-annually since 2001 (well OPCA-MW-6 was not monitored in Fall 2001 as it was dry), and the remaining two wells (OPCA-MW-1R/1RR and GMA4-6) have been monitored semi-annually since 2006 through Spring 2020. In accordance with Condition 1 of EPA's April 9, 2020, conditional approval of GEs Fall 2019 GMA 4 and OPCA Report, starting in Fall 2020 8 wells are sampled semi-annually for sulfide. The maximum sulfide concentration historically detected was 14 mg/L in Fall 2002 in the sample from well H78B-15. The Fall 2022 sulfide results were within historical norms for the OPCAs.

5.3.3 Evaluation of GMA 4 and OPCA Analytical Data Summary Statistics

GE prepared statistical summaries of historical analytical results for monitoring wells included in the GMA 4 Long-Term Monitoring Program and the OPCA Post-Closure Program, which are also included in Appendix D.¹⁰ As indicated therein, the majority of the analyzed constituents are rarely detected or are detected at maximum or average concentrations an order of magnitude or more below the applicable GW-2 or GW-3 Performance Standards, benchmark levels, or MCP UCLs.

No constituent was detected in Fall 2022 at a new maximum well-specific concentration in GMA 4 samples.

Three constituents were detected in Fall 2022 at new maximum concentrations in OPCA samples, but these concentrations did not exceed the applicable GW-3 Performance Standards or GW-2 Performance Standard/benchmarks. These well/constituent pairs with maximum reported concentrations in Fall 2022 are:

- 78-1: Diethylphthalate (GW-3 criterion of 9 mg/L, GW-2 criterion of 50 mg/L) was detected for the second time in 46 sampling events at an estimated concentration of 0.0012 J mg/L, which is the maximum concentration reported. The arithmetic average concentration of diethylphthalate results from this well is 0.00339 mg/L.
- GMA4-6: Acetone (GW-3 criterion of 50 mg/L) was detected for the fourth time in 34 sampling events at a concentration of 0.054 mg/L, which is the maximum concentration reported. The arithmetic average concentration of acetone results from this well is 0.00128 mg/L.
- OPCA-MW-8: Dissolved Chromium (GW-3 criterion of 0.3 mg/L) was detected for 23rd time in 43 sampling events at an estimated concentration of 0.00680 J mg/L, which is the maximum concentration

¹⁰ For locations with duplicate and/or split sample analytical results, if there was a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency presented in these tables. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples, and primary samples each as a single result. One half of the associated reporting limit was used for any non-detect results in the summary statistics. In many cases in these tables, the median, arithmetic average, and geometric mean are higher than the maximum detected concentration. This is an artifact resulting from the use of one-half of the reporting limit for non-detected compounds in calculating these summary statistics and the fact that, for a number of historical analyses, the reporting limits were elevated relative to concentrations that were detected on other occasions.

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reported. The arithmetic average concentration of dissolved chromium results from this well is 0.00386 mg/L.

As shown in this section, all concentrations reported for these constituents in Fall 2022 were less than half of any applicable standards, and thus do not warrant additional discussion or actions.

6 MONITORING PROGRAM MODIFICATIONS AND SCHEDULE OF FUTURE ACTIVITIES

6.1 General

GE does not propose to make any modifications to the locations to be sampled or type of analyses to be performed as part of the GMA 4 Long-Term Monitoring Program and OPCA Post-Closure Program. The results of the evaluations conducted in this report do not require other program modifications. As noted in Section 3.4.2, the sulfide sample bottle for well OPCA-MW-7 was reported by the laboratory to have broken after the Fall 2022 monitoring period ended. Sulfide is infrequently detected in well OPCA-MW-7 (detected 4 of 38 sampling events) and will be sampled next in Fall 2024. This section also summarizes the field activities and schedule for upcoming monitoring events and the associated reporting activities.

6.2 Evaluation of the Need for Follow-up Investigations, Interim Response Actions, or Other Monitoring Program Modifications

GE does not propose any modifications to the locations to be sampled or type of analyses to be performed as part of the long-term monitoring program for the GMA 4 or the Post-Closure Program for the OPCAs.

6.2.1 Evaluation of Need for Follow-up Actions to Address Exceedances of GW-2 Standards

GMA 4

As previously noted, the results from GMA 4 wells are compared to the MCP Method 1 GW-2 standards only as informational benchmarks, not as Performance Standards. TCE has been detected in a sample from well H78B-16 at concentrations greater than the GW-2 benchmark value in 29 of 34 prior sampling events. The last event with a TCE concentration below the GW-2 benchmark at well H78B-16 was in Spring 2021. Concentrations detected in Fall 2022 and all prior sampling events were less than the GW-3 Performance Standards. No changes are proposed to the GMA 4 program based on these results.

OPCAs

Section 4.6.1 of the OPCA *Post-Closure Groundwater Monitoring Plan* requires that, if sampling results from a GW-2 compliance well indicate an exceedance of a GW-2 Performance Standard, or if constituent concentrations in such a well are greater than 50% of an applicable GW-2 Performance Standard and there is a statistically significant increase in concentrations (based on a statistical evaluation of the data), GE must propose appropriate response actions to address that exceedance.¹¹ None of the Fall 2022 laboratory

¹¹ Response actions for such exceedances may include: resampling of the groundwater; increasing the sampling frequency to quarterly; additional well installation (including sampling and analysis); soil gas sampling; desk-top modeling of potential volatilization of chemicals from the groundwater to the indoor air of nearby occupied buildings; sampling of the indoor air of such buildings; an evaluation of the potential risks related to volatilization to such indoor air; the development and proposal of a risk-based alternative GW-2 Performance Standard (if not already established); and/or active response actions (e.g., containment, recovery, or treatment of impacted groundwater).

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analytical results from the three OPCA monitoring wells used for assessing compliance with GW-2 Performance Standards (H78B-15, OPCA-MW-4, and OPCA-MW-5R) was reported at a concentration exceeding 50% the applicable GW-2 Performance Standard.

The OPCA *Post-Closure Groundwater Monitoring Plan* also requires that, if the results from any other OPCA sampling well exceed the levels of the GW-2 standards as a benchmark, GE must propose appropriate actions to further evaluate such exceedance(s) to EPA for approval. Such actions may include continued monitoring, increasing sample frequency, sampling or evaluation of downgradient wells, and/or other actions. PCE and TCE were detected in the Fall 2022 sample collected from well OPCA-MW-1RR at concentrations (0.48 [0.50], and 0.011 J [ND(<0.010 J)] mg/L, respectively) greater than the GW-2 benchmark levels of 0.05 mg/L and 0.005 mg/L, respectively (but not at concentrations greater than the GW-3 Performance Standards). The duplicate sample did not exceed the TCE GW-2 benchmark. While prior detections of PCE and TCE above the GW-2 benchmark levels have been observed in samples from this well, the Fall 2022 PCE and TCE concentrations were both less than the historical averages of 2.04 mg/L and 0.0464 mg/L, respectively. Based on PCE and TCE detections above benchmark levels in OPCA-MW-1RR, GE has already performed response actions as part of both the GMA 4 and OPCA monitoring programs. Specifically, GE installed monitoring well GMA4-8 at a location downgradient of well OPCA-MW-1RR and continues to sample that well as part of the GMA 4 Long-Term Monitoring Program. No PCE or TCE was detected in well GMA4-8 during the Fall 2022 sampling event. In fact, no PCE or TCE has ever been detected in that downgradient well during any of the 24 sampling events. Additionally, GE has evaluated the PCE and TCE results from downgradient well OPCA-MW-2R. Consistent with all prior sampling events, neither PCE nor TCE was detected in the Fall 2022 sample from well OPCA-MW-2R at a concentration greater than even 50% of the GW-2 benchmark. Further, these constituents have each been detected only once in 44 sampling events in samples from downgradient well OPCA-MW-2R.

Based on these results and the response action that were already performed, no additional response actions are proposed at this time to address these constituents at OPCA-MW-1RR. GE will continue to sample this well as part of the OPCA post-closure program and will re-evaluate the need for further actions in future monitoring event and trend evaluation reports.

6.2.2 Evaluation of Need for Follow-up Actions to Address Exceedances of GW-3 Standards

GMA 4

The Fall 2022 laboratory analytical results for GMA 4 wells showed no exceedances of GW-3 Performance Standards or benchmarks. Therefore, no response actions are necessary to address these data.

OPCAs

Section 4.6.2 of the OPCA *Post-Closure Groundwater Monitoring Plan* requires that, for each monitoring event, if the sampling data show an exceedance of a GW-3 Performance Standard at any of the OPCA wells, or if constituent concentrations are greater than 50% of those standards and there is a statistically significant increase in concentrations, GE must propose appropriate response actions to address that condition. Such response actions may include, but are not limited to, measures to remediate the groundwater, additional sampling to confirm or further evaluate the data, and/or further assessment of groundwater quality with regard to potential receptors.

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As noted in Sections 5.2.2 and 5.3.2, the Fall 2022 results from the OPCA monitoring wells showed no exceedances of GW-3 Performance Standards or benchmarks.

Consistent with prior EPA approvals, if dissolved cadmium concentrations in well OPCA-MW-1RR once again exceed the GW-3 Performance Standard **or** if such concentrations in well GMA4-6 exceed 50% of that Performance Standard and show an increasing trend, **and** (in either case) if dissolved cadmium concentrations in downgradient well OPCA-MW-2R exceed 50% of that Performance Standard, then GE will at that time evaluate the need for additional response actions. The Fall 2022 dissolved cadmium concentration in the sample from well OPCA-MW-1RR did not exceed the GW-3 Performance Standard and dissolved cadmium was not detected in downgradient wells GMA4-6 or OPCA-MW-2R (ND(<0.005) mg/L). No additional response actions are necessary to address dissolved cadmium in well OPCA-MW-1RR.

Wells 78-1 and OPCA-MW-7 each had a single historical anomalous exceedance of the GW-3 Performance Standard for dissolved cadmium. GE will continue to evaluate dissolved cadmium results for these wells and will conduct additional evaluations or propose response actions (as appropriate) if the average dissolved cadmium concentration at either of these wells remains greater than 50% of the GW-3 Performance Standard due to non-anomalous results and if increasing trends also exist, or if dissolved cadmium concentrations at these wells continuously exceed the GW-3 Performance Standard. Dissolved cadmium was detected at a concentration greater than 50% of the GW-3 standard in well 78-1 on only one occasion other than the single exceedance of that standard in Fall 2016. Dissolved cadmium has not been detected at a concentration greater than 50% of the GW-3 Performance Standards in well OPCA-MW-7, other than the single exceedance of that standard in Spring 2018. Additional evaluations or response actions are not necessary in response to dissolved cadmium concentrations in these wells, beyond ongoing monitoring downgradient of these wells.

6.3 Field Activities Schedule

GE anticipates that the Spring 2023 semi-annual long-term monitoring event for GMA 4 and post-closure groundwater sampling event for the OPCAs will begin in April 2023. In advance of groundwater sampling, a round of groundwater elevation monitoring at the GMA 4 and OPCA wells (and adjacent areas) where such monitoring is required will be performed. GE will coordinate the groundwater elevation monitoring within the shortest time window feasible so that the groundwater contour dataset is representative across adjacent GMAs. Groundwater sampling will be performed at the four GMA 4 Long-Term Monitoring Program wells and at the 12 OPCA Post-Closure Program wells listed in Table 1 and illustrated on Figure 2, with analyses for the constituent groups specified in Table 1. Where applicable, PDBs will be used to sample for VOCs and those PDBs will be retrieved and sampled at least two weeks after deployment.

Prior to performance of these field activities, GE will provide EPA with 7 days advance notice to allow the assignment of oversight personnel, preparations for split samples with EPA's contractor, and the collection by EPA of groundwater levels at the Allendale School property wells in conjunction with GE's groundwater elevation monitoring activities at the GMA 4 and OPCA wells (if desired).

6.4 Reporting Schedule

In accordance with the previously approved reporting schedule for this monitoring program, GE will submit combined GMA 4 and OPCA Monitoring Event Evaluation Reports within 60 days following receipt of the

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final analytical data packages from semi-annual periods that do not require biennial Long-Term Trend Evaluation Reports. Long-Term Trend Evaluation Reports for GMA 4 and the OPCAs will be prepared at two-year intervals over the duration of the Long-Term and Post-Closure Programs, unless an alternate schedule is proposed by GE and approved by EPA. The next Long-Term Trend Evaluation Report for GMA 4 and the OPCAs is scheduled to be submitted in place of the Spring 2023 Monitoring Event Evaluation Report. That report will be submitted within 75 days following receipt of the final analytical data packages from the Spring 2023 sampling event.

TABLES



Table 1
Groundwater Quality Monitoring Program Summary
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well ID	Monitoring Well Usage	Monitoring Frequency	Analyses						
			VOCs ²	PCBs	SVOCs	Sulfide ³	Cyanide ⁴	Metals	Dioxins/Furans ⁴
GMA4									
GMA4-8	GW-2 Benchmark Sentinel, GW-3 General/Source Area Sentinel	Semi-Annual	X (PDB) ²	NA	NA	NA	NA	NA	NA
GMA4-9	GW-2 Benchmark Sentinel, GW-3 Perimeter (Downgradient)	Semi-Annual	X (PDB) ²	NA	NA	NA	NA	NA	NA
H78B-16	GW-2 Benchmark Sentinel, GW-3 Perimeter (Downgradient)	Semi-Annual	X (PDB) ²	NA	NA	NA	NA	NA	NA
GMA4-7S	GW-2 Benchmark Sentinel, GW-3 Perimeter (Downgradient)	Semi-Annual	X (PDB) ²	NA	NA	NA	NA	NA	NA
OPCA									
78-1	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ⁴	X	X	X	NA	X ⁴	X	X ⁴
78-6R	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ⁴	X	X	X	NA	X ⁴	X	X ⁴
GMA4-6	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ⁴	X (PDB) ²	X	X	NA	X ⁴	X	X ⁴
H78B-15	GW-2 Compliance/ GW-3 Compliance	Semi-Annual ^{3,4}	X	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-1RR	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ^{3,4}	X	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-2R	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ^{3,4}	X (PDB) ²	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-3R	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ^{3,4}	X	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-4	GW-2 Compliance/ GW-3 Compliance	Semi-Annual ^{3,4}	X	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-5R	GW-2 Compliance/ GW-3 Compliance	Semi-Annual ^{3,4}	X (PDB) ²	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-6	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ^{3,4}	X	X	X	X ³	X ⁴	X	X ⁴
OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ^{3,4}	X (PDB) ²	X	X	X ^{3*}	X ⁴	X	X ⁴
OPCA-MW-8R	GW-2 Benchmark/ GW-3 Compliance	Semi-Annual ⁴	X	X	X	NA	X ⁴	X	X ⁴

Notes:

NA = Not Analyzed

VOCs = Volatile organic compounds analyzed by EPA Method 8260.

PCBs = Dissolved polychlorinated biphenyl aroclors by EPA Method 8082.

SVOCs = Semi-volatile organic compounds analyzed by EPA Method 8270.

Sulfide = Sulfide analyzed by EPA Method 9034.

Cyanide = Dissolved physiologically available cyanide (PAC) analyzed by EPA Method 9014 (MDEP PAC Protocol).

Metals = Dissolved inorganic analysis of 17 elements by EPA Methods 6010B, 7000A and 7470A.

Dioxins/Furans = Dioxins/Furans analyzed by EPA Method 8290.

PDB = Passive Diffusion Bag.

1. All GMA4 VOC samples were collected using passive diffusion bags. All OPCA VOC samples were collected via Low Flow, unless noted otherwise.
2. PDBs were used in accordance with EPA approval on a limited number of wells.
3. Sulfide will be sampled only in the Fall at a biennial (i.e., every other year) frequency at the wells indicated. Sulfide will next be sampled in Fall 2024.
4. Cyanide and Dioxins/Furans are sampled at a biennial (i.e., every other year) frequency in the Fall (next sampled in Fall 2024).
5. *The bottle for the sulfide sample from well OPCA-MW-7 broke after shipment. This well will be sampled for sulfide in Spring 2023.

Table 2
Groundwater Elevation Monitoring Program Summary
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Schedule
GMA 4 Monitoring Wells	
060B-R	Semi-Annual
GMA4-2	Semi-Annual
GMA4-3	Semi-Annual
H78B-16	Semi-Annual
H78B-17	Semi-Annual
NY-3	Semi-Annual
RF-14	Semi-Annual
RF-15R	Semi-Annual
UB-MW-5R	Semi-Annual
OPCA Sampling Wells	
78-1	Semi-Annual
78-6R	Semi-Annual
GMA4-6	Semi-Annual
H78B-15	Semi-Annual
OPCA-MW-1RR	Semi-Annual
OPCA-MW-2R	Semi-Annual
OPCA-MW-3R	Semi-Annual
OPCA-MW-4	Semi-Annual
OPCA-MW-5R	Semi-Annual
OPCA-MW-6	Semi-Annual
OPCA-MW-7	Semi-Annual
OPCA-MW-8R	Semi-Annual
Additional Nearby Wells Monitored (see Note 2)	
Wells Downgradient of GMA 4 (see Note 3)	
GMA4-7S	Semi-Annual
Additional Wells Monitored Under Post-Closure Program for the OPCAs	
78-2	Semi-Annual
78-3	Semi-Annual
GMA4-1	Semi-Annual
GMA4-4	Semi-Annual
GMA4-8	Semi-Annual
GMA4-9	Semi-Annual
H78B-13R	Semi-Annual
H78B-17R	Semi-Annual
NY-2	Semi-Annual
NY-4	Semi-Annual
UB-MW-6	Semi-Annual
East Street Area 2 - North (Groundwater Management Area 1) West of GMA 4 (see Note 4)	
ES1-05	Semi-Annual
ES1-20	Semi-Annual
Commercial Street Site Monitoring Well (see Note 5)	
GMA4-5	Semi-Annual
Allendale School Property Monitoring Wells/Piezometers North of GMA 4 (see Note 6)	
PZ-1	Semi-Annual
PZ-2	Semi-Annual
PZ-3	Semi-Annual
PZ-4	Semi-Annual
SCH-1	Semi-Annual

Notes:

1. The listed monitoring wells are monitored for groundwater elevation and NAPL presence at the frequencies shown.
2. These additional wells were monitored by GE or EPA as part of groundwater monitoring programs at groundwater management areas adjacent to the OPCAs. The data obtained at these wells was utilized to supplement monitoring results from the OPCA sampling wells and additional monitoring locations in the preparation of groundwater elevation contour mapping.
3. Well GMA4-7S is located downgradient of Groundwater Management Area 4, but is monitored and sampled as part of the GMA 4 program.
4. Well ES1-20 and ES1-05 are located in Groundwater Management Area 1, but also utilized as part of the GMA 4 groundwater elevation monitoring network.
5. Well GMA 4-5 is located on the Commercial Street site, but is monitored as part of the GMA 4 program.
6. The Allendale School Property Monitoring Wells/Piezometers are monitored by EPA.

Table 3
Monitoring Well Construction Summary
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Monitoring Well Number	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BGS)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
GMA 4 Monitoring Wells									
60B-R	536021.43	138133.03	2.00	1,003.18	1,002.89	12.14	10.00	991.04	981.04
78-4*	535014.00	136554.90	4.00	998.81	998.52	5.31	15.00	993.50	978.50
78-5R*	534944.00	136219.20	2.00	997.96	997.36	4.00	15.00	993.96	978.96
GMA4-2	536218.10	137516.30	2.00	1,006.56	1,006.30	9.93	10.00	996.63	986.63
GMA4-3	536289.20	137999.50	2.00	1,004.64	1,004.36	16.59	10.00	988.05	978.05
H78B-16	535040.80	136495.50	1.00	995.60	999.16	3.60	10.00	992.00	982.00
NY-3	535508.40	135077.10	2.00	1,005.79	1,005.30	10.12	15.00	995.67	980.67
RF-14	536833.60	137753.70	4.00	1,001.94	1,001.71	7.73	15.00	994.21	979.21
RF-15R	535631.90	137793.39	2.00	1,012.07	1,011.79	9.00	15.00	1,003.07	988.07
SCH-4*	535975.46	136030.74	2.00	1,012.27	1,014.05	7.90	10.00	1,004.37	994.37
UB-MW-5R	536359.53	137004.32	2.00	1,006.38	1,005.91	15.00	10.00	991.38	981.38
OPCA Sampling Wells									
78-1	536143.15	136344.91	4.00	1,026.53	1,026.32	7.13	15.00	1,019.40	1,004.40
78-6R	535909.40	135904.70	4.00	1,012.08	1,011.70	3.27	14.59	1,008.81	994.22
GMA4-6	535774.26	135658.77	2.00	1,009.67	1,009.32	3.05	10.00	1,006.62	996.62
H78B-15	535408.90	136705.20	0.75	1,010.30	1,012.68	6.50	10.00	1,003.80	993.80
OPCA-MW-1RR	535367.60	135561.10	2.00	1,016.63	1,016.42	18.00	10.00	998.63	988.63
OPCA-MW-2R	535176.60	135892.10	2.00	1,016.80	1,018.84	10.00	15.00	1,006.80	991.80
OPCA-MW-3R	535293.00	136185.15	2.00	1,015.35	1,014.95	14.35	30.00	1,001.01	971.01
OPCA-MW-4	535570.50	136222.30	2.00	1,019.27	1,018.67	12.07	10.00	1,007.20	997.20
OPCA-MW-5R	535630.00	136477.40	2.00	1,016.57	1,016.36	11.83	10.00	1,004.74	994.74
OPCA-MW-6	535449.70	136901.20	2.00	1,022.82	1,022.24	15.12	10.00	1,007.70	997.70
OPCA-MW-7	535673.70	136835.80	2.00	1,027.26	1,026.54	14.36	10.00	1,012.90	1,002.90
OPCA-MW-8R	535981.60	136687.00	4.00	1,028.80	1,030.70	5.10	20.00	1,023.70	1,003.70
Additional Nearby Wells Monitored (see Note 3)									
Wells Downgradient of GMA 4 (see Note 4)									
GMA4-7S	534591.50	136528.70	2.00	999.90	1,001.64	10.00	15.00	989.90	974.90
GMA4-7D*	534592.50	136535.50	2.00	1,000.00	1,002.15	25.00	15.00	975.00	960.00
Additional Wells Monitored Under Post-Closure Program for the OPCAs									
78-2	536411.70	136892.70	4.00	1,034.92	1,034.42	6.02	15.00	1,028.90	1,013.90
78-3	535126.60	137132.70	3.00	1,007.21	1,006.85	9.85	15.00	997.36	982.36
GMA4-1	535134.40	136407.20	2.00	1,012.35	1,012.01	13.30	15.00	999.05	984.05

Table 3
Monitoring Well Construction Summary
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Monitoring Well Number	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BGS)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
Additional Wells Monitored Under Post-Closure Program for the OPCAs (cont.)									
GMA4-4	535332.20	135149.40	2.00	996.55	999.64	4.95	15.00	991.60	976.60
GMA4-8	535107.40	135562.70	2.00	1,020.90	1,020.42	10.00	22.00	1,010.90	988.90
GMA4-9	535004.40	136153.10	2.00	1,000.00	1,002.28	3.00	12.00	997.00	985.00
H78B-13R	534740.20	135327.90	2.00	993.23	992.93	5.00	15.00	988.23	973.23
H78B-17R	534995.69	136658.83	4.00	999.60	1,000.62	14.70	9.30	984.90	975.60
NY-2	534802.40	135675.80	4.00	993.70	996.54	9.50	15.00	984.20	969.20
NY-4	535669.20	135360.10	2.00	1,024.54	1,024.69	17.00	15.00	1,007.54	992.54
UB-MW-6	535541.50	137463.00	2.00	1,021.09	1,020.12	26.54	10.00	994.55	984.55
East Street Area 2 - North (Groundwater Management Area 1) West of GMA 4 (see Note 5)									
ES1-05	534749.31	135063.74	2.00	1,023.25	1,022.75	34.86	10.00	988.39	978.39
ES1-20	535314.82	134924.90	0.75	997.94	1,001.59	6.12	10.00	991.82	981.82
Commercial Street Site Monitoring Well (see Note 6)									
GMA4-5	534525.10	136816.60	2.00	993.28	993.16	7.72	10.00	985.56	975.56
Allendale School Property Monitoring Wells/Piezometers (see Note 7)									
PZ-1	535900.23	135753.22	1.00	NR	1,005.60	NR	NR	NR	NR
PZ-2	536112.14	135563.58	1.00	NR	1,009.89	NR	NR	NR	NR
PZ-3	536396.28	135728.63	1.00	NR	1,010.43	NR	NR	NR	NR
PZ-4	536116.06	136119.15	1.00	NR	1,007.96	NR	NR	NR	NR
SCH-1	536574.57	135606.24	2.00	NR	1,017.11	NR	NR	NR	NR

Notes:

1. ft AMSL = Feet above mean sea level.
2. ft BGS = Feet below ground surface.
3. These additional wells were monitored by GE or EPA as part of groundwater monitoring programs at groundwater management areas adjacent to the OPCAs. The data obtained at these wells was utilized to supplement monitoring results from the OPCA sampling wells and additional monitoring locations in the preparation of groundwater elevation contour mapping.
4. Well GMA4-7S is located downgradient of Groundwater Management Area 4, but is monitored and sampled as part of the GMA 4 program.
5. Well ES1-20 and ES1-05 are located in Groundwater Management Area 1, but also utilized as part of the GMA 4 groundwater elevation monitoring network.
6. Well GMA 4-5 is located on the Commercial Street site, but is monitored as part of the GMA 4 program.
7. The Allendale School Property Monitoring Wells/Piezometers are monitored by EPA.
8. NR = Not Recorded.
9. * = Well is not currently part of the monitoring or sampling programs.
10. The following wells were changed as noted:
 RF-14 construction information was updated following approval of the GMA 4/OPCA Spring 2022 Report.

Table 4
Groundwater Elevation Data - Fall 2022
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

Well Number	Date	Ground Surface Elevation (Feet AMSL)	Measuring Point Elevation (Feet AMSL)	Fall 2022 Depth to Water (Feet BMP)	Fall 2022 Groundwater Elevation (Feet AMSL)
GMA 4 Monitoring Wells					
60B-R	10/20/2022	1,003.18	1,002.89	16.71	986.18
GMA4-2	10/20/2022	1,006.56	1,006.30	13.06	993.24
GMA4-3	10/20/2022	1,004.64	1,004.36	18.64	985.72
H78B-16	10/20/2022	995.60	999.16	11.92	987.24
NY-3	10/20/2022	1,005.79	1,005.30	2.82	1002.48
RF-14	10/20/2022	1,001.94	1,001.71	10.41	991.30
RF-15R	10/20/2022	1,012.61	1,012.18	16.20	995.98
UB-MW-5R	10/20/2022	1,006.38	1,005.91	15.36	990.55
OPCA Sampling Wells					
78-1	10/20/2022	1,026.53	1,026.32	12.53	1013.79
78-6R	10/20/2022	1,012.08	1,011.70	7.58	1004.12
GMA4-6	10/20/2022	1,009.67	1,009.32	10.16	999.16
H78B-15	10/20/2022	1,010.30	1,012.68	15.44	997.24
OPCA-MW-1RR	10/20/2022	1,016.63	1,016.42	17.33	999.09
OPCA-MW-2R	10/20/2022	1,016.80	1,018.84	23.58	995.26
OPCA-MW-3R	10/20/2022	1,015.35	1,014.95	22.55	992.40
OPCA-MW-4	10/20/2022	1,019.27	1,018.67	12.33	1006.34
OPCA-MW-5R	10/20/2022	1,016.57	1,016.36	13.10	1003.26
OPCA-MW-6	10/20/2022	1,022.82	1,022.24	18.69	1003.55
OPCA-MW-7	10/20/2022	1,027.26	1,026.54	22.20	1004.34
OPCA-MW-8R	10/20/2022	1,028.80	1,030.70	19.52	1011.18
Additional Nearby Wells Monitored (see Note 4)					
Wells Downgradient of GMA 4 (see Note 5)					
GMA4-7S	10/20/2022	999.90	1,001.64	17.16	984.48
Additional Wells Monitored Under Post-Closure Program for the OPCAs					
78-2	10/20/2022	1,034.92	1,034.42	11.27	1023.15
78-3	10/20/2022	1,007.21	1,006.85	17.49	989.36
GMA4-1	10/20/2022	1,012.35	1,012.01	22.81	989.20
GMA4-4	10/20/2022	996.55	999.64	14.04	985.60
GMA4-8	10/20/2022	1,020.90	1,020.42	25.83	994.59
GMA4-9	10/20/2022	1,000.00	1,002.28	9.43	992.85
H78B-13R	10/20/2022	993.23	992.93	12.89	980.04
H78B-17R	10/20/2022	999.60	1,000.62	13.14	987.48
NY-2	10/20/2022	993.70	996.54	17.97	978.57
NY-4	10/20/2022	1,024.54	1,024.69	22.21	1002.48
UB-MW-6	10/20/2022	1,021.09	1,020.12	21.32	998.80
East Street Area 2 - North (Groundwater Management Area 1) West of GMA 4 (see Note 6)					
ES1-05	10/20/2022	1,023.25	1,022.75	36.88	985.87
ES1-20	10/20/2022	997.94	1,001.59	19.91	981.68
Commercial Street Site Monitoring Well (see Note 7)					
GMA4-5	10/20/2022	993.28	993.16	11.83	981.33
Allendale School Property Monitoring Wells/Piezometers (see Note 8)					
PZ-1	10/20/2022	NR	1,005.60	3.75	1001.85
PZ-2	10/20/2022	NR	1,009.89	0.85	1009.04
PZ-3	10/20/2022	NR	1,010.43	0.19	1010.24
PZ-4	10/20/2022	NR	1,007.96	0.50	1007.46
SCH-1	10/20/2022	NR	1,017.11	5.45	1011.66

Table 4
Groundwater Elevation Data - Fall 2022
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

Notes:

1. AMSL = Above mean sea level.
2. BMP = Below Measuring Point
3. NR = Not Recorded
4. These additional wells were monitored by GE or EPA as part of groundwater monitoring programs at groundwater management areas adjacent to the OPCAs. The data obtained at these wells was utilized to supplement monitoring results from the OPCA sampling wells and additional monitoring locations in the preparation of groundwater elevation contour mapping.
5. Well GMA4-7S is located downgradient of Groundwater Management Area 4, but is monitored and sampled as part of the GMA 4 program.
6. Well ES1-20 and ES1-05 are located in Groundwater Management Area 1, but also utilized as part of the GMA 4 groundwater elevation monitoring network.
7. Well GMA 4-5 is located on the Commercial Street site, but is monitored as part of the GMA 4 program.
8. The Allendale School Property Monitoring Wells/Piezometers are monitored by EPA.

Table 5
Field Parameter Measurements - Fall 2022
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well ID	Date of Sampling	Temperature (Degrees Celsius)	pH (standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
GMA 4 Monitoring Wells							
GMA4-7S (PDB)	12/1/2022	12.30	6.96	0.641	89.50	4.81	231.4
GMA4-8 (PDB)	12/1/2022	11.80	6.60	1.311	81.50	1.23	189.3
GMA4-9 (PDB)	12/1/2022	9.80	6.86	0.794	69.20	1.40	259.8
H78B-16 (PDB)	12/1/2022	10.90	6.85	0.884	475.00	3.69	245.7
OPCA Sampling Wells							
78-1	11/3/2022	16.00	6.99	0.920	0.30	0.62	40.7
78-6R	11/1/2022	14.10	7.02	2.300	1.37	0.40	-31.4
GMA4-6	11/1/2022	14.90	7.27	0.851	17.60	1.31	-65.1
GMA4-6 (PDB)	12/1/2022	11.60	6.85	1.080	43.60	2.99	189.3
H78B-15	11/2/2022	14.50	6.69	0.611	0.69	5.13	123.9
OPCA-MW-1RR	10/31/2022	16.20	7.66	1.076	8.16	0.65	100.9
OPCA-MW-2R	11/3/2022	16.60	6.54	0.813	10.20	1.83	147.4
OPCA-MW-2R (PDB)	12/1/2022	12.00	6.44	0.693	111.00	2.85	216.8
OPCA-MW-3R	10/31/2022	15.30	6.62	0.777	1.53	0.35	148.9
OPCA-MW-4	11/3/2022	13.50	6.98	0.749	1.28	2.35	114.4
OPCA-MW-5R (PDB)	12/1/2022	13.20	6.26	0.190	237.00	7.45	249.2
OPCA-MW-6	11/1/2022	12.40	7.30	6.440	2.34	2.88	141.7
OPCA-MW-7	11/2/2022	13.10	7.04	1.049	102.00	5.27	163.2
OPCA-MW-7 (PDB)	12/1/2022	11.70	7.13	1.093	499.00	3.50	-109.7
OPCA-MW-8R	11/2/2022	14.20	7.42	2.878	48.60	5.36	123.4

Notes:

PDB = Passive Diffusion Bag

1. The readings above are the final parameters recorded during purging, unless otherwise indicated.
2. The readings indicated by (PDB) above are the parameters at the time of PDB collection.

Table 6a
Summary of Groundwater Monitoring Area 4 Groundwater Sample Analytical Results - Fall 2022
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Well type: Date Collected: Location ID:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Sentinel, GW-3 Perimeter (Downgradient) 12/01/22 GMA4-7S	GW-2 Sentinel, GW-3 General/Source Area Sentinel 12/01/22 GMA4-8	GW-2 Sentinel, GW-3 Perimeter (Downgradient) 12/01/22 GMA4-9	GW-2 Sentinel, GW-3 Perimeter (Downgradient) 12/01/22 H78B-16
Detected Volatile Organics							
Acetone	50	50	100	0.010 J	0.014 J [0.014 J]	0.027 J	ND(0.13)
Tetrachloroethene	0.05	30	100	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0022	0.0023 J
Trichloroethene	0.005	5	50	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0020)	0.21
Total VOCs	--	--	5	0.010 J	0.014 J [0.014 J]	0.029 J	0.21 J

Notes:

1. Samples were collected by Arcadis and submitted to SGS Environmental Services, Inc. for laboratory analysis in Fall 2022.
2. Samples have been validated as per GE's Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP) (revised on July 2, 2013 and approved by EPA on July 23, 2013) and FSP/QAPP Addendum (submitted August 23, 2017, and approved by EPA on August 28, 2017).
3. Only those constituents detected in one or more samples are summarized.
4. Field duplicate sample results are presented in brackets.
5. Total VOCs at GW-2 wells are being compared to the notification level in the SOW of 5 ppm, as there is no GW-2 standard for Total VOCs.
6. ND = Analyte was not detected. The number in parenthesis is the associated reporting limit.
7. NL = Not Listed.
8. SAS = Source Area Sentinel.
9. Bold values indicate a benchmark exceedance.

Data Qualifiers:

Organics (volatiles):

J - Indicates that the associated numerical value is an estimated concentration.

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts



Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Benchmark/ GW-3 Compliance 11/03/22 78-1	GW-2 Benchmark/ GW-3 Compliance 11/01/22 78-6R	GW-2 Benchmark/ GW-3 Compliance 11/02/22 GMA4-6	GW-2 Benchmark/ GW-3 Compliance 12/01/22 GMA4-6	GW-2 Compliance/ GW-3 Compliance 11/02/22 H78B-15
PCBs-Filtered									
Aroclor 1254	mg/L	--	--	--	ND(0.00038)	ND(0.00040)	ND(0.00042)	NA	ND(0.00038)
Polychlorinated biphenyls	mg/L	0.005	0.01	0.1	ND(0.00038 J)	ND(0.00040 J)	ND(0.00042 J)	NA	ND(0.00038 J)
Volatile Organics									
Acetone	mg/L	50	50	100	ND(0.025)	ND(0.025)	NA	0.054	ND(0.025)
Methylene Chloride	mg/L	2	50	100	ND(0.0050)	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Tetrachloroethene	mg/L	0.05	30	100	ND(0.0010)	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	0.005	5	50	ND(0.0010)	ND(0.0010 J)	NA	ND(0.0010)	ND(0.0010)
Total VOCs	mg/L	--	--	5	ND(0.20)	ND(0.20)	NA	0.054	ND(0.20)
Semivolatile Organics									
Diethylphthalate	mg/L	50	9	100	0.0012 J	ND(0.0050)	ND(0.0051)	NA	ND(0.0049)
Naphthalene	mg/L	0.7	20	100	ND(0.0049)	ND(0.0050)	ND(0.0051)	NA	ND(0.0049)
Metals-Filtered									
Antimony	mg/L	--	8	80	ND(0.00600)	0.00110 J	ND(0.00600)	NA	ND(0.00600)
Barium	mg/L	--	50	100	0.0236 J	0.0654 J	0.00580 J	NA	0.00580 J
Cadmium	mg/L	--	0.004	0.05	ND(0.00500)	ND(0.00500)	ND(0.00500)	NA	ND(0.00500)
Chromium	mg/L	--	0.3	3	ND(0.0100)	ND(0.0100)	ND(0.0100)	NA	ND(0.0100)
Cobalt	mg/L	--	0.075	--	ND(0.0500)	0.000400 J	0.000300 J	NA	ND(0.0500)
Copper	mg/L	--	0.23	--	ND(0.0250)	ND(0.0250)	ND(0.0250)	NA	0.00110 J
Mercury	mg/L	--	0.02	0.2	ND(0.000500)	ND(0.000500)	ND(0.000500)	NA	ND(0.000500)
Nickel	mg/L	--	0.2	2	ND(0.0400)	ND(0.0400)	0.00180 J	NA	ND(0.0400)
Silver	mg/L	--	0.007	1	ND(0.0100)	0.00110 J	ND(0.0100)	NA	ND(0.0100)
Thallium	mg/L	--	3	30	ND(0.0100)	ND(0.0100)	ND(0.0100)	NA	ND(0.0100)
Tin	mg/L	--	--	--	ND(0.0500)	ND(0.0500)	ND(0.0500)	NA	0.00150 J
Dioxins/Furans									
1,2,3,4,6,7,8-Heptachlorodibenzofuran	mg/L	--	--	--	ND(0.000000015)	0.0000000386 JNX	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000262)	0.0000000592 JNX	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,4,7,8,9-Heptachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000167)	0.00000000598 J	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,4,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000159)	0.00000000391 JNX	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000291)	ND(0.0000000239)	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.000000017)	0.00000000408 J	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000299)	ND(0.0000000239)	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,7,8,9-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000209)	0.00000000528 JNX	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000317)	0.00000000668 J	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000167)	ND(0.0000000239)	ND(0.000000026)	NA	ND(0.0000000238)
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000251)	ND(0.0000000239)	ND(0.000000026)	NA	ND(0.0000000238)
2,3,4,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000175)	0.00000000571 J	ND(0.000000026)	NA	ND(0.0000000238)
2,3,4,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000162)	ND(0.0000000239)	ND(0.000000026)	NA	ND(0.0000000238)
2,3,7,8-Tetrachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000376)	ND(0.0000000478)	ND(0.000000052)	NA	ND(0.0000000475)

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Benchmark/ GW-3 Compliance 11/03/22 78-1	GW-2 Benchmark/ GW-3 Compliance 11/01/22 78-6R	GW-2 Benchmark/ GW-3 Compliance 11/02/22 GMA4-6	GW-2 Benchmark/ GW-3 Compliance 12/01/22 GMA4-6	GW-2 Compliance/ GW-3 Compliance 11/02/22 H78B-15
Dioxins/Furans (cont.)									
2,3,7,8-Tetrachlorodibenzo-p-dioxin	mg/L	--	--	--	ND(0.00000000546)	ND(0.00000000478)	ND(0.0000000052)	NA	ND(0.00000000475)
Heptachlorodibenzofurans	mg/L	--	--	--	ND(0.0000000158)	0.00000000985	ND(0.0000000121)	NA	ND(0.0000000155)
Heptachlorodibenzo-p-dioxins	mg/L	--	--	--	ND(0.0000000262)	ND(0.0000000249)	ND(0.0000000185)	NA	ND(0.0000000174)
Hexachlorodibenzofurans	mg/L	--	--	--	ND(0.0000000177)	0.000000019	ND(0.0000000136)	NA	ND(0.0000000169)
Hexachlorodibenzo-p-dioxins	mg/L	--	--	--	ND(0.0000000302)	0.0000000668	ND(0.000000017)	NA	ND(0.0000000195)
Octachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000334)	0.000000107 JNX	ND(0.000000052)	NA	ND(0.0000000475)
Octachlorodibenzo-p-dioxin	mg/L	--	--	--	ND(0.0000000425)	0.000000154 JNX	0.000000141 J	NA	ND(0.0000000475)
Pentachlorodibenzofurans, Total	mg/L	--	--	--	ND(0.0000000164)	ND(0.000000029)	ND(0.0000000149)	NA	ND(0.0000000177)
Pentachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	ND(0.0000000251)	ND(0.0000000345)	ND(0.0000000154)	NA	ND(0.0000000306)
Tetrachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000376)	ND(0.0000000248)	ND(0.000000019)	NA	ND(0.0000000218)
Tetrachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	ND(0.0000000546)	ND(0.0000000435)	ND(0.0000000237)	NA	ND(0.0000000307)
WHO TEQ	mg/L	--	0.00004	0.0004	0.0000000109	0.0000000498	0.000000065	NA	0.0000000595
GenChem									
Cyanide-MADEP (PAC)	mg/L	2	--	0.03	ND(0.005)	ND(0.005)	ND(0.005)	NA	ND(0.005)
Sulfide	mg/L	--	--	--	NA	NA	NA	NA	ND(2.0)

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts



Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Benchmark/ GW-3 Compliance 10/31/22 OPCA-MW-1RR	GW-2 Benchmark/ GW-3 Compliance 11/04/22 OPCA-MW-2R	GW-2 Benchmark/ GW-3 Compliance 12/01/22 OPCA-MW-2R	GW-2 Benchmark/ GW-3 Compliance 10/31/22 OPCA-MW-3R
PCBs-Filtered								
Aroclor 1254	mg/L	--	--	--	ND(0.00038) [ND(0.00038)]	ND(0.00038)	NA	ND(0.00042)
Polychlorinated biphenyls	mg/L	0.005	0.01	0.1	ND(0.00038 J) [ND(0.00038 J)]	ND(0.00038 J)	NA	ND(0.00042 J)
Volatile Organics								
Acetone	mg/L	50	50	100	ND(0.25) [ND(0.25)]	NA	ND(0.25) [ND(0.25)]	ND(0.25)
Methylene Chloride	mg/L	2	50	100	0.033 J [0.030 J]	NA	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Tetrachloroethene	mg/L	0.05	30	100	0.48 [0.50]	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichloroethene	mg/L	0.005	5	50	0.011 J [ND(0.010 J)]	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010 J)
Total VOCs	mg/L	--	--	5	0.53 J [0.53 J]	NA	ND(0.20) [ND(0.20)]	ND(0.20)
Semivolatile Organics								
Diethylphthalate	mg/L	50	9	100	ND(0.0049) [ND(0.0049)]	ND(0.0049)	NA	ND(0.0049)
Naphthalene	mg/L	0.7	20	100	ND(0.0049) [ND(0.0049)]	ND(0.0049)	NA	ND(0.0049)
Metals-Filtered								
Antimony	mg/L	--	8	80	ND(0.00600) [ND(0.00600)]	ND(0.00600)	NA	ND(0.00600)
Barium	mg/L	--	50	100	0.0279 J [0.0277 J]	0.0237 J	NA	0.0865 J
Cadmium	mg/L	--	0.004	0.05	0.000800 J [0.000800 J]	ND(0.00500)	NA	ND(0.00500)
Chromium	mg/L	--	0.3	3	ND(0.0100) [ND(0.0100)]	ND(0.0100)	NA	ND(0.0100)
Cobalt	mg/L	--	0.075	--	ND(0.0500) [ND(0.0500)]	ND(0.0500)	NA	0.000800 J
Copper	mg/L	--	0.23	--	ND(0.0250) [0.00170 J]	ND(0.0250)	NA	0.00220 J
Mercury	mg/L	--	0.02	0.2	ND(0.000500) [0.0000910 J]	ND(0.000500)	NA	ND(0.000500)
Nickel	mg/L	--	0.2	2	ND(0.0400) [ND(0.0400)]	ND(0.0400)	NA	0.00380 J
Silver	mg/L	--	0.007	1	ND(0.0100) [ND(0.0100)]	ND(0.0100)	NA	ND(0.0100)
Thallium	mg/L	--	3	30	ND(0.0100) [ND(0.0100)]	ND(0.0100)	NA	0.00500 J
Tin	mg/L	--	--	--	ND(0.0500) [ND(0.0500)]	ND(0.0500)	NA	ND(0.0500)
Dioxins/Furans								
1,2,3,4,6,7,8-Heptachlorodibenzofuran	mg/L	--	--	--	0.0000000268 J [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,4,7,8,9-Heptachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,4,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,7,8,9-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
2,3,4,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
2,3,4,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	ND(0.000000024) [ND(0.0000000238)]	ND(0.000000024)	NA	ND(0.000000024)
2,3,7,8-Tetrachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000481) [ND(0.0000000476)]	ND(0.000000048)	NA	ND(0.0000000481)

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts



Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Benchmark/ GW-3 Compliance 10/31/22 OPCA-MW-1RR	GW-2 Benchmark/ GW-3 Compliance 11/04/22 OPCA-MW-2R	GW-2 Benchmark/ GW-3 Compliance 12/01/22 OPCA-MW-2R	GW-2 Benchmark/ GW-3 Compliance 10/31/22 OPCA-MW-3R
Dioxins/Furans (cont.)								
2,3,7,8-Tetrachlorodibenzo-p-dioxin	mg/L	--	--	--	ND(0.00000000481) [ND(0.00000000476)]	ND(0.0000000048)	NA	ND(0.00000000481)
Heptachlorodibenzofurans	mg/L	--	--	--	0.00000000268 [ND(0.00000000145)]	ND(0.00000000134)	NA	ND(0.00000000143)
Heptachlorodibenzo-p-dioxins	mg/L	--	--	--	ND(0.00000000238) [ND(0.00000000236)]	ND(0.00000000144)	NA	ND(0.00000000195)
Hexachlorodibenzofurans	mg/L	--	--	--	ND(0.00000000177) [ND(0.00000000226)]	ND(0.00000000173)	NA	ND(0.00000000197)
Hexachlorodibenzo-p-dioxins	mg/L	--	--	--	ND(0.00000000292) [ND(0.00000000318)]	ND(0.00000000233)	NA	ND(0.00000000214)
Octachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000481) [ND(0.0000000476)]	ND(0.000000048)	NA	ND(0.0000000481)
Octachlorodibenzo-p-dioxin	mg/L	--	--	--	ND(0.0000000481) [ND(0.0000000476)]	0.0000000087 JNX	NA	0.00000000524 JNX
Pentachlorodibenzofurans, Total	mg/L	--	--	--	ND(0.00000000199) [ND(0.00000000271)]	ND(0.00000000177)	NA	ND(0.00000000215)
Pentachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	ND(0.0000000021) [ND(0.00000000236)]	ND(0.00000000234)	NA	ND(0.00000000226)
Tetrachlorodibenzofuran	mg/L	--	--	--	ND(0.00000000325) [ND(0.00000000263)]	ND(0.00000000288)	NA	ND(0.00000000257)
Tetrachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	ND(0.00000000427) [ND(0.00000000495)]	ND(0.00000000425)	NA	ND(0.0000000048)
WHO TEQ	mg/L	--	0.00004	0.0004	0.0000000598 [0.0000000595]	0.00000006	NA	0.00000006
GenChem								
Cyanide-MADEP (PAC)	mg/L	2	--	0.03	ND(0.005) [ND(0.005)]	ND(0.005)	NA	ND(0.005)
Sulfide	mg/L	--	--	--	0.90 J [0.71 J]	ND(2.0)	NA	ND(2.0 J)

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts



Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Compliance/ GW-3 Compliance 11/03/22 OPCA-MW-4	GW-2 Compliance/ GW-3 Compliance 11/04/22 OPCA-MW-5R	GW-2 Compliance/ GW-3 Compliance 12/01/22 OPCA-MW-5R	GW-2 Benchmark/ GW-3 Compliance 11/01/22 OPCA-MW-6	GW-2 Benchmark/ GW-3 Compliance 11/03/22 OPCA-MW-7
PCBs-Filtered									
Aroclor 1254	mg/L	--	--	--	0.00046	ND(0.00038)	NA	ND(0.00040)	NA
Polychlorinated biphenyls	mg/L	0.005	0.01	0.1	0.00046	ND(0.00038 J)	NA	ND(0.00040 J)	NA
Volatile Organics									
Acetone	mg/L	50	50	100	ND(0.025)	NA	0.034	ND(0.025)	NA
Methylene Chloride	mg/L	2	50	100	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA
Tetrachloroethene	mg/L	0.05	30	100	ND(0.0010)	NA	ND(0.0010)	ND(0.0010 J)	NA
Trichloroethene	mg/L	0.005	5	50	0.00091 J	NA	ND(0.0010)	ND(0.0010)	NA
Total VOCs	mg/L	--	--	5	0.00091 J	NA	0.034	ND(0.20)	NA
Semivolatile Organics									
Diethylphthalate	mg/L	50	9	100	ND(0.0049)	ND(0.0049)	NA	ND(0.0049)	NA
Naphthalene	mg/L	0.7	20	100	ND(0.0049)	0.00093 J	NA	ND(0.0049)	NA
Metals-Filtered									
Antimony	mg/L	--	8	80	0.00150 J	ND(0.00600)	NA	0.00160 J	0.00170 J
Barium	mg/L	--	50	100	0.0209 J	0.0291 J	NA	0.159 J	0.0140 J
Cadmium	mg/L	--	0.004	0.05	0.00100 J	0.00190 J	NA	ND(0.00500)	0.000500 J
Chromium	mg/L	--	0.3	3	ND(0.0100)	ND(0.0100)	NA	ND(0.0100)	0.00370 J
Cobalt	mg/L	--	0.075	--	ND(0.0500)	ND(0.0500)	NA	ND(0.0500)	0.000200 J
Copper	mg/L	--	0.23	--	ND(0.0250)	0.00260 J	NA	ND(0.0250)	ND(0.0250)
Mercury	mg/L	--	0.02	0.2	ND(0.000500)	ND(0.000500)	NA	ND(0.000500)	ND(0.000500)
Nickel	mg/L	--	0.2	2	ND(0.0400)	ND(0.0400)	NA	ND(0.0400)	0.0167 J
Silver	mg/L	--	0.007	1	ND(0.0100)	ND(0.0100)	NA	ND(0.0100)	ND(0.0100)
Thallium	mg/L	--	3	30	ND(0.0100)	ND(0.0100)	NA	ND(0.0100)	ND(0.0100)
Tin	mg/L	--	--	--	ND(0.0500)	ND(0.0500)	NA	ND(0.0500)	ND(0.0500)
Dioxins/Furans									
1,2,3,4,6,7,8-Heptachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,4,7,8,9-Heptachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,4,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,7,8,9-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
2,3,4,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
2,3,4,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000238)	ND(0.0000000238)	NA	ND(0.000000024)	NA
2,3,7,8-Tetrachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000476)	ND(0.0000000476)	NA	ND(0.000000048)	NA

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Compliance/ GW-3 Compliance 11/03/22 OPCA-MW-4	GW-2 Compliance/ GW-3 Compliance 11/04/22 OPCA-MW-5R	GW-2 Compliance/ GW-3 Compliance 12/01/22 OPCA-MW-5R	GW-2 Benchmark/ GW-3 Compliance 11/01/22 OPCA-MW-6	GW-2 Benchmark/ GW-3 Compliance 11/03/22 OPCA-MW-7
Dioxins/Furans (cont.)									
2,3,7,8-Tetrachlorodibenzo-p-dioxin	mg/L	--	--	--	ND(0.00000000476)	ND(0.00000000476)	NA	ND(0.0000000048)	NA
Heptachlorodibenzofurans	mg/L	--	--	--	ND(0.00000000152)	ND(0.00000000153)	NA	ND(0.00000000144)	NA
Heptachlorodibenzo-p-dioxins	mg/L	--	--	--	ND(0.00000000218)	ND(0.00000000183)	NA	ND(0.0000000021)	NA
Hexachlorodibenzofurans	mg/L	--	--	--	ND(0.00000000193)	ND(0.00000000161)	NA	ND(0.00000000142)	NA
Hexachlorodibenzo-p-dioxins	mg/L	--	--	--	ND(0.00000000303)	ND(0.00000000239)	NA	ND(0.00000000266)	NA
Octachlorodibenzofuran	mg/L	--	--	--	ND(0.00000000476)	ND(0.00000000476)	NA	ND(0.0000000048)	NA
Octachlorodibenzo-p-dioxin	mg/L	--	--	--	ND(0.00000000476)	ND(0.00000000476)	NA	ND(0.0000000048)	NA
Pentachlorodibenzofurans, Total	mg/L	--	--	--	ND(0.00000000212)	ND(0.00000000187)	NA	ND(0.00000000204)	NA
Pentachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	ND(0.0000000026)	ND(0.00000000287)	NA	ND(0.00000000277)	NA
Tetrachlorodibenzofuran	mg/L	--	--	--	ND(0.0000000029)	ND(0.000000003)	NA	ND(0.00000000165)	NA
Tetrachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	ND(0.00000000473)	ND(0.00000000614)	NA	ND(0.00000000394)	NA
WHO TEQ	mg/L	--	0.00004	0.0004	0.00000000595	0.00000000595	NA	0.00000006	NA
GenChem									
Cyanide-MADEP (PAC)	mg/L	2	--	0.03	ND(0.005)	ND(0.005)	NA	ND(0.005)	ND(0.005)
Sulfide	mg/L	--	--	--	ND(2.0)	ND(2.0)	NA	ND(2.0)	NA

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Benchmark/ GW-3 Compliance 11/05/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 11/08/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 11/09/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 12/01/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 11/02/22 OPCA-MW-8R
PCBs-Filtered									
Aroclor 1254	mg/L	--	--	--	0.00054	NA	NA	NA	ND(0.00038)
Polychlorinated biphenyls	mg/L	0.005	0.01	0.1	0.00054	NA	NA	NA	ND(0.00038 J)
Volatile Organics									
Acetone	mg/L	50	50	100	NA	NA	NA	0.040	ND(0.025)
Methylene Chloride	mg/L	2	50	100	NA	NA	NA	ND(0.0050)	ND(0.0050)
Tetrachloroethene	mg/L	0.05	30	100	NA	NA	NA	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	0.005	5	50	NA	NA	NA	ND(0.0010)	ND(0.0010)
Total VOCs	mg/L	--	--	5	NA	NA	NA	0.040	ND(0.20)
Semivolatile Organics									
Diethylphthalate	mg/L	50	9	100	NA	ND(0.0049 J)	NA	NA	ND(0.0049)
Naphthalene	mg/L	0.7	20	100	NA	ND(0.0049 J)	NA	NA	ND(0.0049)
Metals-Filtered									
Antimony	mg/L	--	8	80	NA	NA	NA	NA	ND(0.00600)
Barium	mg/L	--	50	100	NA	NA	NA	NA	0.0603 J
Cadmium	mg/L	--	0.004	0.05	NA	NA	NA	NA	ND(0.00500)
Chromium	mg/L	--	0.3	3	NA	NA	NA	NA	0.00680 J
Cobalt	mg/L	--	0.075	--	NA	NA	NA	NA	ND(0.0500)
Copper	mg/L	--	0.23	--	NA	NA	NA	NA	ND(0.0250)
Mercury	mg/L	--	0.02	0.2	NA	NA	NA	NA	ND(0.000500)
Nickel	mg/L	--	0.2	2	NA	NA	NA	NA	0.00490 J
Silver	mg/L	--	0.007	1	NA	NA	NA	NA	ND(0.0100)
Thallium	mg/L	--	3	30	NA	NA	NA	NA	ND(0.0100)
Tin	mg/L	--	--	--	NA	NA	NA	NA	ND(0.0500)
Dioxins/Furans									
1,2,3,4,6,7,8-Heptachlorodibenzofuran	mg/L	--	--	--	NA	NA	0.00000001 JNX	NA	ND(0.0000000236)
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	mg/L	--	--	--	NA	NA	0.0000000193 J	NA	ND(0.0000000236)
1,2,3,4,7,8,9-Heptachlorodibenzofuran	mg/L	--	--	--	NA	NA	0.00000000166 JNX	NA	ND(0.0000000236)
1,2,3,4,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	NA	NA	0.00000000444 J	NA	ND(0.0000000236)
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
1,2,3,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	NA	NA	0.00000000219 JNX	NA	ND(0.0000000236)
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
1,2,3,7,8,9-Hexachlorodibenzofuran	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
1,2,3,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
2,3,4,6,7,8-Hexachlorodibenzofuran	mg/L	--	--	--	NA	NA	0.00000000244 JNX	NA	ND(0.0000000236)
2,3,4,7,8-Pentachlorodibenzofuran	mg/L	--	--	--	NA	NA	ND(0.0000000238)	NA	ND(0.0000000236)
2,3,7,8-Tetrachlorodibenzofuran	mg/L	--	--	--	NA	NA	ND(0.00000000476)	NA	ND(0.0000000472)

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well type: Date Collected: Location ID:	Units	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	GW-2 Benchmark/ GW-3 Compliance 11/05/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 11/08/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 11/09/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 12/01/22 OPCA-MW-7	GW-2 Benchmark/ GW-3 Compliance 11/02/22 OPCA-MW-8R
Dioxins/Furans (cont.)									
2,3,7,8-Tetrachlorodibenzo-p-dioxin	mg/L	--	--	--	NA	NA	ND(0.00000000476)	NA	ND(0.00000000472)
Heptachlorodibenzofurans	mg/L	--	--	--	NA	NA	ND(0.00000000687)	NA	ND(0.00000000105)
Heptachlorodibenzo-p-dioxins	mg/L	--	--	--	NA	NA	0.0000000377	NA	ND(0.00000000148)
Hexachlorodibenzofurans	mg/L	--	--	--	NA	NA	0.0000000288	NA	ND(0.00000000109)
Hexachlorodibenzo-p-dioxins	mg/L	--	--	--	NA	NA	ND(0.00000000152)	NA	ND(0.00000000156)
Octachlorodibenzofuran	mg/L	--	--	--	NA	NA	0.000000143 J	NA	ND(0.0000000472)
Octachlorodibenzo-p-dioxin	mg/L	--	--	--	NA	NA	0.000000109	NA	ND(0.0000000472)
Pentachlorodibenzofurans, Total	mg/L	--	--	--	NA	NA	ND(0.00000000115)	NA	ND(0.00000000107)
Pentachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	NA	NA	ND(0.00000000188)	NA	ND(0.00000000178)
Tetrachlorodibenzofuran	mg/L	--	--	--	NA	NA	ND(0.000000000891)	NA	ND(0.00000000131)
Tetrachlorodibenzo-p-dioxins, Total	mg/L	--	--	--	NA	NA	ND(0.00000000159)	NA	ND(0.00000000251)
WHO TEQ	mg/L	--	0.00004	0.0004	NA	NA	0.0000000529	NA	0.000000059
GenChem									
Cyanide-MADEP (PAC)	mg/L	2	--	0.03	NA	NA	NA	NA	ND(0.005)
Sulfide	mg/L	--	--	--	NA	NA	NA	NA	NA

Table 6b
Summary of WG Analytical Results
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for laboratory analysis in Fall 2022.
2. Samples have been validated as per GE's Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP) (revised on July 2, 2013 and approved by EPA on July 23, 2013) and FSP/QAPP Addendum (submitted August 23, 2017, and approved by EPA on August 28, 2017).
3. With the exception of dioxin/furans, sulfide and cyanide-MADEP (PAC) only those constituents detected in one or more samples are summarized.
4. Field duplicate sample results are presented in brackets.
5. ND - Analyte was not detected. The number in parentheses is the associated reporting limit.
6. NL - Not Listed.
7. NA - Not Analyzed
8. Bold values indicate a benchmark exceedance.
9. Total VOCs at GW-2 wells are being compared to the notification level in the SOW of 5 ppm, as there is no GW-2 standard for Total VOCs.
10. The listed Method 2 GW-3 standards for filtered cobalt and copper were approved for use at all GMAs by EPA in a letter to GE dated July 30, 2008.

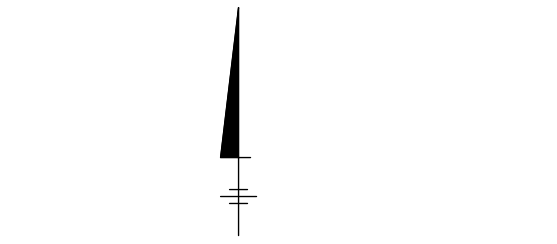
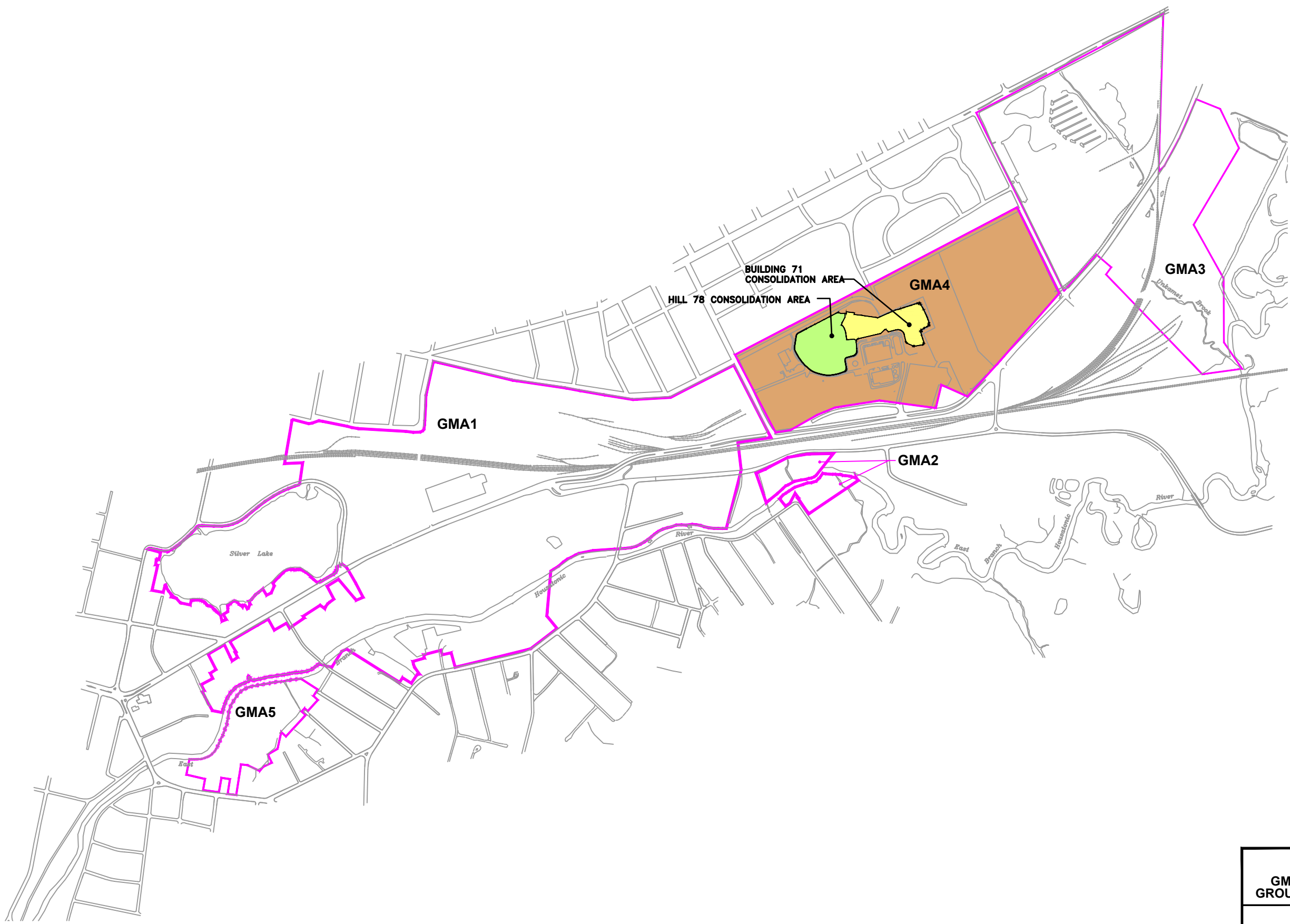
Data Qualifiers:

- J - Indicates that the associated numerical value is an estimated concentration.
JNX - The ion abundance ratio is outside criteria; estimated maximum possible concentration has been reported.

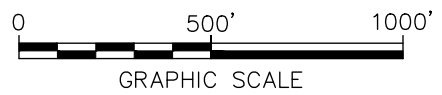
FIGURES



CITY: SYRACUSE NY DIV/GROUP: ERC-IMDV DE: K.SARTORI PIC: P.FARR PM: C.AVERIL TM: C.KASSEL LXR: C.MONN+ OFF=REF
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 PLOTTED: 1/12/2022 10:08 PM BY: BYRAPPA, BYRAREDDY
 XREFS: IMAGES: ALL1013XLB 20187X10



- GMA1 GMA1-PLANT SITE 1
- GMA3 GMA 3-PLANT SITE 2
- GMA4 GMA 4-PLANT SITE 3
- GMA5 GMA 5-FORMER OXBOWS A&C
- NON-TSCA/NON-RCRA AREA
- TSCA/RCRA AREA



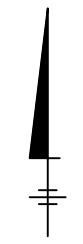
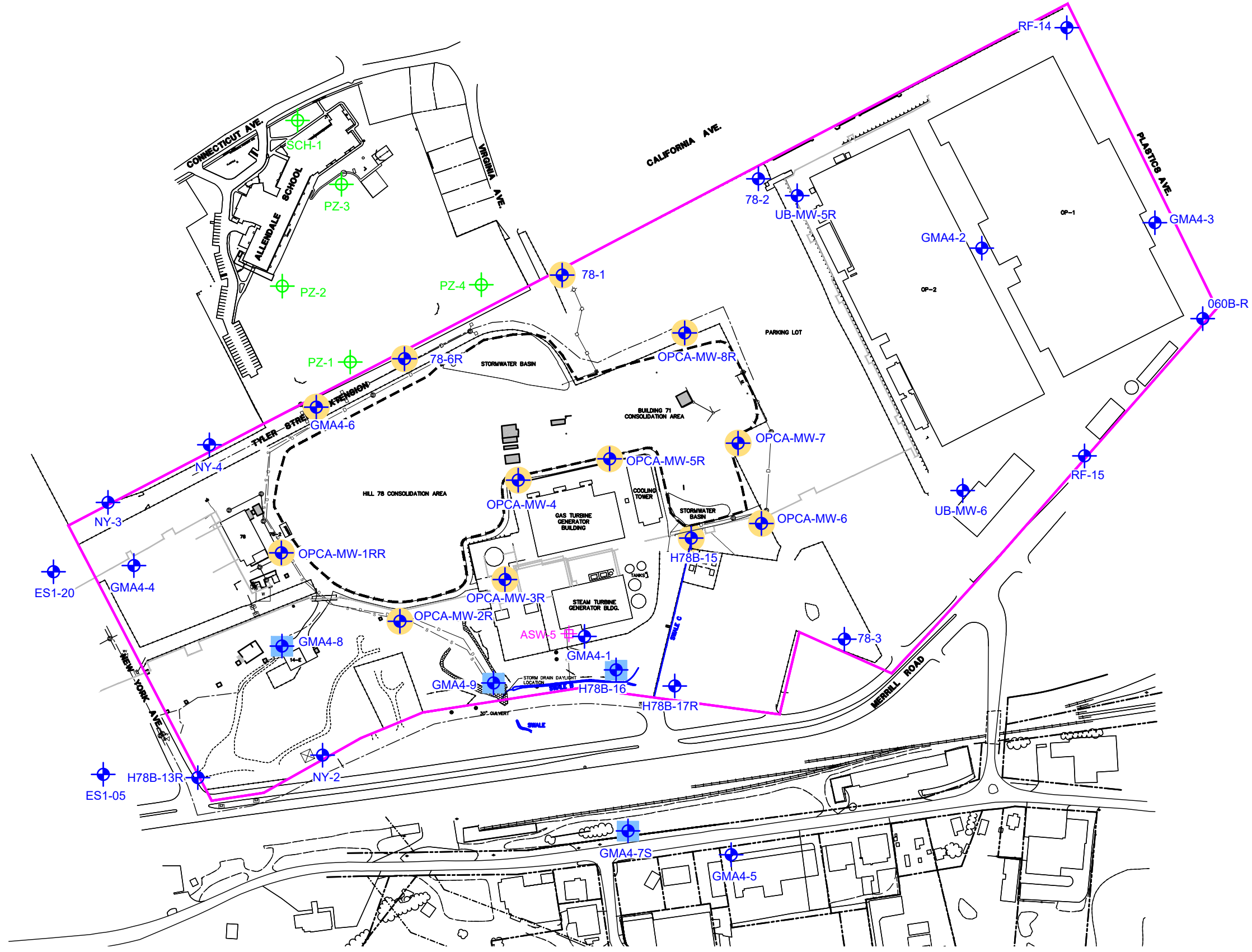
GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
**GMA 4 LONG-TERM AND OPCA POST-CLOSURE
 GROUNDWATER QUALITY MONITORING PROGRAMS**

SITE PLAN



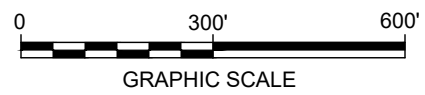
FIGURE
1

CITY: SYRACUSE, NY DIV: GROUP: EBC-IMDV DB: KSARTORI, PIC: P. FARR, PM: C. AVERIL, TM: C. KASSEL, LTR: OJONN, OFF: REF
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 XREFS: IMAGES: 3/20/2007, 3/20/2002, 3/20/2040, ALL/1013XLB



- LEGEND**
- APPROXIMATE GROUNDWATER MANAGEMENT AREA 4 BOUNDARY
 - ⊕ MONITORING WELL
 - ⊕ EXISTING MONITORING WELL/PIEZOMETER MONITORED BY EPA
 - ⊕ INDUSTRIAL WELL SUPPLY
 - WELL SAMPLED AS PART OF THE OPCA PROGRAM
 - WELL SAMPLED AS PART OF THE GMA 4 PROGRAM

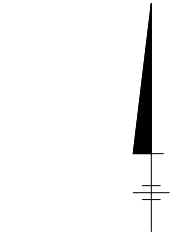
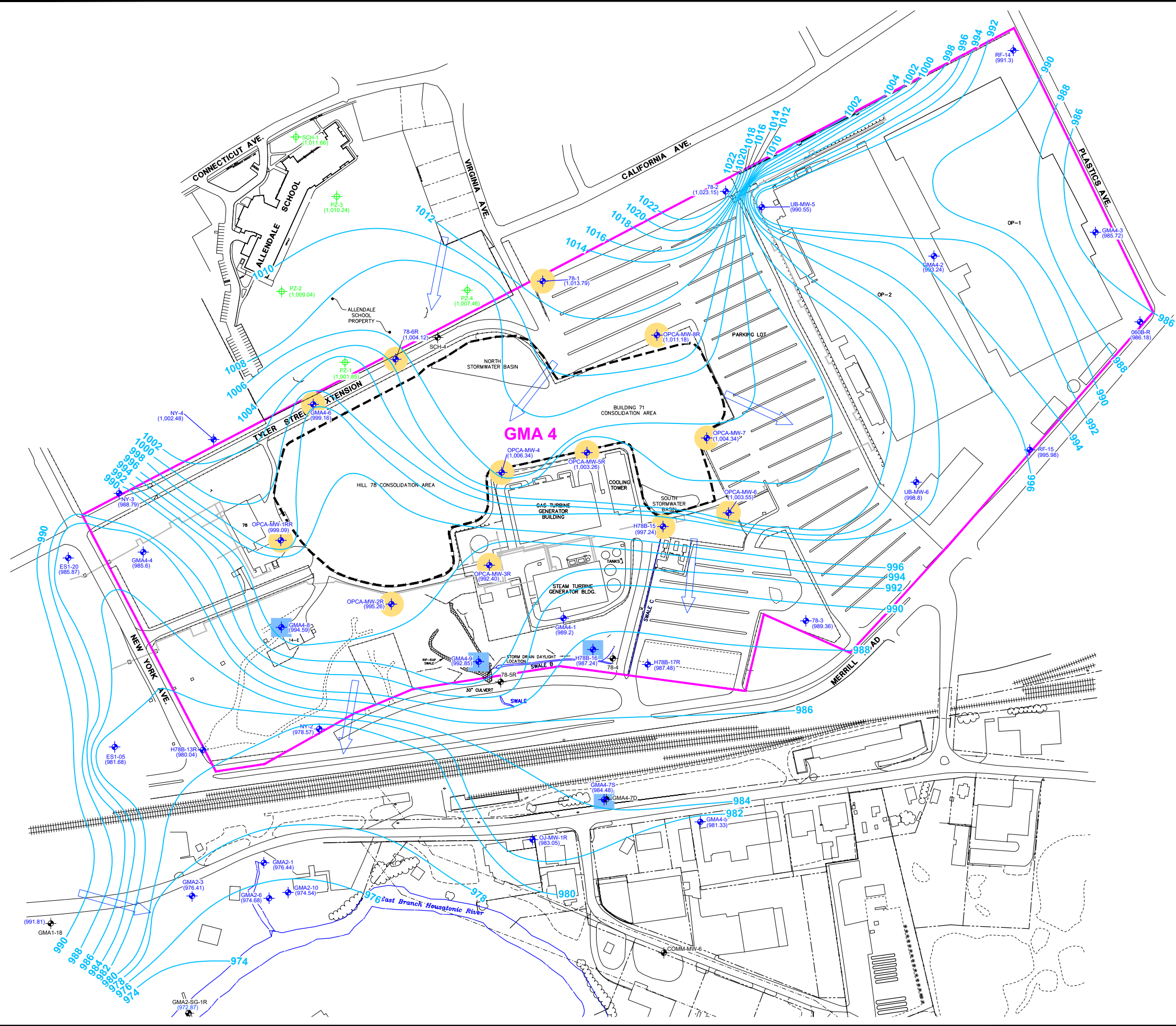
- NOTES**
1. MAPPING IS BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR THE RCRA FACILITY INVESTIGATION O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.
 2. NOT ALL PHYSICAL FEATURES SHOWN.
 3. SITE BOUNDARY IS APPROXIMATE.
 4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.



GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
**GMA 4 LONG-TERM AND OPCA POST-CLOSURE
 GROUNDWATER QUALITY MONITORING PROGRAMS**

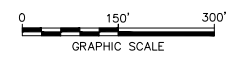
**MONITORING WELL LOCATIONS
 SPRING 2022**

FIGURE
2



- LEGEND:**
- APPROXIMATE GROUNDWATER MANAGEMENT AREA 4 BOUNDARY
 - BOUNDARY OF BUILDING 71 AND HILL 78 ON-PLANT CONSOLIDATION AREAS REMOVAL ACTION AREA
 - FENCE LINE
 - GMA4-3 (987.79) GROUNDWATER ELEVATION MONITORING WELL
 - 78-4 EXISTING MONITORING WELL
 - PZ-1 EXISTING WELL/PIEZOMETER MONITORED BY EPA
 - GMA2-SG-1 BRIDGE REFERENCE POINT
 - WELL SAMPLED IN SPRING 2022 AS PART OF THE OPCA PROGRAM
 - WELL SAMPLED IN SPRING 2022 AS PART OF THE GMA 4 PROGRAM
 - WATER TABLE ELEVATION CONTOUR
 - GROUNDWATER FLOW

- NOTES:**
1. MAPPING BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR RCRA FACILITY INVESTIGATION (O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.
 2. ALL LOCATIONS ARE APPROXIMATE.
 3. GROUNDWATER ELEVATION IN FEET COLLECTED OCTOBER 20, 2022.
 4. GMA 2 WELL DATA FROM GE'S JANUARY 23, 2023, POST-CERTIFICATION GROUNDWATER MONITORING REPORT FOR GROUNDWATER MANAGEMENT AREA 2 FOR 2022.



**GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
 GMA 4 LONG-TERM AND OPCA POST-CLOSURE
 GROUNDWATER QUALITY MONITORING PROGRAMS**

**GROUNDWATER CONTOUR MAP -
 FALL 2022**



APPENDIX A

Well Maintenance and Groundwater Sampling Logs



Table A-1
Monitoring Well Inventory Summary - Fall 2022
Long-Term Monitoring Program - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well Name	Fall Date of Inventory	As-Built Elevation at Base of Well ²	Spring 2022 Measured Elevation at Base of Well	Fall 2022 Measured Elevation at Base of Well	Fall 2022 Difference from As-Built Base of Well Elevation (feet)	Date(s) of Completed Maintenance	Fall 2022 Maintenance
GMA 4 Monitoring Wells							
60B-R	10/20/2022	981.04	980.58	980.63	-0.41		
GMA4-2	10/20/2022	986.63	986.87	986.88	0.25	11/21/2022 Pending	Replaced curb box. Resurvey.
GMA4-3	10/20/2022	978.05	978.06	978.06	0.01	Pending	Retap bolt threads.
H78B-16	10/20/2022	982.00	982.21	982.22	0.22		
NY-3	10/20/2022	980.67	980.75	980.76	0.09		
RF-14	10/20/2022	979.21	979.08	979.07	-0.14		
RF-15R	10/20/2022	988.07	NM	988.09	0.02	7/25/2022 9/21/2022	Surveyed well. Developed well.
UB-MW-5R	10/20/2022	981.38	981.49	981.50	0.12		
OPCA Sampling Wells							
78-1	10/20/2022	1004.40	1004.12	1004.18	-0.22		
78-6R	10/20/2022	993.96	993.82	993.75	-0.21		
GMA4-6	10/20/2022	996.62	996.68	996.67	0.05		
H78B-15	10/20/2022	993.80	994.31	994.30	0.50		
OPCA-MW-1RR	10/20/2022	988.33	988.29	988.35	0.02		
OPCA-MW-2R	10/20/2022	991.50	993.60	991.67	0.17		
OPCA-MW-3R	10/20/2022	971.01	970.66	970.64	-0.36		
OPCA-MW-4	10/20/2022	997.20	997.13	997.16	-0.04	11/21/2022	Retapped bolt threads.
OPCA-MW-5R	10/20/2022	994.74	998.07	994.76	0.02		
OPCA-MW-6	10/20/2022	997.70	997.97	998.00	0.30		
OPCA-MW-7	10/20/2022	1002.90	1002.93	1003.01	0.11		
OPCA-MW-8R	10/20/2022	1003.20	1003.81	1003.90	0.70	Pending	Redevelop.
Wells Downgradient of GMA 4							
GMA4-7S	10/20/2022	974.60	975.18	975.20	0.60		
Additional Wells Monitored Under Post-Closure Program for the OPCAs							
78-2	10/20/2022	1013.90	1013.82	1013.82	-0.08		
78-3	10/20/2022	982.36	982.32	982.32	-0.04		
GMA4-1	10/20/2022	984.05	984.01	984.00	-0.05		
GMA4-4	10/20/2022	976.60	976.57	976.56	-0.04		
GMA4-8	10/20/2022	988.60	991.06	988.77	0.17		
GMA4-9	10/20/2022	984.50	984.31	984.28	-0.22		

Table A-1
Monitoring Well Inventory Summary - Fall 2022
Long-Term Monitoring Program - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

Well Name	Fall Date of Inventory	As-Built Elevation at Base of Well ²	Spring 2022 Measured Elevation at Base of Well	Fall 2022 Measured Elevation at Base of Well	Fall 2022 Difference from As-Built Base of Well Elevation (feet)	Date(s) of Completed Maintenance	Fall 2022 Maintenance
Additional Wells Monitored Under Post-Closure Program for the OPCAs (cont.)							
H78B-13R	10/20/2022	973.23	973.04	973.01	-0.22	11/21/2022	Retapped bolt threads.
H78B-17R	10/20/2022	975.60	975.57	975.65	0.05		
NY-2	10/20/2022	969.20	970.00	969.99	0.79		
NY-4	10/20/2022	992.54	993.23	993.22	0.68		
UB-MW-6	10/20/2022	984.55	985.35	985.74	1.19	Pending	Replace curb box. Resurvey. Although there is greater than one foot of sediment, sedimentation is less than half the length of the screened interval and does not impact the groundwater elevation and LNAPL monitoring of this well.
East Street Area 2 North- Adjacent Area for GMA 4							
ES1-05	10/20/2022	978.39	979.08	979.05	0.66		
ES1-20	10/19/2022	981.82	982.60	982.62	0.80		
Commercial Street Site							
GMA4-5	10/20/2022	975.56	975.33	975.33	-0.23		

Notes:

1. This table only includes those monitoring wells that were inspected, monitored, or maintained during the Fall 2022 monitoring event as well as any remaining pending maintenance from prior seasons.
2. "As-Built Elevation at Base of Well" represents the calculated base of well at construction including any sump, if present.

GROUNDWATER SAMPLING LOG

Well No. 78-1
 Lock Present? YES NO
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name OPCA
 Sampling Personnel GAR
 Date 11/03/2022
 Weather Sunny, 63°

WELL INFORMATION

Reference Point Marked? YES NO
 Height of Reference Point -0.21' Meas. From Grade
 Well Diameter 4"
 Screen Interval Depth 6.92' - 21.92' Meas. From TIC
 Water Table Depth 12.81' Meas. From TIC
 Well Depth 22.12' Meas. From TIC
 Length of Water Column 9.31'
 Volume of Water in Well 6.05 gallons
 Intake Depth of Pump/Tubing 17.37' Meas. From TIC

Sample Time 15:45
 Sample ID 78-1
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Required	Analytical Parameters:	Collected
<input checked="" type="checkbox"/>	VOCs (Standard List)	(3)
<input type="checkbox"/>	VOCs (Expanded List)	()
<input checked="" type="checkbox"/>	SVOCs	(2)
<input type="checkbox"/>	PCBs (Unfiltered)	()
<input checked="" type="checkbox"/>	PCBs (Filtered)	(2)
<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(1)
<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
<input type="checkbox"/>	Total Cyanide (Filtered)	()
<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
<input type="checkbox"/>	Pesticides/Herbicides	()
<input type="checkbox"/>	Natural Attenuation	()
<input type="checkbox"/>	Other (Specify)	()

Reference Point Identification:

TIC: Top of Inner (PVC) Casing ' : Feet
 TOC: Top of Outer (Protective) Casing " : Inches
 Grade/BGS: Ground Surface
 Redevelop? YES NO
 Additional well maintenance needed? YES NO (if yes, describe below)

EVACUATION INFORMATION

Pump Start Time 13:10 Specify other Parameter: _____
 Pump Stop Time 16:35 Evacuation Method : Bailer () Bladder Pump ()
 Minutes of Pumping 205 Peristaltic Pump Submersible Pump () Other/Specify ()
 Volume of Water Removed 5.75 gallons Pump Type: _____
 Did Well Go Dry? YES NO Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #4133 Turbidity Meter Type / Serial Number Geotech #7801

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:15	100	0.13	12.85				9.07		
13:20	100	0.26	13	16	6.75	0.93	3.37	1.5	180.7
13:25	100	0.4	13.07	16	6.74	0.93	3.54	0.96	153.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7655. Keck #1369. Initial purge water clear, odorless. Final purge water clear, odorless.

SAMPLE DESTINATION

Laboratory: SGS, Alpha
 Delivered Via: FedEx

Airbill #: TBDField Sampling Coordinator: P. Rabasco**GROUNDWATER SAMPLING LOG**Well No. 78-1Site/GMA Name OPCALock Present? YES NOSampling Personnel GARPID Background (ppm) 0Date 11/03/2022Well Headspace (ppm) 0Weather Sunny, 63°**WELL INFORMATION - See Page 1**

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:30	100	0.53	13.13	16	6.78	0.93	2.66	0.92	132.3
13:35	100	0.66	13.21	15.9	6.85	0.93	1.87	0.88	117.8
13:40	100	0.79	13.29	15.9	6.84	0.93	1.59	0.9	110.2
13:45	100	0.92	13.36	15.7	6.86	0.93	1.6	0.87	103.6
13:50	100	1.06	13.42	15.8	6.86	0.93	1.33	0.89	100.9
13:55	100	1.19	13.49	15.8	6.86	0.92	1.69	0.89	98.7
14:00	100	1.32	13.55	15.7	6.86	0.92	0.97	0.87	97.2
14:05	100	1.45	13.6	15.8	6.86	0.92	1.02	0.91	95.2
14:10	100	1.59	13.65	15.9	6.87	0.92	1.37	0.91	93.5
14:15	100	1.72	13.71	15.8	6.87	0.92	1.29	0.86	91.3
14:20	100	1.85	13.77	15.7	6.88	0.92	1.09	0.91	89.5
14:25	350	2.31	13.98	15.6	6.88	0.91	0.92	0.99	86.1
14:30	100	2.44	14.05	15.8	6.9	0.91	0.72	0.92	83.1
14:35	100	2.57	14.11	15.8	6.92	0.91	0.74	0.88	78.9
14:40	100	2.7	14.18	15.7	6.93	0.91	0.66	0.8	73.6
14:45	350	3.16	14.5	15.8	6.93	0.9	0.29	1	70.4
14:50	100	3.29	14.51	15.9	6.97	0.91	0.3	0.82	64.2
14:55	100	3.42	14.53	15.9	6.97	0.91	0.56	0.77	60.4
15:00	100	3.55	14.55	15.9	6.97	0.91	0.28	0.71	56.1
15:05	100	3.68	14.56	16.1	6.98	0.92	0.23	0.68	51.7
15:10	100	3.81	14.57	16.1	6.98	0.92	0.35	0.68	50.3
15:15	100	3.94	14.57	16.1	6.98	0.92	0.28	0.66	48.5
15:20	100	4.07	14.58	16	6.98	0.92	0.13	0.65	46
15:25	100	4.2	14.59	16	6.99	0.92	0.34	0.64	44.3
15:30	100	4.13	14.6	16	6.99	0.92	0.3	0.63	43.5
15:35	100	4.26	14.6	15.9	6.99	0.92	0.26	0.62	42.4
15:40	100	4.39	14.6	16	6.99	0.92	0.3	0.62	40.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. <u>78-6R</u>	Site/GMA Name <u>OPCA</u>
Lock Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sampling Personnel <u>J. Duquette</u>
PID Background (ppm) <u>0</u>	Date <u>11/01/2022</u>
Well Headspace (ppm) <u>0</u>	Weather <u>Rain 55°</u>

WELL INFORMATION

Reference Point Marked? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sample Time <u>12:30</u>	
Height of Reference Point <u>-0.38'</u> Meas. From <u>Grade</u>	Sample ID <u>78-6R</u>	
Well Diameter <u>4"</u>	Duplicate ID _____	
Screen Interval Depth <u>2.89' - 17.48'</u> Meas. From <u>TIC</u>	MS/MSD _____	
Water Table Depth <u>8.39'</u> Meas. From <u>TIC</u>	Split Sample ID _____	
Well Depth <u>17.93'</u> Meas. From <u>TIC</u>		
Length of Water Column <u>9.54'</u>		
Volume of Water in Well <u>6.2 gallons</u>		
Intake Depth of Pump/Tubing <u>12.94'</u> Meas. From <u>TIC</u>		

Reference Point Identification:

TIC: Top of Inner (PVC) Casing ' : Feet	()	Metals/Inorganics (Unfiltered)	()
TOC: Top of Outer (Protective) Casing " : Inches	(✓)	Metals/Inorganics (Filtered)	(1)
Grade/BGS: Ground Surface	()	Total Cyanide (Unfiltered)	()
	()	Total Cyanide (Filtered)	()
Redevelop? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	(✓)	PAC Cyanide (Filtered)	(1)
	(✓)	PCDDs/PCDFs	(1)
Additional well maintenance needed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if yes, describe below)	()	Pesticides/Herbicides	()
	()	Natural Attenuation	()
	()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time <u>11:32</u>	Specify other Parameter: _____
Pump Stop Time <u>13:25</u>	Evacuation Method : <input type="checkbox"/> Bailer () <input type="checkbox"/> Bladder Pump ()
Minutes of Pumping <u>113</u>	Peristaltic Pump (✓) <input type="checkbox"/> Submersible Pump () <input type="checkbox"/> Other/Specify ()
Volume of Water Removed <u>3.73 gallons</u>	Pump Type: _____
Did Well Go Dry? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Samples collected by same method as evacuation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7613 Turbidity Meter Type / Serial Number Geotech #6568

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
11:35	125	0.099	8.51	14.3	6.91	2.407	36.4	1.53	240.8
11:40	125	0.264	8.56	14	7	2.424	16.8	0.59	213.6
11:45	125	0.429	8.58	14	7.02	2.421	11.7	0.54	130

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7405. Geotech # 6361. Initial purge water clear, no odor, no sheen. Final purge water clear, no odor, no sheen.

SAMPLE DESTINATION

Laboratory: SGS Orlando; Alpha Labs; Eurofins Lancaster
 Delivered Via: FedEx

Airbill #: 930443723170 Field Sampling Coordinator: P.Rabasco

GROUNDWATER SAMPLING LOG

Well No. 78-6R

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel J. Duquette

PID Background (ppm) 0

Date 11/01/2022

Well Headspace (ppm) 0

Weather Rain 55°

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
11:50	125	0.594	8.58	14	7.02	2.409	6.89	0.47	39.4
11:55	125	0.759	8.58	14.1	7.02	2.406	3.14	0.47	22.7
12:00	125	0.924	8.58	14	7.02	2.393	1.77	0.44	1.9
12:05	125	1.089	8.58	14.1	7.02	2.385	1.56	0.44	-2.4
12:10	135	1.254	8.58	14.1	7.01	2.368	1.51	0.42	-14.2
12:15	125	1.419	8.58	14.1	7.02	2.333	1.46	0.41	-25.2
12:20	125	1.584	8.58	14.1	7.02	2.318	1.38	0.4	-30.7
12:25	125	1.75	8.58	14.1	7.02	2.3	1.37	0.4	-31.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. GMA4-6 Site/GMA Name OPCA
 Lock Present? YES NO Sampling Personnel J.Duquette
 PID Background (ppm) 0 Date 11/01/2022
 Well Headspace (ppm) 0 Weather Overcast, 60°

WELL INFORMATION

Reference Point Marked? YES NO Sample Time 10:50
 Height of Reference Point -0.35' Meas. From Grade Sample ID GMA4-6
 Well Diameter 2" Duplicate ID _____
 Screen Interval Depth 2.7' - 12.7' Meas. From TIC MS/MSD _____
 Water Table Depth 10.34' Meas. From TIC Split Sample ID _____
 Well Depth 12.63' Meas. From TIC
 Length of Water Column 2.29' Required Analytical Parameters: Collected
 Volume of Water in Well 0.37 gallons VOCs (Standard List) ()
 Intake Depth of Pump/Tubing 10.63' Meas. From TIC VOCs (Expanded List) ()
 SVOCs (2)
 PCBs (Unfiltered) ()
 PCBs (Filtered) (2)
 Metals/Inorganics (Unfiltered) ()
 Metals/Inorganics (Filtered) (1)
 Total Cyanide (Unfiltered) ()
 Total Cyanide (Filtered) ()
 PAC Cyanide (Filtered) (1)
 PCDDs/PCDFs (1)
 Pesticides/Herbicides ()
 Natural Attenuation ()
 Other (Specify) (3)

Reference Point Identification:

TIC: Top of Inner (PVC) Casing ' : Feet ()
 TOC: Top of Outer (Protective) Casing " : Inches
 Grade/BGS: Ground Surface ()
 Redevelop? YES NO

Additional well maintenance needed? YES NO (if yes, describe below)

EVACUATION INFORMATION

Pump Start Time 14:22 Specify other Parameter: VOC sampled by PDB
 Pump Stop Time 14:34 Evacuation Method : Bailer () Bladder Pump ()
 Minutes of Pumping 12 Peristaltic Pump Submersible Pump () Other/Specify ()
 Volume of Water Removed 0.66 gallons Pump Type: _____
 Did Well Go Dry? YES NO Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7613 Turbidity Meter Type / Serial Number Geotech #5963

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
14:25	100	0.079	10.69	15.2	6.53	0.18	276	4.45	131.2
14:30	100	0.211	11.01	15.1	6.45	0.158	260	3.36	110
10:30	100	0.2374	10.29	14.9	7.27	0.851	17.6	1.31	-65.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7405. Geotech #6361. Per Arcadis sampling protocol. Well purged dry after reaching two feet from bottom. Pump turned up to 350 ml/min for 5 minutes. Well was sampled next day 11/2/22 from 10:28 to 11:33, 65 minutes of pumping on 11/2/22. Gallons removed on 11/1/22 was 0.66 and on 11/2/22 was 1.72. Total gallons removed = 2.378. VOC will be sampled by PDB.

SAMPLE DESTINATION

Laboratory: SGS Orlando; Alpha Labs
 Delivered Via: FedEx

Airbill #: TBD

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. H78B-15
 Lock Present? YES NO
 PID Background (ppm) 0
 Well Headspace (ppm) 0.1

Site/GMA Name OPCA
 Sampling Personnel PTR
 Date 11/02/2022
 Weather Sunny, 56°

WELL INFORMATION

Reference Point Marked? YES NO
 Height of Reference Point 2.38' Meas. From Grade
 Well Diameter 0.75"
 Screen Interval Depth 8.88' - 18.88' Meas. From TIC
 Water Table Depth 15.22' Meas. From TIC
 Well Depth 18.36' Meas. From TIC
 Length of Water Column 3.14'
 Volume of Water in Well 0.07 gallons
 Intake Depth of Pump/Tubing 16.36' Meas. From TIC

Sample Time 11:30
 Sample ID H78B-15
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Required	Analytical Parameters:	Collected
<input checked="" type="checkbox"/>	VOCs (Standard List)	(3)
<input type="checkbox"/>	VOCs (Expanded List)	()
<input checked="" type="checkbox"/>	SVOCs	(2)
<input type="checkbox"/>	PCBs (Unfiltered)	()
<input checked="" type="checkbox"/>	PCBs (Filtered)	(2)
<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(1)
<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
<input type="checkbox"/>	Total Cyanide (Filtered)	()
<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
<input type="checkbox"/>	Pesticides/Herbicides	()
<input type="checkbox"/>	Natural Attenuation	()
<input checked="" type="checkbox"/>	Other (Specify)	(1)

Reference Point Identification:

TIC: Top of Inner (PVC) Casing ': Feet
 TOC: Top of Outer (Protective) Casing ": Inches
 Grade/BGS: Ground Surface

Redevelop? YES NO

Additional well maintenance needed? YES NO (if yes, describe below)

EVACUATION INFORMATION

Pump Start Time 10:45
 Pump Stop Time 12:25
 Minutes of Pumping 100
 Volume of Water Removed 2.64 gallons
 Did Well Go Dry? YES NO

Specify other Parameter: Sulfide
 Evacuation Method : Bailer () Bladder Pump ()
 Peristaltic Pump Submersible Pump () Other/Specify ()
 Pump Type: _____
 Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7659

Turbidity Meter Type / Serial Number Geotech #6637

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
10:50	100	0.132	15.35	14.2	6.86	0.747	57	5.1	101
10:55	100	0.264	15.35	14.1	6.68	0.649	29.4	5.23	103.9
11:00	100	0.396	15.36	14.1	6.68	0.615	1.68	5	109.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7655. Heron Skinny Dipper #13704. Initial purge water clear, no odor, no sheen. Final purge water clear, no odor, no sheen.

SAMPLE DESTINATION

Laboratory: SGS Orlando, Eurofins Lancaster, Alpha Labs
 Delivered Via: FedEx

Airbill #: TBDField Sampling Coordinator: P. Rabasco**GROUNDWATER SAMPLING LOG**Well No. H78B-15Site/GMA Name OPCALock Present? YES NOSampling Personnel PTRPID Background (ppm) 0Date 11/02/2022Well Headspace (ppm) 0.1Weather Sunny, 56°**WELL INFORMATION - See Page 1**

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
11:05	100	0.528	15.36	14.1	6.68	0.61	0.82	5.03	113.2
11:10	100	0.66	15.36	14.2	6.69	0.608	0.51	5.11	117.5
11:15	100	0.792	15.36	14.3	6.69	0.609	0.75	5.08	120.6
11:20	100	0.924	15.36	14.4	6.69	0.609	0.85	5.11	122.3
11:25	100	1.056	15.36	14.5	6.69	0.611	0.69	5.13	123.9

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-1RR Site/GMA Name OPCA
 Lock Present? YES NO Sampling Personnel P. Rabasco
 PID Background (ppm) 0 Date 10/31/2022
 Well Headspace (ppm) 6 Weather Sunny, 59°

WELL INFORMATION

Reference Point Marked? YES NO
 Height of Reference Point -0.21' Meas. From Grade
 Well Diameter 2"
 Screen Interval Depth 17.79' - 27.79' Meas. From TIC
 Water Table Depth 17.2' Meas. From TIC
 Well Depth 28.05' Meas. From TIC
 Length of Water Column 10.85'
 Volume of Water in Well 1.76 gallons
 Intake Depth of Pump/Tubing 22.79' Meas. From TIC

Sample Time 13:35
 Sample ID OPCA-MW-1RR
 Duplicate ID OPCA-DUP-1-20221031
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing _____' : Feet
 TOC: Top of Outer (Protective) Casing _____" : Inches
 Grade/BGS: Ground Surface

Redevelop? YES NO

Additional well maintenance needed? YES NO (if yes, describe below)

Required	Analytical Parameters:	Collected
<input checked="" type="checkbox"/>	VOCs (Standard List)	(6)
<input type="checkbox"/>	VOCs (Expanded List)	()
<input checked="" type="checkbox"/>	SVOCs	(4)
<input type="checkbox"/>	PCBs (Unfiltered)	()
<input checked="" type="checkbox"/>	PCBs (Filtered)	(4)
<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(2)
<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
<input type="checkbox"/>	Total Cyanide (Filtered)	()
<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(2)
<input checked="" type="checkbox"/>	PCDDs/PCDFs	(2)
<input type="checkbox"/>	Pesticides/Herbicides	()
<input type="checkbox"/>	Natural Attenuation	()
<input checked="" type="checkbox"/>	Other (Specify)	(2)

EVACUATION INFORMATION

Pump Start Time 12:25 Specify other Parameter: Sulfide
 Pump Stop Time 15:32 Evacuation Method : Bailer Bladder Pump
 Minutes of Pumping 187 Peristaltic Pump Submersible Pump Other/Specify
 Volume of Water Removed 4.94 gallons Pump Type: _____
 Did Well Go Dry? YES NO Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7659 Turbidity Meter Type / Serial Number Geotech #6637

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:30	100	0.13	17.5	16.1	6.97	0.958	33.1	0.55	211.1
12:35	100	0.26	17.64	16.1	7.35	0.971	28.4	0.4	167.4
12:40	100	0.4	17.78	16.5	7.47	0.983	17	0.5	150.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7405. Geotech #6208. Initial purge water clear, no odor. Final purge water clear, no odor.

SAMPLE DESTINATION

Laboratory: SGS, Alpha, Eurofins
 Delivered Via: FedEx

Airbill #: TBDField Sampling Coordinator: P. Rabasco**GROUNDWATER SAMPLING LOG**Well No. OPCA-MW-1RRSite/GMA Name OPCALock Present? YES NOSampling Personnel P. RabascoPID Background (ppm) 0Date 10/31/2022Well Headspace (ppm) 6Weather Sunny, 59°**WELL INFORMATION - See Page 1**

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:45	100	0.53	17.89	16.6	7.57	1.025	14.3	0.51	137
12:50	100	0.66	17.93	16.7	7.59	1.031	11.7	0.41	133.4
12:55	100	0.79	17.98	16.5	7.62	1.051	10.3	0.45	128.6
13:00	100	0.92	18.03	16.2	7.63	1.052	9.16	0.54	126.8
13:05	100	1.06	18.08	16.1	7.58	1.058	8.85	0.63	100.8
13:10	100	1.19	18.11	16.1	7.64	1.061	8.51	0.49	101.8
13:15	100	1.32	18.12	16.1	7.65	1.064	8.16	0.43	102.4
13:20	100	1.45	18.13	16.1	7.66	1.067	8.96	0.55	102.5
13:25	100	1.58	18.13	16.4	7.66	1.069	8.52	0.63	101.9
13:30	100	1.71	18.13	16.3	7.66	1.072	8.48	0.62	101.4
13:35	100	1.84	18.13	16.2	7.66	1.076	8.16	0.65	100.9

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-2R
 Lock Present? YES NO
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name OPCA
 Sampling Personnel J. Duquette
 Date 11/03/2022
 Weather Sunny, 70°

WELL INFORMATION

Reference Point Marked? YES NO
 Height of Reference Point 2.04' Meas. From Grade
 Well Diameter 2"
 Screen Interval Depth 12.04' - 27.04' Meas. From TIC
 Water Table Depth 23.87' Meas. From TIC
 Well Depth 27.15' Meas. From TIC
 Length of Water Column 3.28'
 Volume of Water in Well 0.53 gallons
 Intake Depth of Pump/Tubing 25.15' Meas. From TIC

Sample Time 11:00
 Sample ID OPCA-MW-2R
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Required	Analytical Parameters:	Collected
<input checked="" type="checkbox"/>	VOCs (Standard List)	()
<input type="checkbox"/>	VOCs (Expanded List)	()
<input checked="" type="checkbox"/>	SVOCs	(2)
<input type="checkbox"/>	PCBs (Unfiltered)	()
<input checked="" type="checkbox"/>	PCBs (Filtered)	(2)
<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(1)
<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
<input type="checkbox"/>	Total Cyanide (Filtered)	()
<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
<input type="checkbox"/>	Pesticides/Herbicides	()
<input type="checkbox"/>	Natural Attenuation	()
<input checked="" type="checkbox"/>	Other (Specify)	(3)

Reference Point Identification:

TIC: Top of Inner (PVC) Casing ' : Feet
 TOC: Top of Outer (Protective) Casing " : Inches
 Grade/BGS: Ground Surface
 Redevelop? YES NO
 Additional well maintenance needed? YES NO (if yes, describe below)

EVACUATION INFORMATION

Pump Start Time 13:30 Specify other Parameter: VOC by PDB
 Pump Stop Time 14:30 Evacuation Method : Bailer () Bladder Pump ()
 Minutes of Pumping 60 Peristaltic Pump Submersible Pump () Other/Specify ()
 Volume of Water Removed 5.12 gallons Pump Type: _____
 Did Well Go Dry? YES NO Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7613 Turbidity Meter Type / Serial Number Geotech #5963

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:32	100	0.05	24.07	16.4	6.6	0.78	6.22	2.62	113.8
13:37	100	0.185	24.26	16	6.65	0.775	2.91	2.21	139.9
13:42	100	0.317	24.43	15.9	6.72	0.78	2.48	2.57	150.2

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7405. Geotech #6361. Initial purge water clear, no odor. Well went dry returned next day 11/4/22 to sample all parameters. On 11/4/22 turned pump to 100 ml/min at 11:00 and turned pump off at 11:44 after all bottles were filled. The VOC's will be collected by PDBs. Final purge water clear, no odor.

SAMPLE DESTINATION

Laboratory: SGS, Alpha, Eurofins
 Delivered Via: FedEx

Airbill #: TBD Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-2R

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel J. Duquette

PID Background (ppm) 0

Date 11/03/2022

Well Headspace (ppm) 0

Weather Sunny, 70°

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:47	100	0.449	24.56	15.8	6.77	0.773	1.73	2.92	159
13:52	100	0.581	24.69	15.7	6.77	0.774	1.36	2.8	165.4
13:57	100	0.713	24.81	15.7	6.78	0.77	1.08	2.83	170.3
14:02	100	0.845	24.86	15.6	6.8	0.771	0.86	2.82	173.6
14:07	100	0.977	25.06	15.5	6.8	0.773	0.81	2.85	178.4
14:12	100	1.11	25.15	15.9	6.8	0.774	0.78	2.84	176.6
11:00	100	5.12	23.91	16.6	6.54	0.813	10.2	1.83	147.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. <u>OPCA-MW-3R</u>		Site/GMA Name <u>OPCA</u>							
Lock Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Sampling Personnel <u>J. Duquette</u>							
PID Background (ppm) <u>0</u>		Date <u>10/31/2022</u>							
Well Headspace (ppm) <u>0</u>		Weather <u>Overcast, 60°</u>							
WELL INFORMATION		Sample Time <u>13:15</u>							
Reference Point Marked? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Sample ID <u>OPCA-MW-3R</u>							
Height of Reference Point <u>-0.4'</u> Meas. From <u>Grade</u>		Duplicate ID <u>OPCA-MW-3R MS; OPCA-MW-3R MSD</u>							
Well Diameter <u>2"</u>		Split Sample ID _____							
Screen Interval Depth <u>13.95' - 43.95'</u> Meas. From <u>TIC</u>		Required							
Water Table Depth <u>22.53'</u> Meas. From <u>TIC</u>		Analytical Parameters:							
Well Depth <u>44.29'</u> Meas. From <u>TIC</u>		Collected							
Length of Water Column <u>21.76'</u>		<input checked="" type="checkbox"/> VOCs (Standard List) (9)							
Volume of Water in Well <u>3.54 gallons</u>		<input type="checkbox"/> VOCs (Expanded List) ()							
Intake Depth of Pump/Tubing <u>27.53'</u> Meas. From <u>TIC</u>		<input checked="" type="checkbox"/> SVOCs (6)							
		<input type="checkbox"/> PCBs (Unfiltered) ()							
		<input checked="" type="checkbox"/> PCBs (Filtered) (6)							
		<input type="checkbox"/> Metals/Inorganics (Unfiltered) ()							
		<input checked="" type="checkbox"/> Metals/Inorganics (Filtered) (3)							
		<input type="checkbox"/> Total Cyanide (Unfiltered) ()							
		<input type="checkbox"/> Total Cyanide (Filtered) ()							
Redevelop? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/> PAC Cyanide (Filtered) (3)							
		<input checked="" type="checkbox"/> PCDDs/PCDFs (3)							
Additional well maintenance needed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if yes, describe below)		<input type="checkbox"/> Pesticides/Herbicides ()							
		<input type="checkbox"/> Natural Attenuation ()							
		<input checked="" type="checkbox"/> Other (Specify) (3)							
EVACUATION INFORMATION		Specify other Parameter: <u>Sulfide</u>							
Pump Start Time <u>12:40</u>		Evacuation Method : Bailer () Bladder Pump ()							
Pump Stop Time <u>14:45</u>		Peristaltic Pump <input checked="" type="checkbox"/> Submersible Pump () Other/Specify ()							
Minutes of Pumping <u>125</u>		Pump Type: _____							
Volume of Water Removed <u>4.91 gallons</u>		Samples collected by same method as evacuation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (Specify)							
Did Well Go Dry? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO									
Water Quality Meter Type(s) / Serial Numbers: <u>YSI Professional Plus / Geotech #7613</u>		Turbidity Meter Type / Serial Number <u>Geotech #6568</u>							
Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:43	100	0.079	22.64	15.9	6.54	0.757	6.62	0.33	178.5
12:48	150	0.277	22.69	15.7	6.56	0.758	6.56	0.36	175.5
12:53	150	0.475	22.71	15.7	6.6	0.762	2.99	0.35	169.8
* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.									
OBSERVATIONS/SAMPLING METHOD DEVIATIONS: <u>Mini Rae 3000 Geotech #7405, Geotech #6361. Initial purge water clear, no odor. Final purge water clear, no odor.</u>									
SAMPLE DESTINATION									
Laboratory: <u>SGS Orlando; Alpha Labs; Eurofins Lancaster</u>									
Delivered Via: <u>FedEx</u>									

Airbill #: 930443723148; 930443723159; 930443723160 Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-3R

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel J. Duquette

PID Background (ppm) 0

Date 10/31/2022

Well Headspace (ppm) 0

Weather Overcast, 60°

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:58	150	0.673	22.71	15.4	6.61	0.767	1.87	0.37	120.4
13:03	150	0.871	22.71	15.3	6.61	0.772	1.63	0.34	142.1
13:08	150	1.07	22.71	15.3	6.62	0.774	1.58	0.35	148.7
13:13	150	1.27	22.71	15.3	6.62	0.777	1.53	0.35	148.9

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. <u>OPCA-MW-4</u>	Site/GMA Name <u>OPCA</u>
Lock Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sampling Personnel <u>P. Rabasco/J. Duquette</u>
PID Background (ppm) <u>0</u>	Date <u>11/03/2022</u>
Well Headspace (ppm) <u>0.1</u>	Weather <u>Sunny, 56°</u>

WELL INFORMATION

Reference Point Marked? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sample Time <u>17:10</u>
Height of Reference Point <u>-0.6'</u> Meas. From <u>Grade</u>	Sample ID <u>OPCA-MW-4</u>
Well Diameter <u>2"</u>	Duplicate ID _____
Screen Interval Depth <u>11.47' - 21.47'</u> Meas. From <u>TIC</u>	MS/MSD _____
Water Table Depth <u>12.34'</u> Meas. From <u>TIC</u>	Split Sample ID _____
Well Depth <u>21.49'</u> Meas. From <u>TIC</u>	
Length of Water Column <u>9.15'</u>	
Volume of Water in Well <u>1.49 gallons</u>	
Intake Depth of Pump/Tubing <u>16.91'</u> Meas. From <u>TIC</u>	

Reference Point Identification:

TIC: Top of Inner (PVC) Casing ' : Feet	<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
TOC: Top of Outer (Protective) Casing " : Inches	<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(2)
Grade/BGS: Ground Surface	<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
	<input type="checkbox"/>	Total Cyanide (Filtered)	()
Redevelop? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
	<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
Additional well maintenance needed? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (if yes, describe below)	<input type="checkbox"/>	Pesticides/Herbicides	()
	<input type="checkbox"/>	Natural Attenuation	()
	<input checked="" type="checkbox"/>	Other (Specify)	(1)

EVACUATION INFORMATION

Pump Start Time <u>13:35</u>	Specify other Parameter: <u>Sulfide</u>
Pump Stop Time <u>18:21</u>	Evacuation Method : Bailer () Bladder Pump ()
Minutes of Pumping <u>286</u>	Peristaltic Pump <input checked="" type="checkbox"/> Submersible Pump () Other/Specify ()
Volume of Water Removed <u>7.55 gallons</u>	Pump Type: _____
Did Well Go Dry? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Samples collected by same method as evacuation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7659 Turbidity Meter Type / Serial Number Geotech #6568

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:40	100	0.132	12.51	14.3	6.89	0.745	16.8	2.78	157
13:45	100	0.264	12.62	14.4	6.89	0.74	9.66	2.06	142.6
13:50	100	0.396	12.71	14.4	6.91	0.738	6.27	2.27	135.8

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7543, Geotech #6208, Initial purge water clear, no odor. Final purge water clear, no odor. Re-tap bolt threads

SAMPLE DESTINATION

Laboratory: SGS Orlando, Alpha, Eurofins
 Delivered Via: FedEx

Airbill #: TBD

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-4

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel P. Rabasco/J. Duquette

PID Background (ppm) 0

Date 11/03/2022

Well Headspace (ppm) 0.1

Weather Sunny, 56°

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:55	100	0.528	12.9	14.3	6.94	0.745	3.35	1.81	128.8
14:00	100	0.66	12.99	14.3	6.94	0.748	2.69	1.71	126.4
14:05	100	0.792	13.07	14.2	6.94	0.75	1.95	1.47	123.5
14:10	100	0.924	13.18	14.3	6.94	0.754	1.37	1.32	120.7
14:15	100	1.056	13.3	14.2	6.93	0.762	1.17	1	118.4
14:20	100	1.188	13.47	14.3	6.93	0.766	0.76	0.89	116.7
14:25	100	1.32	13.54	14.3	6.93	0.767	0.02	0.87	115.8
14:30	100	1.45	13.68	14.3	6.93	0.767	1.08	0.88	114.3
14:35	100	1.58	13.87	14.3	6.93	0.768	1.11	0.87	112.8
14:40	100	1.71	14.12	14.3	6.93	0.768	1.22	0.86	111.1
14:45	100	1.85	14.28	14.3	6.93	0.769	1.09	1	110
14:50	400	2.38	14.35	14.3	6.93	0.768	0.93	1.02	109.5
14:55	100	2.51	14.9	14.3	6.92	0.765	1.4	1.01	108.8
15:00	100	2.64	15	14.3	6.93	0.768	1.02	1.13	108.4
15:05	400	3.17	15.07	14.3	6.94	0.765	1.38	1.43	108.6
15:10	100	3.3	15.46	14.4	6.93	0.757	1.26	1.43	108.7
15:15	100	3.43	15.61	14.2	6.94	0.759	1.81	1.51	109
15:20	100	3.57	15.66	14.3	6.94	0.757	1.34	1.58	109
15:25	400	4.09	15.73	14.2	6.95	0.756	1.3	1.79	109.2
15:30	100	4.23	16.2	14.1	6.94	0.752	1.61	1.62	109.6
15:35	100	4.36	16.24	14.2	6.95	0.75	1.21	1.96	110.1
15:40	400	4.89	16.3	14.1	6.95	0.749	1.43	1.86	110.4
15:45	100	5.02	16.7	14.1	6.95	0.749	1.49	1.89	110.8
15:50	100	5.15	16.75	14.2	6.95	0.748	1.71	2.03	111.1
15:55	400	5.68	16.78	14.1	6.95	0.75	1.25	1.97	111.3
16:00	100	5.81	17.21	14	6.95	0.75	1.93	1.99	111.6
16:05	100	5.94	17.25	14.1	6.95	0.748	1.92	1.92	111.9
16:10	400	6.47	17.28	14.1	6.96	0.748	1.92	1.9	111.9
16:15	100	6.6	17.63	13.9	6.97	0.749	1.92	3.48	112.6
16:20	100	6.73	17.7	14.1	6.96	0.75	1.91	2.49	112.7
16:25	400	7.26	17.97	13.8	6.99	0.75	1.9	4.06	113.9
16:30	100	7.39	18.13	14.1	6.97	0.746	1.98	3.59	113.8
16:35	100	7.53	18.15	14.6	6.96	0.748	1.96	2.76	113.8
16:40	400	8.05	18.6	13.9	6.97	0.747	1.96	2.74	114
16:45	100	8.19	18.79	13.9	6.97	0.748	1.97	2.52	114.2
16:50	100	8.32	18.63	13.8	6.97	0.749	1.96	2.47	114.2
16:55	100	8.45	18.64	13.8	6.97	0.749	1.96	2.33	114.4

17:00	100	8.58	18.64	13.5	6.98	0.749	1.34	2.34	114.4
17:05	100	8.71	18.64	13.5	6.98	0.749	1.28	2.35	114.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. <u>OPCA-MW-5R</u>	Site/GMA Name <u>OPCA</u>
Lock Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sampling Personnel <u>A. Bruce</u>
PID Background (ppm) <u>0</u>	Date <u>11/03/2022</u>
Well Headspace (ppm) <u>0</u>	Weather <u>Sunny, 57°</u>

WELL INFORMATION

Reference Point Marked? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sample Time <u>12:05</u>
Height of Reference Point <u>-0.21'</u> Meas. From <u>Grade</u>	Sample ID <u>OPCA-MW-5R</u>
Well Diameter <u>2"</u>	Duplicate ID _____
Screen Interval Depth <u>11.62' - 21.62'</u> Meas. From <u>TIC</u>	MS/MSD _____
Water Table Depth <u>12.81'</u> Meas. From <u>TIC</u>	Split Sample ID _____
Well Depth <u>21.58'</u> Meas. From <u>TIC</u>	
Length of Water Column <u>8.77'</u>	
Volume of Water in Well <u>1.43 gallons</u>	
Intake Depth of Pump/Tubing <u>17.2'</u> Meas. From <u>TIC</u>	

Reference Point Identification:

TIC: Top of Inner (PVC) Casing _____ ' : Feet	<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
TOC: Top of Outer (Protective) Casing _____ " : Inches	<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(1)
Grade/BGS: Ground Surface	<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
	<input type="checkbox"/>	Total Cyanide (Filtered)	()
Redevelop? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
	<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
Additional well maintenance needed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if yes, describe below)	<input type="checkbox"/>	Pesticides/Herbicides	()
	<input type="checkbox"/>	Natural Attenuation	()
	<input checked="" type="checkbox"/>	Other (Specify)	(1)

EVACUATION INFORMATION

Pump Start Time <u>12:05</u>	Specify other Parameter: <u>Sulfide</u>
Pump Stop Time <u>15:30</u>	Evacuation Method : <input type="checkbox"/> Bailer () <input type="checkbox"/> Bladder Pump ()
Minutes of Pumping <u>205</u>	Peristaltic Pump <input checked="" type="checkbox"/> Submersible Pump () <input type="checkbox"/> Other/Specify ()
Volume of Water Removed <u>9.17 gallons</u>	Pump Type: _____
Did Well Go Dry? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Samples collected by same method as evacuation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7045 Turbidity Meter Type / Serial Number Geotech #6568

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:10	150	0.198	13.1	14.7	6.54	0.177	70.9	3.22	164.6
12:15	100	0.33	13.25	14.8	6.47	0.217	78.2	3.98	172.8
12:20	100	0.462	13.4	14.7	6.51	0.195	43.9	3.82	160.2

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7543, Keck #1369. Initial purge water clear, odorless. Tried to get stable water level by increasing pump flow rate after one hour for 5 min @ 350ml/min and then back to 100 ml/min five times but water level kept dropping. Final purge water clear, no odor. Well went dry. Samples collected next day on 11/04/22 at 12:05. Pumped 44 minutes at 100 ml/min to fill sample containers. VOCs collected by PDBs on 12/1/22.

SAMPLE DESTINATION

Laboratory: SGS, Eurofins, Alpha Labs
 Delivered Via: FedEx

Airbill #: TBD

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-5R

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel A. Bruce

PID Background (ppm) 0

Date 11/03/2022

Well Headspace (ppm) 0

Weather Sunny, 57°

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:25	100	0.594	13.54	14.8	6.55	0.195	27.6	4.1	161.6
12:30	100	0.726	13.59	14.8	6.63	0.188	23.1	4.32	159.4
12:35	100	0.858	13.75	14.8	6.64	0.206	17.7	2.7	159.1
12:40	100	0.99	13.86	14.8	6.76	0.237	11.4	4.5	158
12:45	100	1.122	13.95	14.8	6.81	0.255	9.68	4.15	156.4
12:50	100	1.254	14.1	14.9	6.86	0.28	8.68	0.98	155.6
12:55	100	1.386	14.25	14.8	6.91	0.302	6.39	1.14	154.9
13:00	100	1.518	14.37	14.9	6.92	0.324	5.66	4.68	155.6
13:05	100	1.65	14.52	14.9	6.94	0.341	4.82	3.22	154
13:10	400	2.18	15.02	14.9	6.93	0.405	7.01	2.11	154.7
13:15	100	2.31	15.12	14.9	6.95	0.432	6.25	1.62	152.8
13:20	100	2.44	15.24	15	6.94	0.432	4.19	1.31	151.2
13:25	100	2.57	15.42	14.8	6.94	0.431	3.05	1.18	149.9
13:30	350	3.04	15.85	14.9	6.91	0.402	6.22	1.3	147.3
13:35	100	3.168	16	14.9	6.87	0.377	6.91	0.69	145.5
13:40	100	3.3	16.13	14.9	6.85	0.373	2.57	0.56	144.6
13:45	100	3.43	16.26	14.9	6.84	0.375	1.4	0.63	144.5
13:50	350	3.89	16.76	14.7	6.83	0.338	9.76	0.94	142.2
13:55	100	4.026	16.87	14.9	6.82	0.322	4.18	0.85	141.6
14:00	100	4.158	17	14.8	6.83	0.346	2.42	0.61	143.3
14:05	100	4.29	17.13	14.8	6.82	0.375	2.16	0.6	144.8
14:10	100	4.42	17.28	14.7	6.82	0.396	4.66	0.3	144.8
14:15	350	4.88	17.55	14.7	6.84	0.481	54.7	3.91	149.2
14:20	100	5.02	17.75	14.5	6.85	0.527	18.9	0.73	149.5
14:25	100	5.15	17.9	14.5	6.82	0.546	6.79	0.04	148.8
14:30	100	5.28	18.01	14.5	6.85	0.549	4.33	0	147
14:35	100	5.41	18.13	14.6	6.85	0.563	5.61	0.03	146
14:40	350	5.87	18.64	14.2	6.81	0.602	13.5	0	145.3
14:45	100	6.01	18.72	14.6	6.89	0.615	10.8	2.53	143
14:50	100	6.14	18.85	14.3	6.85	0.615	6.54	0.78	143.1
14:55	100	6.27	19.01	14.3	6.84	0.624	3.94	0.46	143.1
15:00	100	6.4	19.15	14.3	6.85	0.628	3.96	0.46	142.6
15:05	350	6.86	19.58	14.1	6.82	63	10.1	0.37	143
12:05	100	10.33	17.17	16.6	7.04	0.673	19.1	3.73	92.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-6 Site/GMA Name OPCA
 Lock Present? YES NO Sampling Personnel PTR
 PID Background (ppm) 0 Date 11/01/2022
 Well Headspace (ppm) 0 Weather Cloudy, 58°, light rain

WELL INFORMATION

Reference Point Marked? YES NO Sample Time 13:10
 Height of Reference Point -0.58' Meas. From Grade Sample ID OPCA-MW-6
 Well Diameter 2" Duplicate ID _____
 Screen Interval Depth 14.54' - 24.54' Meas. From TIC MS/MSD _____
 Water Table Depth 18.68' Meas. From TIC Split Sample ID _____
 Well Depth 24.22' Meas. From TIC
 Length of Water Column 5.54'
 Volume of Water in Well 0.9 gallons
 Intake Depth of Pump/Tubing 21.45' Meas. From TIC

Reference Point Identification:

	Required	Analytical Parameters:	Collected
TIC: Top of Inner (PVC) Casing ' : Feet	<input type="checkbox"/>	VOCs (Standard List)	(3)
TOC: Top of Outer (Protective) Casing " : Inches	<input checked="" type="checkbox"/>	VOCs (Expanded List)	()
Grade/BGS: Ground Surface	<input type="checkbox"/>	SVOCs	(2)
Redevelop? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/>	PCBs (Unfiltered)	()
Additional well maintenance needed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if yes, describe below)	<input checked="" type="checkbox"/>	PCBs (Filtered)	(2)
	<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
	<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(1)
	<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
	<input type="checkbox"/>	Total Cyanide (Filtered)	()
	<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
	<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
	<input type="checkbox"/>	Pesticides/Herbicides	()
	<input type="checkbox"/>	Natural Attenuation	()
	<input checked="" type="checkbox"/>	Other (Specify)	(1)

EVACUATION INFORMATION

Pump Start Time 11:45 Specify other Parameter: Sulfide
 Pump Stop Time 14:03 Evacuation Method : Bailer () Bladder Pump ()
 Minutes of Pumping 138 Peristaltic Pump Submersible Pump () Other/Specify ()
 Volume of Water Removed 3.64 gallons Pump Type: _____
 Did Well Go Dry? YES NO Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7659 Turbidity Meter Type / Serial Number Geotech #6637

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
11:50	100	0.13	18.88	13.7	7.51	6	7.21	5.22	255.5
11:55	100	0.26	19.03	12.2	7.23	6.2	2.89	2.25	187.6
12:00	100	0.39	19.1	12.2	7.21	6.21	2.08	2.24	170.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7655. Geotech #6208. Initial purge water clear, no odor, no sheen. Final purge water clear, no odor, no sheen.

SAMPLE DESTINATION

Laboratory: SGS Orlando; Alpha Labs; Eurofins Lancaster
 Delivered Via: FedEx

Airbill #: 930443723170; 770407207527

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-6

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel PTR

PID Background (ppm) 0

Date 11/01/2022

Well Headspace (ppm) 0

Weather Cloudy, 58°, light rain

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:05	100	0.52	19.12	12.3	7.2	6.17	1.81	2.26	163.5
12:10	100	0.65	19.14	12.2	7.21	6.23	2.03	2.35	159.4
12:15	100	0.78	19.17	12.2	7.22	6.29	1.82	2.32	156
12:20	100	0.91	19.17	12.4	7.24	6.32	2.29	2.39	153.4
12:25	100	1.04	19.18	12.5	7.25	6.37	2.15	2.47	150.7
12:30	100	1.188	19.2	12.3	7.26	6.41	1.85	2.98	148.9
12:35	100	1.32	19.2	12.3	7.27	6.43	1.58	2.97	147.7
12:40	100	1.452	19.2	12.5	7.28	6.44	1.89	3.31	146
12:45	100	1.584	19.22	12.3	7.29	6.46	1.81	3.32	145
12:50	100	1.71	19.2	12.4	7.29	6.44	2.86	3.26	143.9
12:55	100	1.848	19.2	12.4	7.29	6.46	3.03	2.79	143.2
13:00	100	1.98	19.2	12.4	7.29	6.46	2.5	2.88	142.5
13:05	100	2.11	19.2	12.4	7.3	6.44	2.34	2.88	141.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-7
 Lock Present? YES NO
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name OPCA
 Sampling Personnel P. Rabasco
 Date 11/02/2022
 Weather Sunny, 63°

WELL INFORMATION

Reference Point Marked? YES NO
 Height of Reference Point -0.72' Meas. From Grade
 Well Diameter 2"
 Screen Interval Depth 13.64' - 23.64' Meas. From TIC
 Water Table Depth 22.5' Meas. From TIC
 Well Depth 23.51' Meas. From TIC
 Length of Water Column 1.01'
 Volume of Water in Well 0.16 gallons
 Intake Depth of Pump/Tubing _____ Meas. From TIC

Sample Time 11:55
 Sample ID OPCA-MW-7
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Required	Analytical Parameters:	Collected
<input checked="" type="checkbox"/>	VOCs (Standard List)	(3)
<input type="checkbox"/>	VOCs (Expanded List)	()
<input checked="" type="checkbox"/>	SVOCs	(2)
<input type="checkbox"/>	PCBs (Unfiltered)	()
<input checked="" type="checkbox"/>	PCBs (Filtered)	(2)
<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	()
<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	(1)
<input type="checkbox"/>	Total Cyanide (Unfiltered)	()
<input type="checkbox"/>	Total Cyanide (Filtered)	()
<input checked="" type="checkbox"/>	PAC Cyanide (Filtered)	(1)
<input checked="" type="checkbox"/>	PCDDs/PCDFs	(1)
<input type="checkbox"/>	Pesticides/Herbicides	()
<input type="checkbox"/>	Natural Attenuation	()
<input checked="" type="checkbox"/>	Other (Specify)	(1)

Reference Point Identification:

TIC: Top of Inner (PVC) Casing _____ ' : Feet
 TOC: Top of Outer (Protective) Casing _____ " : Inches
 Grade/BGS: Ground Surface
 Redevelop? YES NO
 Additional well maintenance needed? YES NO (if yes, describe below)

EVACUATION INFORMATION

Pump Start Time 12:54 Specify other Parameter: Sulfide
 Pump Stop Time 13:00 Evacuation Method : Bailer Bladder Pump
 Minutes of Pumping 6 Peristaltic Pump Submersible Pump Other/Specify
 Volume of Water Removed 0.16 gallons Pump Type: _____
 Did Well Go Dry? YES NO Samples collected by same method as evacuation? YES NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7613 Turbidity Meter Type / Serial Number Geotech #5963

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
12:56	100		22.7	15.2	7.12	1.001	648	4.16	-0.9
11:53	100		22.8	14.5	7.01	0.58	2.83	4.28	85.1
14:45	100		23.17	15.3	7.23	1.143	292	5.15	105.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7405, Geotech #6361. Well went dry after 6 minutes of pumping. Recovery very slow, it took days to collect all parameters of sample containers. Well would have about 750 ml before it went dry again. On 11/3 @ 11:55 and 14:45 collected PAC CN and metals sample time 11/3 @ 11:55. 11/4 @ 13:05 collected sulfide. 11/5 @ 16:30 collected PCBs. 11/6 @ 14:30; 11/7 @ 16:10 & 11/8 @ 16:30 collected SVOC sample date and time was 11/8 @ 16:30. 11/8 & 11/9 collected PCDD/PCDF sample date and time was 11/9 @ 17:30. VOC collected by PDB

SAMPLE DESTINATION

Laboratory: Alpha, SGS, Eurofins
 Delivered Via: FedEx

Airbill #: TBDField Sampling Coordinator: P. Rabasco**GROUNDWATER SAMPLING LOG**Well No. OPCA-MW-7Site/GMA Name OPCALock Present? YES NOSampling Personnel P. RabascoPID Background (ppm) 0Date 11/02/2022Well Headspace (ppm) 0Weather Sunny, 63°**WELL INFORMATION - See Page 1**

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:05	100		22.9	15.6	7.24	1.061	192	3.77	58.3
16:30	100		22.8	15.8	7.21	1.074	35.6	5.25	124.2
14:30	100		22.91	15.3	7.25	1.028	248	4.62	128.4
16:10	100		22.95	14.1	7.21	1.062	262	4.53	97.7
17:30	100		23	13.1	7.04	1.049	102	5.27	163.2

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:sampled on 12/1/22. Water color was cloudy and turbidity was high.

GROUNDWATER SAMPLING LOG

Well No. <u>OPCA-MW-8R</u>	Site/GMA Name <u>OPCA</u>
Lock Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sampling Personnel <u>P. Rabasco</u>
PID Background (ppm) <u>0</u>	Date <u>11/02/2022</u>
Well Headspace (ppm) <u>0.1</u>	Weather <u>Sunny, 65°</u>

WELL INFORMATION

Reference Point Marked? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sample Time <u>16:10</u>	
Height of Reference Point <u>1.9'</u> Meas. From <u>Grade</u>	Sample ID <u>OPCA-MW-8</u>	
Well Diameter <u>3"</u>	Duplicate ID _____	
Screen Interval Depth <u>7' - 27'</u> Meas. From <u>TIC</u>	MS/MSD _____	
Water Table Depth <u>19.7'</u> Meas. From <u>TIC</u>	Split Sample ID _____	
Well Depth <u>26.78'</u> Meas. From <u>TIC</u>		
Length of Water Column <u>7.08'</u>	Required	Analytical Parameters:
Volume of Water in Well <u>2.59 gallons</u>	<input checked="" type="checkbox"/> VOCs (Standard List)	Collected
Intake Depth of Pump/Tubing <u>23.24'</u> Meas. From <u>TIC</u>	<input type="checkbox"/> VOCs (Expanded List)	<input type="checkbox"/> (3)
	<input checked="" type="checkbox"/> SVOCs	<input type="checkbox"/> (2)
	<input type="checkbox"/> PCBs (Unfiltered)	<input type="checkbox"/> ()
	<input checked="" type="checkbox"/> PCBs (Filtered)	<input type="checkbox"/> (2)
	<input type="checkbox"/> Metals/Inorganics (Unfiltered)	<input type="checkbox"/> ()
	<input checked="" type="checkbox"/> Metals/Inorganics (Filtered)	<input type="checkbox"/> (1)
	<input type="checkbox"/> Total Cyanide (Unfiltered)	<input type="checkbox"/> ()
	<input type="checkbox"/> Total Cyanide (Filtered)	<input type="checkbox"/> ()
	<input checked="" type="checkbox"/> PAC Cyanide (Filtered)	<input type="checkbox"/> (1)
	<input checked="" type="checkbox"/> PCDDs/PCDFs	<input type="checkbox"/> (1)
	<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> ()
	<input type="checkbox"/> Natural Attenuation	<input type="checkbox"/> ()
	<input type="checkbox"/> Other (Specify)	<input type="checkbox"/> ()

Reference Point Identification:

TIC: Top of Inner (PVC) Casing	': Feet	<input type="checkbox"/>	Metals/Inorganics (Unfiltered)	<input type="checkbox"/> ()
TOC: Top of Outer (Protective) Casing	": Inches	<input checked="" type="checkbox"/>	Metals/Inorganics (Filtered)	<input type="checkbox"/> (1)
Grade/BGS: Ground Surface		<input type="checkbox"/>	Total Cyanide (Unfiltered)	<input type="checkbox"/> ()

Redevelop? **YES** **NO**

Additional well maintenance needed? **YES** **NO** (if yes, describe below)

EVACUATION INFORMATION

Pump Start Time <u>13:30</u>	Specify other Parameter: _____
Pump Stop Time <u>17:10</u>	Evacuation Method : <input type="checkbox"/> Bailer () <input type="checkbox"/> Bladder Pump ()
Minutes of Pumping <u>220</u>	<input checked="" type="checkbox"/> Peristaltic Pump () <input type="checkbox"/> Submersible Pump () <input type="checkbox"/> Other/Specify ()
Volume of Water Removed <u>6.79 gallons</u>	Pump Type: _____
Did Well Go Dry? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Samples collected by same method as evacuation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (Specify)

Water Quality Meter Type(s) / Serial Numbers: YSI Professional Plus / Geotech #7659 Turbidity Meter Type / Serial Number Geotech #6637

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:35	100	0.132	19.84	13.9	7.29	2.78	5.22	6.12	169
13:40	100	0.264	19.98	14.2	7.38	2.78	4.16	5.5	156
13:45	100	0.396	20.12	14.1	7.39	2.796	4.48	5.84	150.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: Mini Rae 3000 Geotech #7655. Geotech #6208. Initial purge water clear, no odor. Final purge water clear, no odor.

SAMPLE DESTINATION

Laboratory: SGS Orlando, Alpha
 Delivered Via: FedEx

Airbill #: TBD

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-8R

Site/GMA Name OPCA

Lock Present? YES NO

Sampling Personnel P. Rabasco

PID Background (ppm) 0

Date 11/02/2022

Well Headspace (ppm) 0.1

Weather Sunny, 65°

WELL INFORMATION - See Page 1

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1NTU]*	DO (mg/l) [10% or 0.1mg/l]*	ORP (mV) [10 mV]*
13:50	100	0.528	20.2	14.2	7.4	2.78	4.61	5.52	146.9
13:55	100	0.66	20.31	14.1	7.41	2.771	4.28	5.7	143.8
14:00	100	0.792	20.43	14.2	7.41	2.773	4	5.44	140.9
14:05	100	0.924	20.56	14.2	7.42	2.767	4.58	5.94	139.1
14:10	100	1.056	20.66	14.1	7.42	2.757	6.37	5.61	137.3
14:15	100	1.188	20.76	14.1	7.42	2.757	8.1	5.76	135.8
14:20	100	1.32	20.84	14.3	7.42	2.734	11	5.6	134.7
14:25	100	1.452	21	14.3	7.42	2.736	12.8	5.53	132.8
14:30	100	1.584	21.09	14.2	7.42	2.739	12.5	5.7	131.9
14:35	350	2.046	21.14	14.1	7.42	2.737	14.4	5.79	131.1
14:40	100	2.178	21.57	14	7.42	2.67	31.9	5.7	129.6
14:45	100	2.178	21.67	14.1	7.42	2.713	32.7	5.58	129.4
14:50	350	2.64	21.75	13.9	7.42	2.741	23.6	5.78	128.8
14:55	100	2.772	22.12	13.7	7.42	2.736	37.4	5.45	128.1
15:00	100	2.904	22.17	14.2	7.41	2.751	42.6	5.55	127.7
15:05	350	3.366	22.22	14.2	7.41	2.776	51.4	5.54	127.3
15:10	100	3.498	22.69	13.9	7.42	2.777	206	5.81	126.6
15:15	100	3.63	22.72	14	7.41	2.802	187	5.58	126.2
15:20	100	3.76	22.73	14.1	7.41	2.823	172	5.38	125.8
15:25	100	3.89	22.73	14.3	7.41	2.832	134	5.48	125.2
15:30	100	4.02	22.72	14.3	7.41	2.844	87.7	5.41	124.9
15:35	100	4.15	22.72	14.3	7.42	2.864	74.5	5.59	124.6
15:40	100	4.29	22.71	14.2	7.42	2.871	69.6	5.43	124.3
15:45	100	4.42	22.71	13.9	7.42	2.883	63.7	5.46	124
15:50	100	4.55	22.71	14.2	7.42	2.859	56.2	5.26	123.6
15:55	100	4.68	22.72	14.3	7.42	2.867	49.2	5.27	123.6
16:00	100	4.81	22.72	14.4	7.42	2.868	44.8	5.34	123.4
16:05	100	4.95	22.72	14.2	7.42	2.878	48.6	5.36	123.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS:

GROUNDWATER SAMPLING LOG

Well No. GMA4-9
 Key No. yes Masterlock
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0

Site/GMA Name GE P. Astfield GMA4
 Deployment Personnel P. Rabasco G. Rabasco
 Date/Time 11/14/22
 Weather Sunny, 36°

Sampling Personnel P. Rabasco G. Rabasco
 Date 12/1/22
 Weather Cloudy, 33°, Windy, Flurries

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point 2.28 ft Meas. From GS
 Well Diameter 2 inch
 Screen Interval Depth 5.28-17.29 ft Meas. From TIC
 12/1/22 9:40' Water Table Depth 9.65 ft Meas. From TIC
 Well Depth 17.98 ft Meas. From TIC
 Length of Water Column 8.33 ft
 Volume of Water in Well 1.36 gallons
 Center PDB = 13.47 ft

Sample Time 15:00
 Sample ID GMA4-9
 Duplicate ID -
 MS/MSD GMA4-9MS, GMA4-9MSD
 Split Sample ID -

Reference Point Identification:

BMP: Below Measuring Point
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/GSS: Ground Surface

ml = milliliters
 ft: feet or 1/100 feet
 gal: gallons
 ppm: parts per million

Redevelop? N
 Additional well maintenance needed? N (if yes, describe below)

Required	Analytical Parameters:	# Bottleware Collected
(3)	VOCs (Standard List)	(9)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB Information

PDB Length/diameter 24 inch / 1.75 inch
 PDB Material Poly 500ml
 PDBs Filled Lab / Field
 Tether Assembled Lab / Field
 Line/Tether Material diameter 3/16 inch
 Weight Type/Position Stainless steel weighted below PDB

Water Quality Meter Type(s)/Serial Numbers:
 YSI #: YSI Pro DSS # 6550 + # 7025
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: Mini Rae 3000 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208
Reck # 1369

PDB Collection				PDB replacement	
Depth	GW Appearance		Number of PDBs at	Depth	Number of
feet (bmp)	Color	Odor	Collection Depth	(ft bmp)	PDBs
13.47	clear	no odor	one		

	11/14/22	12/1/22
pH (SU)	6.72	6.86
Specific Conductivity (mS/cm)	1.027	0.794
ORP (mV)	243.6	259.8
Temperature (°C)	11.8	9.8
DO (mg/L)	2.63	1.40
(ntu) Turbidity	26.0	69.2

OBSERVATIONS/SAMPLING METHOD DEVIATIONS GW pumped up for turbidity sample with intake set at 13.47 feet. Other parameters obtained down hole with probe set at 13.47 feet. One PDB placed in well with middle set at 13.47 feet. Upon retrieval PDB removed and sampled first. GW pumped up for turbidity sample with intake set at 13.34 feet. Downhole parameters then obtained with probe set at 13.34 feet.

SAMPLE DESTINATION
 Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723090

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GWA Name: GE Pittsfield GMA4
 Deployment / Personnel: P. Rabasco G. Rabasco
 Date/Time: 11/14/22
 Weather: Sunny, 36°
 Well No.: GMA4-8
 Key No.: Masterlock
 PID Background (ppm): 0.0
 Well Headspace (ppm): 0.0
 Sampling Personnel: P. Rabasco, G. Rabasco
 Date: 12/01/22
 Weather: Cloudy, 34°, Windy, Snow Flurries

WELL INFORMATION

Reference Point Marked? ④ N
 Height of Reference Point: -0.48 ft Meas. From GS
 Well Diameter: 2 inch
 Screen Interval Depth: 9.52-31.52 ft Meas. From TIC
 12/1/22 25.76' Water Table Depth: 25.82 ft Meas. From TIC
 Well Depth: 31.63 ft Meas. From TIC
 Length of Water Column: 5.80 ft
 Volume of Water in Well: 0.92 ft³
 Center PDB = 28.67 ft

Sample Time: 15:30
 Sample ID: GMA4-8
 Duplicate ID: GMA4-DUP-1-120122
 MS/MSD: _____
 Split Sample ID: _____

Required	Analytical Parameters	# Bottlenecks Collected
(3)	VOCs (Standard List)	(6)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

Reference Point Identification:
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface
 Redevelop? Y N
 Additional well maintenance needed? Y N (if yes, describe below)

PDB Information

PDB Length/diameter: 18 inch / 1.75 inch
 PDB Material: Poly 350 ml
 PDBs Filled: Lab / Field
 Tether Assembled: Lab / Field
 Line/Tether Material diameter: 3/16 inch
 Weight Type/Position: stainless steel
Weighted below PDB

Water Quality Meter Types(s)/Serial Numbers:
 YSI #: YSI Pro DSS # 6550 # 7225
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: Mini Kale 3000 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208
Keck # 1369

PDB Collection				PDB replacement	
Depth	GW Appearance		Number of PDBs at	Depth	Number of
feet (bmp)	Color	Odor	Collection Depth	(ft bmp)	PDBs
28.67	Clear	NONE	One		

Downhole Field Parameters	11/14/22	12/01/22
pH (SU)	6.63	6.60
Specific Conductivity (mS/cm)	1,225	1,225 1,311
ORP (mV)	230.2	189.3
Temperature (°C)	11.8	11.8
DO (mg/L)	0.40	1.23
(ntu) Turbidity	19.3	81.5

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Turbidity obtained by bailer;
All other parameters obtained down hole with probe set
at 28.67 feet. One PDB placed in well with center of PDB at 28.67 ft.
Upon retrieval PDB removed and sampled first Turbidity sample
obtained by bailer. All other parameters obtained downhole with
set at 28.64 feet. (PDB)

SAMPLE DESTINATION

Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723090

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GMA Name: GE Pittsfield GMA4
 Deployment / Personnel: P. Rabasco G. Rabasco
 Date/Time: 11/14/22
 Weather: Sunny, 37°
 Well No.: GMA4-7S
 Key No.: yes Masterlock
 PID Background (ppm): 0.0
 Well Headspace (ppm): 0.1
 Sampling Personnel: P. Rabasco, G. Rabasco
 Date: 12/01/22
 Weather: Cloudy, 33°, Windy, Flurries

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point: 1.74 ft Meas. From: GS
 Well Diameter: 2 inch
 Screen Interval Depth: 11.74-26.74 ft Meas. From: TIC
 12/1/22 14.97' Water Table Depth: 17.20 ft Meas. From: TIC
 Well Depth: 26.42 ft Meas. From: TIC
 Length of Water Column: 9.22 ft
 Volume of Water in Well: 1.50 gallons
 Center PDB = 21.81 feet

Sample Time: 1650
 Sample ID: GMA4-7S
 Duplicate ID: ---
 MS/MSD: ---
 Split Sample ID: ---

Reference Point Identification:
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface
 Redevelop? Y N
 Additional well maintenance needed? Y N (if yes, describe below)

Required	Analytical Parameters	# Bottleware Collected
(3)	VOCs (Standard List)	(3)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/inorganics (Unfiltered)	()
()	Metals/inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB Information

PDB Length/diameter: 18 inch / 1.75 inch
 PDB Material: Poly 350nd
 PDBs Filled: Lab / Field
 Tether Assembled: Lab / Field
 Line/Tether Material diameter: 3/16 inch
 Weight Type/Position: stainless steel weight below PDB

Water Quality Meter Type(s)/Serial Numbers:
 YSI #: YSI Pro DSS # 6550 # 7225
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: MiniRae 3000 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208
Keck # 1369

PDB Collection				PDB replacement	
Depth	GW Appearance		Number of PDBs at	Depth	Number of
feet (bmg)	Color	Odor	Collection Depth	(ft bmg)	PDBs
21.81	clear	NONE	one		

Downhole Field Parameters

	11/14/22	12/1/22
pH (SU)	7.10	6.96
Specific Conductivity (mS/cm)	0.634	0.647
ORP (mV)	175.9	231.4
Temperature (°C)	12.16	12.3
DO (mg/L)	6.45	4.81
(ntu) Turbidity	41.9	89.5

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Turbidity sample pumped up with intake set at 21.81 feet, other parameters obtained downhole with probe set at 21.81 feet. One PDB placed in well with center set at 21.81 ft. Upon retrieval PDB removed and sampled first. GW pumped up for turbidity sample with intake set at 21.70 ft. Downhole parameters obtained with probe set at 21.70 ft.

SAMPLE DESTINATION

Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723090

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GMA Name GE Pittsfield GMA4
 Deployment | Personnel P. Rabasco, G. Rabasco
 Date/Time 11/14/22
 Weather Sunny, 37°
 Well No. H78B-16
 Key No. Masterlock
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.0
 Sampling Personnel P. Rabasco, G. Rabasco
 Date 12/01/22
 Weather Cloudy, 34°, Windy, Flurries

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point 3.56 ft Meas. From GS
 Well Diameter 1 inch
 Screen Interval Depth 7.16-17.16 ft Meas. From TIC
 12/1/22 11:70 Water Table Depth 12.16 ft Meas. From TIC
 Well Depth 16.92 ft Meas. From TIC
 Length of Water Column 4.76 ft
 Volume of Water in Well 0.19 gallons
 Center PDB = 14.54 ft

Sample Time 1630
 Sample ID H78B-16
 Duplicate ID ---
 MS/MSD ---
 Split Sample ID ---

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface
 Redevelop? Y N
 Additional well maintenance needed? Y N (if yes, describe below)

Required	Analytical Parameters	# Bottleware Collected
(3)	VOCs (Standard List)	(3)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB information

PDB Length/diameter 42 inch x 0.75 inch
 PDB Material Poly 200ml
 PDBs Filled Lab/Field
 Tether Assembled Lab (Field)
 Line/Tether Material diameter 3/16 inch
 Weight Type/Position stainless steel weight below PDB

Water Quality Meter Types(s)/Serial Numbers:

YSI #: YSI Pro DSS # 6550 # 7225
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: MinaKae 3000 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208
Reck # 1369

PDB Collection				PDB replacement	
Depth	GW Appearance		Number of PDBs at	Depth	Number of
feet (bmp)	Color	Odor	Collection Depth	(ft bmp)	PDBs
14.54	clear	None	One		

Downhole Field Parameters

	11/14/22	12/1/22
pH (SU)	6.99	6.85
Specific Conductivity (ms/cm)	0.823	0.834
ORP (mV)	16.75	245.17
Temperature (°C)	11.3	10.19
DO (mg/L)	4.41	3.69
(ntu) Turbidity	423	475

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Turbidity and other parameters obtained by pumping water into beaker with the intake set at 14.54 ft. and then obtaining reading. One PDB placed in well with center of PDB set at 14.54 ft. Upon retrieval PDB removed and sampled first. Turbidity sample and YSI parameters obtained by pumping water up into beaker with intake set at 14.31 feet.

Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723090

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GMA Name: GE Pittsfield OPCA's
 Deployment / Personnel: P. Rabasco G. Rabasco
 Date/Time: 11/14/22
 Weather: Sunny, 37°
 Well No.: OPCA-MW-7
 Key No.: yes Masterlock
 PID Background (ppm): 0.0
 Well Headspace (ppm): 0.0
 Sampling Personnel: P. Rabasco G. Rabasco
 Date: 12/1/22
 Weather: Cloudy, 32°, Windy, Flurries

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point: -0.72 ft Meas. From GS
 Well Diameter: 2 inch
 Screen Interval Depth: 13.64-23.64 ft Meas. From TIC
 12/1/22 23.06 Water Table Depth: 22.84 ft Meas. From TIC
 Well Depth: 23.51 ft Meas. From TIC
 Length of Water Column: 0.67 ft
 Volume of Water in Well: 0.11 gallons
 Center PDB = 23.18 ft

Sample Time: 17:30
 Sample ID: OPCA-MW-7
 Duplicate ID: ---
 MS/MSD: ---
 Split Sample ID: ---

Reference Point Identification:
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface
 Redevelop? Y (N)
 Additional well maintenance needed? Y (N) (if yes, describe below)

Required	Analytical Parameters:	# Bottlenecks Collected
(3)	VOCs (Standard List)	(3)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB Information

PDB Length/diameter: 12 inch / 1.75 inch
 PDB Material: Poly 150 ml
 PDBs Filled: (Lab) / Field
 Tether Assembled: Lab / Field
 Line/Tether Material diameter: 3/16 inch
 Weight Type/Position: stainless steel
Weighted below PDB.

Water Quality Meters Type(s)/Serial Numbers:
 YSI #: YSI Pro DSS # 6550 # 7225
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: MiniRae 300 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208
Reck # 1369

PDB Collection			PDB replacement	
Depth	GW Appearance	Number of PDBs at	Depth	Number of
feet (bmp)	Color	Collection Depth	(ft bmp)	PDBs
23.18	clear	One		

Downhole Field Parameters	11/14/22	12/1/22
	pH (SU)	7.10
Specific Conductivity (mS/cm)	1.006	1.093
ORP (mV)	-68.5	-109.7
Temperature (°C)	12.4	11.7
DO (mg/L)	4.25	3.56
Turbidity	61.4	499

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Turbidity pumped up with intake set at 23.18 feet. Other parameters obtained downhole with probe set at 23.18 feet. One PDB installed centered of PDB at 23.18 feet. Upon retrieval PDB removed and sampled first. GW pumped up for turbidity sample with intake set at 23.29 ft. Downhole parameters obtained at 23.29 feet.

SAMPLE DESTINATION
 Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723115

Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GMA Name GE Pittsfield OPCA's
 Deployment / Personnel P. Rabasco, G. Rabasco
 Date/Time 11/14/22
 Weather Sunny, 37°
 Well No. GMA4-6
 Key No. yes Masterlock
 PID Background (ppm) 0.0
 Well Headspace (ppm) 0.1
 Sampling Personnel P. Rabasco, G. Rabasco
 Date 12/10/22
 Weather Cloudy, 34°, Windy, Flurries

WELL INFORMATION

Reference Point Marked? Ⓝ N
 Height of Reference Point -0.35 ft Meas. From GS
 Well Diameter 2 inch
 Screen Interval Depth 2.70-12.70 ft Meas. From TIC
 12/1/22 9/173' Water Table Depth 10.24 ft Meas. From TIC
 Well Depth 12.63 ft Meas. From TIC
 Length of Water Column 2.39 ft
 Volume of Water in Well 0.39 gallon
 Center PDB = 11.44 ft

Sample Time 18:00
 Sample ID GMA4-6
 Duplicate ID ---
 MS/MSD ---
 Split Sample ID ---

Reference Point Identification:
 TIC: Top of Inner (PVC) Casing ml = milliliters
 TOC: Top of Outer (Protective) Casing BMP: Below Measuring Point
 Grade/BGS: Ground Surface ft: feet or 1/2 feet
 gat: gallons ppm: parts per million
 Redevelop? Y (N)
 Additional well maintenance needed? Y (N) (if yes, describe below)

Required	Analytical Parameters	# Bottleware Collected
(3)	VOCs (Standard List)	(3)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB Information

PDB Length/diameter 12 inch / 1.75 inch
 PDB Material Poly 150 ml
 PDBs Filled Lab / Field
 Tether Assembled Lab / Field
 Line/Tether Material diameter 3/16 inch
 Weight Type/Position stainless steel weighted below PDB

Water Quality Meter Type(s)/Serial Numbers:
 YSI #: YSI Tro DSS # 6550 # 7225
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: Mini Rae 3000 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208 Keck # 1369

PDB Collection				PDB replacement	
Depth	GW Appearance		Number of PDBs at	Depth	Number of
feet (bmp)	Color	Odor	Collection Depth	(ft bmp)	PDBs
11.44	clear	NONE	one		

Downhole Field Parameters	11/14/22	12/1/22
	pH (SU)	6.48
Specific Conductivity (mS/cm)	0.133	1.080
ORP (mV)	16.1	187.3
Temperature (°C)	13.5	11.6
DO (mg/L)	1.30	2.99
(ntu) Turbidity	16.2	43.0

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
Initial purgewater tea colored; no odor.
Turbidity obtained by pumping water up intake set at 11.44 feet. Other parameters obtained downhole probe set at 11.44 feet. PDB placed in well with middle set at 11.44 ft.
Upon retrieval the PDB was removed and sampled. Then turbidity sample was collected by pumping water up water intake set at 11.18 ft. Other parameters obtained downhole with probe set at 11.18 ft.
 Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723115
 Field Sampling Coordinator: P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GMA Name: GE Pittsfield, OPCA
 Deployment / Personnel: P. Rabasco / G. Rabasco
 Date/Time: 11/14/22
 Weather: Sunny, 36°
 Sampling Personnel: P. Rabasco, G. Rabasco
 Date: 12/11/22
 Weather: Cloudy, 35°, Flurries, Windy

Well No. OPCA-MW-ZR
 Key No. Masterlock
 FID Background (ppm) 0.0
 Well Headspace (ppm) 0.1

WELL INFORMATION

Reference Point Marked? (N)
 Height of Reference Point 2.04 ft Meas. From GS
 Well Diameter 2 inch
 Screen Interval Depth 12.04-27.04 ft Meas. From TIC
 12/11/22 23.64' Water Table Depth 23.82 ft Meas. From TIC
 Well Depth 27.15 ft Meas. From TIC
 Length of Water Column 3.33 ft
 Volume of Water in Well 0.512 gallons
 Center PDB 25.43 ft

Sample Time 14:30
 Sample ID OPCA-MW-ZR
 Duplicate ID OPCA-DUP-Z-120122
 MSHA/SD _____
 Split Sample ID _____

Reference Point Identification:

m = milliliters
 BMP: Below Measuring Point
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface
 gal: gallons
 ppm: parts per million
 Redevelop? Y (N)
 Additional well maintenance needed? Y (N) (if yes, describe below)

Required	Analytical Parameters	# Bottleware Collected
(3)	VOCs (Standard List)	(6)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB Information

PDB Length/diameter 18 inch / 1.75 inch
 PDB Material Poly 350 ml
 PDBs Filled Lab / Field
 Tether Assembled Lab / Field
 Line/Tether Material diameter 3/16 inch
 Weight Type/Position Stainless steel
Weighted below PDB

Water Quality Meter Type(s)/Serial Numbers:
 YSI #: YSI Pro DSS #6550 #7225
 HACH/LaMotte #: Geotech #7801
 Air Quality Meter Type(s)/Serial Numbers: Mini Rae 3000 #7543
 Water Level Meter Type(s)/Serial Numbers: Geotech #6208
Reck #1369

PDB Collection			PDB replacement	
Depth	GW Appearance	Number of PDBs at	Depth	Number of
feet (bmo)	Color	Collection Depth	(ft bmo)	PDBs
25.43	clear	one		

Downhole Field Parameters

	11/14/22	12/11/22
pH (SU)	6.52	6.44
Specific Conductivity (µs/cm)	0.664	0.693
ORP (mV)	261.2	216.6
Temperature (°C)	12.1	12.0
DO (mg/l)	2.60	2.83
(ntu) Turbidity	32.7	111

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Turbidity pumped up with intake set at 25.43 feet. Other parameters obtained downhole with probe set at 25.43 feet. One PDB placed in well with center of PDB equal to 25.43 ft. Upon retrieval PDB removed and sampled first. GW pumped up for Turbidity sample and intake set at 25.36 ft. Downhole parameters obtained at 25.36 ft.

SAMPLE DESTINATION

Laboratory: SGS Orlando
 Delivered Via: FeDEX
 Airbill #: 930443723115

Field Sampling Coordinator: L. Plumer P. Rabasco

GROUNDWATER SAMPLING LOG

Site/GMA Name: GE Pittsfield OPCA
 Deployment | Personnel: P. Rabasco
 Date/Time: 11/14/22
 Weather: Sunny, 36°
 Well No.: OPCA-MW-SR
 Key No.: Masterlock
 PID Background (ppm): 0.0
 Well Headspace (ppm): 0.0
 Sampling Personnel: A. Rabasco G. Rabasco
 Date: 12/1/22
 Weather: Cloudy, 35° Flurries Windy

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point: -8.21 ft Meas. From: GS
 Well Diameter: 2 inch
 Screen Interval Depth: 11.62-21.62 ft Meas. From: TIC
 12/1/22 12.60' Water Table Depth: 12.98 ft Meas. From: TIC
 Well Depth: 21.58 ft Meas. From: TIC
 Length of Water Column: 8.60 ft
 Volume of Water in Well: 1.40 gallon
 Center PDB: 17.28 ft

Sample Time: 13:50
 Sample ID: OPCA-MW-SR
 Duplicate ID: _____
 MS/MSD: OPCA-MW-SR MS; OPCA-MW-SR MS D
 Split Sample ID: _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing m = millimeter
 TOC: Top of Outer (Protective) Casing BMP: Below Measuring Point
 Grade/BGS: Ground Surface ft: feet or 1/2 feet
 Redevelop? Y (N) gat: gallons
 Additional well maintenance needed? Y (N) ppm: parts per million (if yes, describe below)

Required	Analytical Parameters:	# Bottleware Collected
(3)	VOCs (Standard List)	(9)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

PDB Information

PDB Length/Diameter: 24" / 1.75 inch
 PDB Material: Poly 500ml
 PDBs Filled: Lab / Field
 Tether Assembled: Lab / Field
 Line/Tether Material diameter: 3/16 inch
 Weight Type/Position: Stainless steel
Weighted below PDB

Water Quality Meter Type(s)/Serial Numbers:
 YSI #: YSI Pro DSS # 6550 #7225
 HACH/LaMotte #: Geotech # 7801
 Air Quality Meter Type(s)/Serial Numbers: Mini Rae 3000 # 7543
 Water Level Meter Type(s)/Serial Numbers: Geotech # 6208
Reck # 1369

PDB Collection				PDB replacement	
Depth	GW Appearance		Number of PDBs at	Depth	Number of
feet (bwp)	Color	Odor	Collection Depth	(ft bwp)	PDBs
17.28	Clear	NONE	One		

Downhole Field Parameters	11/14/22	12/1/22
pH (SU)	6.18	6.26
Specific Conductivity (mS/cm)	0.088	0.19
ORP (mV)	249.9	249.2
Temperature (°C)	14.0	13.2
DO (mg/L)	4.08	7.45
(ntu) Turbidity	61.4	237

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Turbidity pumped up with intake
Set at 17.28 feet, other parameters obtained downhole
with probe set at 17.28 feet. One PDB installed with
center of PDB set at 17.28 feet. Upon retrieval PDB removed and
sampled first. GW pumped up for Turbidity at intake set at 17.09 ft.
 Downhole Parameters obtained at 17.09 ft.

SAMPLE DESTINATION

Laboratory: SGS Orlando
 Delivered Via: Fedex
 Airbill #: 930443723115

Field Sampling Coordinator: P. Rabasco

Attachment S-1c

General Electric Company - Pittsfield, Massachusetts

GMA4

Site

GMA

WELL DEVELOPMENT FIELD LOG

BBL Personnel: A. Gibson Well ID: RF-15R
 Oversight Personnel: None Present Date: 9/22/22
 Client / Job Number: GE 30120712, 4004A.1 PID (ppm) 0.0
 Weather: 59°F, rainy Time In: 0845 Time Out: 1009

Well Information

Height of Reference Point (TIC): 0.25 (feet AGL) ^{BGS}
 Listed Total Depth of Well: 24 (feet BGS)
 Listed Screen Interval: 9-24 (feet BGS)
 Depth to Water (initial) (TIC) 16.18 (feet) Time 0847
 Depth to Water (with equipment) (TIC) 16.23 (feet) Time 0849
 Depth to Water (final) (TIC) 22.15 (feet) Time 0956
 Total Depth (initial) (TIC) 23.72 (feet)
 Total Depth (final) (TIC) 23.79 (feet)
 Depth to NAPL (TIC) ND (feet)
 (DNAPL or LNAPL)
 Length of Water Column: 7.54 (feet)
 Volume of Water in Well: 1.23 (gal)

Equipment

Probe Type: Water Level Interface
 Purging Method: Water Pump
 Other: Peri-700P, checkvalve/surge block
 Tubing Type: Polyethylene Teflon lined
 Well Diameter: 1" 2" Other:

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0851 Pump End time: 0956 1016 ^{AG}
 Duration of Pumping: 05 (min)
 Average Pumping Rate: (ml/min) Water-Quality Meter Type: Landolt Browne
 Total Volume Removed: (gal) Did well go dry: Yes No

Time Elapsed	0	5	10	15	20	25	30	35	40
Volume Purged (liters)	0	0.25	0.5	0.75	1.00	1.25	1.5	1.75	2.0
Rate (L/min)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Depth to Water (ft.)	16.23	16.39	16.52	16.73	16.84	16.98	17.05	17.10	17.13
Color	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Turbidity (NTU)	1000+	1000+	1000+	1000+	1000+	1000+	1000+	1000+	1000+
Temp @	A								
pH									
Conductivity (mS/cm)									
ORP (mV)									
DO (%)									

Swap to peri-pump

Note: Temperature, pH, and conductivity data will be collected if well development does not result in turbidities below 50 NTU. Optional parameters (i.e., ORP and DO) may also be collected.

Observations/Method Deviations

@ 0851 begins surge/purge with HDPE tubing, check valve and surge block. Initial purge water heavy with fine sand & silt, silt & sand repeatedly filled the check valve limiting purge rate, surging of screen done in 1 foot intervals for 5 minutes at each foot of saturated screen, surging continued for 40 minutes (0931) → continued on pg. 2

Attachment S-1c

General Electric Company - Pittsfield, Massachusetts

GMA4
GMA

Site

WELL DEVELOPMENT FIELD LOG

BBL Personnel: A. Gibson Well ID: RF-15R
 Oversight Personnel: None present Date: 9/22/22
 Client / Job Number: GE/30120712, 4004A.1 PID (ppm) 0.0
 Weather: 63°F, rainy Time In: _____ Time Out: 1926

Well Information

Height of Reference Point (TIC): 0.25 (feet ^{BGS} ~~ASB~~)
 Listed Total Depth of Well: 24 (feet BGS)
 Listed Screen Interval: 9-24 (feet BGS)
 Depth to Water (initial) (TIC): 16.18 (feet) Time: 0847
 Depth to Water (with equipment) (TIC): 16.23 (feet) Time: 0849
 Depth to Water (final) (TIC): 22.15 (feet) Time: 0956
 Total Depth (initial) (TIC): 23.79 (feet)
 Total Depth (final) (TIC): 23.79 (feet)
 Depth to NAPL (TIC) (DNAPL or LNAPL): ND (feet)
 Length of Water Column: 7.54 (feet)
 Volume of Water in Well: 1.23 (gal)

Equipment

Probe Type: Water Level Interface _____
 Purging Method: Water Pump
 Other: peristaltic pump, check valve, surge block
 Tubing Type: Polyethylene Teflon lined
 Well Diameter: 1" 2" Other _____

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Purging Information

Pump Start time: 0851 Pump End time: 1016
 Duration of Pumping: 85 (min)
 Average Pumping Rate: 165 (ml/min) Water-Quality Meter Type: Lamotte 2020we
 Total Volume Removed: 4.1 (gal) - calculated, 169 (gal) actual Did well go dry: Yes No

Time Elapsed	45 ¹	50 ²	55 ³	60 ⁴	65 ⁵	70 ⁶	75 ⁷	80 ⁸	85 ⁹
Volume Purged (liters)	3.5	5.0	6.5	8.0	9.5	11.0	12.5	14	15.5
Rate (L/min)	0.3	0.3	0.30	0.3	0.3	0.3	0.3	0.3	0.3
Depth to Water (ft.)	17.25	17.38	18.42	18.61	18.13	18.13	21.21	21.92	22.15
Color	Brown	Brown	Brown	Brown	Brown	cloudy	clear	clear	clear
Turbidity (NTU)	1000+	1000+	1000+	1000+	1000+	231	473	31.2	8.65
Temp @									
pH									
Conductivity (mS/cm)									
ORP (mV)									
DO (%)									

Note: Temperature, pH, and conductivity data will be collected if well development does not result in turbidities below 50 NTU. Optional parameters (i.e., ORP and DO) may also be collected.

Observations/Method Deviations

@ 0931 begin purging with peristaltic pump, tubing initially continuously agitated to keep from getting locked with sediment

APPENDIX B

Data Validation Reports



GE Pittsfield

Data Review

OPCA/GMA-4, MA

Fall 2022

Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), Polychlorinated Dibenzodioxins/ Polychlorinated Dibenzofurans (PCDD/PCDF), Metals, and Miscellaneous Analyses

SDGs # FC229, FC277, FC320, FC353, FC392, FC571, FC995, FC996

Analyses Performed By:

SGS North America Inc. - Orlando, Florida, USA

SGS North America Inc.- Wilmington, North Carolina, USA

Eurofins Lancaster Laboratories, Lancaster, Pennsylvania, USA

Alpha Analytical, Westborough, Massachusetts, USA

Report #48143R

Review Level: Tier I/II

Project: 30120721.4004/4007

DATA REVIEW REPORT

SUMMARY

This attachment summarizes the data validation review of Sample Delivery Groups (SDGs) FC229, FC277, FC320, FC353, FC392, FC571, FC995, FC996 performed on behalf of the General Electric Company (GE) for groundwater samples collected in Fall 2022 as part of groundwater sampling activities conducted at the Hill 78 and Building 71 On-Plant Consolidation Areas and Groundwater Management Area 4 located at the General Electric Company/Housatonic River Site in Pittsfield, Massachusetts. The review was conducted at Tier I and Tier II levels and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the sample qualifier summary sheets, sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG Number	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis					
						VOC	SVOC	PCB	D/F	MET	MISC
FC229	OPCA-MW-1RR	FC229-1	Water	10/31/2022		X	X	X	X	X	X
	OPCA-MW-3R	FC229-2	Water	10/31/2022		X	X	X	X	X	X
	OPCA-DUP-1-20221031	FC229-3	Water	10/31/2022	OPCA-MW-1RR	X	X	X	X	X	X
	TRIPBLANK-OPCA-1-103122	FC229-4	Water	10/31/2022		X					
FC277	78-6R	FC277-1	Water	11/01/2022		X	X	X	X	X	X
	OPCA-MW-6	FC277-2	Water	11/01/2022		X	X	X	X	X	X
	TRIPBLANK-OPCA-1-110122	FC277-3	Water	11/01/2022		X					
FC320	H78B-15	FC320-1	Water	11/02/2022		X	X	X	X	X	X
	OPCA-MW-8R	FC320-2	Water	11/02/2022		X	X	X	X	X	X
	GMA4-6	FC320-3	Water	11/02/2022			X	X	X	X	X
	TRIPBLANK-OPCA-3-110222	FC320-4	Water	11/02/2022		X					
FC353	78-1	FC353-1	Water	11/03/2022		X	X	X	X	X	X
	OPCA-MW-7	FC353-2	Water	11/03/2022						X	X
	OPCA-MW-4	FC353-3	Water	11/03/2022						X	X
	TRIPBLANK-OPCA-4-110322	FC353-4	Water	11/03/2022		X					
FC392	OPCA-MW-5R	FC392-1	Water	11/04/2022			X	X	X	X	X
	OPCA-MW-4	FC392-2	Water	11/03/2022		X	X	X	X		X
	OPCA-MW-2R	FC392-3	Water	11/04/2022			X	X	X	X	X

DATA REVIEW REPORT

SDG Number	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis					
						VOC	SVOC	PCB	D/F	MET	MISC
	TRIPBLANK-OPCA-5-110322	FC392-4	Water	11/03/2022		X					
	OPCA-MW-7	FC392-5	Water	11/04/2022							X
FC571	OPCA-MW-7	FC571-1	Water	11/05/2022				X			
	OPCA-MW-7	FC571-2	Water	11/08/2022			X				
	OPCA-MW-7	FC571-3	Water	11/09/2022					X		
FC995	GMA4-6	FC995-1	Water	12/01/2022		X					
	OPCA-MW-7	FC995-2	Water	12/01/2022		X					
	OPCA-MW-2R	FC995-3	Water	12/01/2022		X					
	OPCA-DUP-2-120122	FC995-4	Water	12/01/2022	OPCA-MW-2R	X					
	OPCA-MW-5R	FC995-5	Water	12/01/2022		X					
	TRIPBLANK-OPCA-1-120122	FC995-6	Water	12/01/2022		X					
FC996	H78B-16	FC996-1	Water	12/01/2022		X					
	GMA4-7S	FC996-2	Water	12/01/2022		X					
	GMA4-8	FC996-3	Water	12/01/2022		X					
	GMA4-9	FC996-4	Water	12/01/2022		X					
	GMA4-DUP-1-120122	FC996-5	Water	12/01/2022	GMA4-8	X					
	TRIPBLANK-GMA4-1-120122	FC996-6	Water	12/01/2022		X					

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi-volatile Organic Compounds

PCB = Polychlorinated Biphenyls

D/F = Dioxins/Furans

MET = Metals

MISC = Miscellaneous analyses includes PAC cyanide and sulfide

Dioxins/Furans analysis was performed at the laboratory SGS North America, Wilmington, North Carolina.

PAC Cyanide analysis was performed at the laboratory Alpha Analytical, Westborough, Massachusetts.

Sulfide analysis was performed at the laboratory Eurofins Lancaster Laboratories, Lancaster, Pennsylvania.

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA – Quality Assurance

SDGs# L2260916 (FC229), L2261215 (FC277), L2261565 (FC320), L2261927 (FC353), L2262242 (FC392): The case narrative noted that the samples were received at the laboratory below the appropriate pH for Physiologically Available Cyanide (PAC) analysis. The Arcadis Project Manager instructed the laboratory to filter and preserve the samples appropriately.

SDG# L2261215 (FC277): The sample receipt summary noted that the sample 78-6R (L2261215-01) identification did not match between chain-of-custody (COC) and container label. The container label list the ID as 76-6R, while the COC listed as 78-6R. The laboratory logged the sample ID as 78-6R based on the Arcadis Project Manager instruction.

SDG# FC392: The sample OPCA-MW-4 (FC392-2), and TRIPBLANK-OPCA-5-110322 (FC392-4) collection dates did not match between COC and sample result pages. The collection date per sample result pages is listed as 11/04/2022; while on COC it is listed as 11/03/2022. The sample collection dates per COC is considered and corrected in this data review report.

SDG# 410-104634-1 (FC392): The Job narrative noted that the sample OPCA-MW-4 (410-104634-2) vials received broken or leaking at the laboratory.

DATA REVIEW REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260D, 8270E, 8082A, and 8290A. Data were reviewed in accordance with Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (Revision 5 submitted by GE on July 2, 2013; and approved by EPA on July 23, 2013); and EPA Region I, EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses (July 1996, revised December 1996) (EPA Region I Guidelines).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration I Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

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that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

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VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u. with hydrochloric acid

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria with the below exceptions:

Sample ID	Holding Time Criteria	Exceedance
<u>SDG# FC229</u> OPCA-MW-1RR (Run #2) OPCA-DUP-1-20221031 (Run #2)	14 days from collection to analysis (preserved)	The sample was re-analyzed on 22 nd day from collection.
<u>SDG# FC229</u> OPCA-MW-3R (Run #2) TRIPBLANK-OPCA-1-103122 (Run #2)		The sample was re-analyzed on 21 st day from collection.
<u>SDG# FC392</u> OPCA-MW-4 (Run #2) TRIPBLANK-OPCA-5-110322 (Run #2)		The sample was re-analyzed on 17 th day from collection.

The results associated with samples analyzed by analytical method SW-846 8260D were qualified, as specified in the table below.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ
Analysis completed greater than two times holding time	J	R

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

2. Sample Receipt Condition

SDG# FC229: The laboratory received VOC vials with significant headspace for sample OPCA-DUP-1-20221031 (FC229-3). In case of any deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
Bubbles in VOC vials < 6 mm	Non-detect	No Action

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Control Limit	Sample Result	Qualification
	Detect	No Action
Bubbles in VOC vials > 6 mm	Non-detect	UJ
	Detect	J

SDG# FC229: The sample re-analysis was performed by using the vial which contain headspace greater than 6mm in size; hence, the run #2 results were qualified for the above-mentioned sample.

SDG# FC229: The case narrative noted that the sample TRIPBLANK-OPCA-1-110122 (FC277-3) vial contained bubbles greater than 6mm; the sample re-analyzed beyond holding time. However, none of the target compounds were reported from the re-analysis batch #V1P3636. Hence, the initial analysis results are considered useable, and no qualification was applied.

3. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# FC229, FC277, FC320, FC353, FC392, FC571, FC995, FC996: Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

4. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

5. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

5.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05). The initial calibration standard must exhibit a percent difference (%D) less than the control limit (25%).

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All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial/Continuing Calibration	Compounds	Criteria
<u>SDG# FC229</u> OPCA-MW-1RR OPCA-MW-3R OPCA-DUP-1-20221031 TRIPBLANK-OPCA-1-103122 <u>SDG# FC277</u> 78-6R OPCA-MW-6 TRIPBLANK-OPCA-1-110122 <u>SDG# FC353</u> 78-1 TRIPBLANK-OPCA-4-110322	Initial & Continuing Calibration RRF	1,4-Dioxane	RRF- 0.006
<u>SDG# FC320</u> H78B-15 OPCA-MW-8R GMA4-6 <u>SDG# FC392</u> OPCA-MW-4 (Run #1) TRIPBLANK-OPCA-5-110322 (Run #1) <u>SDG# FC995</u> GMA4-6 OPCA-MW-7 OPCA-MW-2R OPCA-DUP-2-120122 OPCA-MW-5R TRIPBLANK-OPCA-1-120122 <u>SDG# FC996</u> H78B-16 GMA4-7S GMA4-8 GMA4-9 GMA4-DUP-1-120122 TRIPBLANK-GMA4-1-120122	Initial & Continuing Calibration RRF	1,4-Dioxane	RRF- 0.005
<u>SDG# FC996</u> H78B-16 GMA4-7S GMA4-8 GMA4-9 GMA4-DUP-1-120122 TRIPBLANK-GMA4-1-120122	ICV %D	Acrolein	-78.3%
		Acrylonitrile	-49.8%
		Methyl Iodide (Iodomethane)	-29.2%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

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Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 30% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD > 90%	Non-detect	R
		Detect	J
Initial Calibration Verification (ICV)	%D > 25% (increase/decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D > 90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4 dioxane, etc.)
2. 1,4-dioxane exhibited an instrument response factor (RF) below the USEPA Region I minimum value of 0.01. This compound was analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.01 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of this compound, the RF is an inherent problem with the current analytical methodology. The chromatograms were also inspected, and it was determined that the area counts are significant enough that if 1,4-dioxane were present in the samples, it would register as a detected compound. Therefore, the non-detect sample results were qualified as estimated (UJ).

SDGs# FC277, FC353: The data package noted that the initial calibration is invalid for the compound vinyl acetate associated with the samples 78-1, and TRIPBLANK-OPCA-4-110322. Hence, the associated sample results were qualified as estimated.

5.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (25%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Continuing Calibration	Compounds	Criteria
<u>SDG# FC229</u> OPCA-MW-1RR	CCV %D	Methyl chloride (Chloromethane)	+33.6%

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Sample ID	Continuing Calibration	Compounds	Criteria
OPCA-MW-3R OPCA-DUP-1-20221031 TRIPBLANK-OPCA-1-103122 <u>SDG# FC277</u> 78-6R OPCA-MW-6 TRIPBLANK-OPCA-1-110122		Acrolein	+37.7%
		Acetonitrile	+35.0%
		Isobutyl alcohol	+26.1%
<u>SDG# FC320</u> H78B-15 OPCA-MW-8R TRIPBLANK-OPCA-3-110222	CCV %D	Chloroethane	+47.2%
<u>SDG# FC353</u> 78-1 TRIPBLANK-OPCA-4-110322	CCV %D	Methyl chloride (Chloromethane)	+25.3%
		Allyl chloride	+35.7%
<u>SDG# FC392</u> OPCA-MW-4 (Run #1) TRIPBLANK-OPCA-5-110322 (Run #1)	CCV %D	Chloroethane	+55.7%
		Allyl chloride	+37.4%
		2-Chloroethyl vinyl ether	-26.2%
<u>SDG# FC995</u> GMA4-6 OPCA-MW-7 OPCA-MW-2R OPCA-DUP-2-120122 OPCA-MW-5R TRIPBLANK-OPCA-1-120122	CCV %D	Methyl bromide (Bromomethane)	-41.3%
		Bromoform	+26.5%
<u>SDG# FC996</u> H78B-16 GMA4-7S GMA4-8 GMA4-9 GMA4-DUP-1-120122 TRIPBLANK-GMA4-1-120122	CCV %D	Dichlorodifluoromethane	-35.9%
		Acrolein	-29.0%

Note: The laboratory was reported the CCV %Deviation as a negative number. The average response factor compared to the continuing calibration response factor (CCRF), if the CCRF is higher, it represents an increase sensitivity. Hence, the deviation numbers changed from negative sign (-) to positive (+) sign in this report.

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration Verification (CCV)	%D > 25% (increase/decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D > 90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

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6. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

7. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within 20%.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDGs# FC277, FC320, FC353, FC392: The MS/MSD analysis was not performed on sample associated with these SDGs.

SDG# FC229: The MS/MSD analysis performed on a sample OPCA-MW-3R.

SDG# FC995: The MS/MSD analysis performed on a sample GMA4-9.

SDG# FC996: The MS/MSD analysis performed on a sample GMA4-9.

The MS/MSD analysis exhibiting recoveries outside of the control limits are presented in the following table.

Sample ID	Compounds	MS Recovery	MSD Recovery
<u>SDG# FC229</u> OPCA-MW-3R	2-Chloroethyl Vinyl Ether	< 10%	< 10%
	1,2-Dichloropropane	>UL	AC
	Methyl Iodide (Iodomethane)	>UL	>UL
<u>SDG# FC995</u> OPCA-MW-5R	2-Chloroethyl Vinyl Ether	< 10%	< 10%
	Methyl bromide (Bromomethane)	<LL but >10%	<LL but >10%
	Methyl Iodide (Iodomethane)	<LL but >10%	AC
<u>SDG# FC996</u> GMA4-9	2-Chloroethyl Vinyl Ether	< 10%	< 10%

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Notes:

AC = Acceptable

LL = Lower control limit

UL = Upper control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action

Samples associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample ID	Compounds
<u>SDG# FC229</u> OPCA-MW-3R	Methyl bromide (Bromomethane)
<u>SDG# FC995</u> OPCA-MW-5R	Methyl iodide (Iodomethane)

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

9. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

SDGs# FC320, FC353, FC995: Samples associated with LCS analysis exhibited recoveries within the control limits.

Samples associated with LCS analysis exhibiting recoveries outside of the control limits presented in the following table.

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Sample ID	Batch	Compounds	LCS Recovery
SDG# FC229 OPCA-MW-1RR OPCA-MW-3R OPCA-DUP-1-20221031 TRIPBLANK-OPCA-1-103122	VI2747	Bromodichloromethane	<LL but >10%
SDG# FC229 OPCA-MW-1RR OPCA-DUP-1-20221031	VY2748	1,2,3-Trichloropropane	<LL but >10%
SDG# FC277 78-6R OPCA-MW-6 TRIPBLANK-OPCA-1-110122	VI2747	Bromodichloromethane	<LL but >10%
		Chloroform	
		1,2-Dichloroethane	
		Trichloroethylene	
		1,2,3-Trichloropropane	
SDG# FC392 OPCA-MW-4 TRIPBLANK-OPCA-5-110322	V2P3637	Allyl Chloride	> UL
		Methyl Methacrylate	
SDG# FC996 H78B-16 GMA4-7S GMA4-8 GMA4-9 GMA4-DUP-1-120122 TRIPBLANK-GMA4-1-120122	VI2782	Propionitrile	<LL but >10%

Notes:

UL = Upper control limit

LL = Lower control limit

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

10. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

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SDGs# FC277, FC320, FC353, FC392: A field duplicate samples were not collected within these SDGs.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compounds	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
<u>SDG# FC229</u>	Methylene Chloride	32.8 J	29.7 J	AC
OPCA-MW-1RR / OPCA-DUP-1-20221031	Tetrachloroethylene	481	500	3.9%
	Trichloroethylene	11.2	10 U	AC
<u>SDG# FC995</u>	All target compounds	U	U	AC
OPCA-MW-2R / OPCA-DUP-2-120122				
<u>SDG# FC996</u>	Acetone	13.9 J	13.8 J	AC
GMA4-8 / GMA4-DUP-1-120122				

Note:

AC = Acceptable

The results between the parent samples and field duplicates were acceptable.

11. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

12. System Performance and Overall Assessment

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

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DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times/Preservation		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X	X		
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration verification %Ds		X	X		
Continuing calibration RRFs		X	X		
Continuing calibration verification %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	

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VOCs: SW-846 8260D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present	Not required for Tier II plus calibration				
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

- %RSD Relative standard deviation
- %R Percent recovery
- RPD Relative percent difference
- %D Percent difference

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SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270E	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria with the below exceptions:

Sample ID	Holding Time Criteria	Exceedance
<u>SDG# FC571</u> OPCA-MW-7	7 days from collection to extraction	The sample was extracted on 8 th day from collection.

The results associated with samples analyzed by analytical method SW-846 8270E were qualified, as specified in the table below.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

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The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05). The initial calibration standard must exhibit a percent difference (%D) less than the control limit (25%).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial Calibration	Compounds	Criteria
<u>SDG# FC229</u> OPCA-MW-1RR OPCA-MW-3R OPCA-DUP-1-20221031	ICV %D	Methyl methanesulfonate	+27.5%
<u>SDG# FC277</u> 78-6R OPCA-MW-6		3,3'-Dimethylbenzidine	+130.5%
<u>SDG# FC320</u> H78B-15 OPCA-MW-8R GMA4-6		Hexachlorophene	+159.8%
<u>SDG# FC353</u> 78-1		Methapyrilene	+167.5%
<u>SDG# FC392</u> OPCA-MW-5R OPCA-MW-4 OPCA-MW-2R			
<u>SDG# FC571</u> OPCA-MW-7			

Note: The laboratory was reported the CCV %Deviation as a negative number. The average response factor compared to the continuing calibration response factor (CCRF), if the CCRF is higher, it represents an increase sensitivity. Hence, the deviation numbers changed from negative sign (-) to positive (+) sign in this report.

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

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Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
Initial Calibration	%RSD > 30% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD > 90%	Non-detect	R
		Detect	J
Initial Calibration Verification (ICV)	%D > 25% (increase/decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D > 90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (25%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Continuing Calibration	Compounds	Criteria	
<u>SDG# FC229</u>	CCV %D	N-Nitrosodiethylamine	+28.1%	
OPCA-MW-1RR		Ethyl methanesulfonate	+30.0%	
OPCA-MW-3R		N-Nitrosopyrrolidine	+36.2%	
OPCA-DUP-1-20221031		N-Nitrosomorpholine	+26.5%	
<u>SDG# FC277</u>		O-Toluidine	+34.3%	
78-6R		Isosafrole	+26.5%	
OPCA-MW-6		2-Naphthylamine	+26.0%	
<u>SDG# FC320</u>		4-Aminobiphenyl	+28.1%	
H78B-15		3,3'-Dimethylbenzidine	+31.0%	
OPCA-MW-8R		7,12-Dimethylbenz(a)anthracene	+27.8%	
GMA4-6		Hexachlorophene	-96.1%	
<u>SDG# FC353</u>		3-Methylcholanthrene	+27.8%	
78-1		Diallate	-40.5%	
<u>SDG# FC392</u>		Aramite	-53.0%	
OPCA-MW-5R		CCV %D	Hexachlorocyclopentadiene	-33.0%
OPCA-MW-4			Hexachlorophene	-91.6%
OPCA-MW-2R				

Note: The laboratory was reported the CCV %Deviation as a negative number. The average response factor compared to the continuing calibration response factor (CCRF), if the CCRF is higher, it represents an increase sensitivity. Hence, the deviation numbers changed from negative sign (-) to positive (+) sign in this report.

DATA REVIEW REPORT

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Continuing Calibration Verification (CCV)	%D > 25% (increase/decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D > 90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDGs# FC277, FC320, FC353, FC392, FC571: The MS/MSD analysis was not performed on samples associated with these SDGs.

SDG# FC229: The MS/MSD analysis performed on a sample OPCA-MW-2R.

Samples associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

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Sample ID	Compounds	MS Recovery	MSD Recovery
<u>SDG# FC229</u> OPCA-MW-3R	3,3'-Dimethylbenzidine	>UL	>UL
	Hexachlorophene	<10%	<10%
	Methapyrilene	<10%	<10%
	p-Phenylenediamine	<10%	<10%

Notes:

AC = Acceptable

UL = Upper control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Samples associated with LCS analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample ID	Batch	Compound	LCS Recovery
<u>SDG# FC229</u> OPCA-MW-1RR OPCA-MW-3R OPCA-DUP-1-20221031	OP93942	3,3'-Dimethylbenzidine	> UL
<u>SDG# FC277</u> 78-6R OPCA-MW-6			
<u>SDG# FC320</u> H78B-15 OPCA-MW-8R GMA4-6			

DATA REVIEW REPORT

Sample ID	Batch	Compound	LCS Recovery
<u>SDG# FC353</u> 78-1	OP93942	3,3'-Dimethylbenzidine	> UL
<u>SDG# FC392</u> OPCA-MW-5R OPCA-MW-4 OPCA-MW-2R			
<u>SDG# FC571</u> OPCA-MW-7	OP94115		

Note:

UL = Upper control limit

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# FC277, FC320, FC353, FC392, FC571: A field duplicate samples were not collected within these SDGs.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compounds	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
<u>SDG# FC229</u> OPCA-MW-1RR / OPCA-DUP-1-20221031	All target compounds	U	U	AC

Note:

AC = Acceptable

The results between the parent samples and field duplicates were acceptable.

DATA REVIEW REPORT

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X	X		
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration verification %Ds		X	X		
Continuing calibration RRFs		X		X	
Continuing calibration verification %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	

DATA REVIEW REPORT

SVOCs: SW-846 8270E	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Quantitation transcriptions/calculations	Not required for Tier II plus calibration				
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA REVIEW REPORT

POLYCHLORINATED BIPHENYLS (PCBs) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8082A	Water	One year from collection to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed or a correlation coefficient greater than 0.99. Multiple-point calibrations were performed for Aroclor 1016 and 1260 only. Single-point calibrations were performed for the remaining Aroclors. The initial calibration standard must exhibit a percent difference (%D) less than the control limit (15%).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (15%).

All Aroclors associated with calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

DATA REVIEW REPORT

Sample ID	Initial/Continuing	Compounds	Criteria
<u>SDG# FC229</u> OPCA-MW-1RR OPCA-MW-3R OPCA-DUP-1-20221031	ICV %D	Aroclor 1221	+26.0%
<u>SDG# FC277</u> 78-6R OPCA-MW-6		Aroclor 1242	+27.4%
<u>SDG# FC320</u> H78B-15 OPCA-MW-8R GMA4-6		Aroclor 1248	+37.4%
<u>SDG# FC353</u> 78-1			
<u>SDG# FC392</u> OPCA-MW-5R OPCA-MW-4 OPCA-MW-2R			
<u>SDG# FC571</u> OPCA-MW-7			

Note: The laboratory was reported the CCV %Deviation as a negative number. The average response factor compared to the continuing calibration response factor (CCRF), if the CCRF is higher, it represents an increase sensitivity. Hence, the deviation numbers changed from negative sign (-) to positive (+) sign in this report.

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration Verification (ICV) / Continuing Calibration Verification (CCV)	%D >15% (increase/decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that one of the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

DATA REVIEW REPORT

All surrogate recoveries reported from the primary column were within control limits.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDGs# FC320, FC353, FC392, FC571: The MS/MSD analysis was not performed on samples associated with these SDGs.

SDG# FC229: The MS/MSD analysis performed on a sample OPCA-MW-3R exhibited recoveries and RPDs within the control limits.

SDG# FC277: The MS/MSD analysis performed on a sample 78-6R exhibited recoveries and RPDs within the control limits.

7. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# FC277, FC320, FC353, FC392, FC571: A field duplicate samples were not collected within these SDGs.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compounds	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
<u>SDG# FC229</u> OPCA-MW-1RR / OPCA-DUP-1-20221031	All target compounds	U	U	AC

Note:

AC Acceptable

The results between the parent samples and field duplicates were acceptable.

DATA REVIEW REPORT

9. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns. When dual column analysis is performed the relative percent difference (%RPD) of detected sample results must be less than 40%.

The dual column analysis exhibited an acceptable %RPD between columns.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR PCBs

PCBs; SW-846 8082A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/ECD)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Column (RPD) (If dual column is performed-not confirmation purposes only)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
Initial calibration %RSDs		X		X	
Initial / Continuing calibration verifications %Ds		X	X		
System performance and column resolution		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Pattern identification		X		X	
D. Transcription/calculation errors present	Not required for Tier II plus calibration				
E. Reporting limits adjusted to reflect sample dilutions		X		X	
%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference, %D – difference					

DATA REVIEW REPORT

POLYCHLORINATED DIBENZODIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURNAS (PCDFs) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8290A	Water	30 days from collection to extraction (one year if kept frozen) and 45 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (ten times for OCDD/F & total homologues) is calculated for QA blanks containing concentrations greater than the detection limit (DL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# FC229, FC277, FC320, FC353, FC392: Compounds were not detected above the DL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

SDG# FC571: Compound OCDD was detected in the associated method blank- 19686; however, the associated sample result was greater than the BAL. No qualification of the sample results was required.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum relative standard deviation (RSD) of 15% is allowed for all non-labeled compounds (target) and 30% is allowed for all labeled compounds (internal standards and recovery standards).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit percent difference (%D) less than the control limit (20%).

DATA REVIEW REPORT

All compounds associated with the continuing calibrations were within the specified control limits.

5. Labeled Standard Performance

Labeled standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the labeled standards exhibit recoveries within the control limits of 40% to 135%.

All labeled standard responses were within control limits.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDGs# FC277, FC320, FC353, FC392, FC571: The MS/MSD analysis was not performed on samples associated with these SDGs.

SDG# FC229: The MS/MSD analysis performed on a sample OPCA-MW-3R exhibited recoveries and RPDs within the control limits.

7. Ongoing Precision Result (OPR) / Laboratory Control Sample (LCS) Analysis

The Ongoing Precision Result/Laboratory Control Sample (OPR/LCS) analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the OPR analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# FC277, FC320, FC353, FC392, FC571: A field duplicate samples were not collected within these SDGs.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compounds	Sample Result (pg/L)	Duplicate Result (pg/L)	RPD
<u>SDG# FC229</u>	1234678-HpCDF	2.68 J	1.35 U	AC
OPCA-MW-1RR / OPCA-DUP-1-20221031	Total HpCDF	2.68 J	1.35 U	AC

Notes:

U = non-detect

AC = Acceptable

The results between the parent samples and field duplicates were acceptable.

DATA REVIEW REPORT

9. Compound Identification

PCDD/PCDF compounds are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times.

An EMPC or "estimated maximum possible concentration" designation is given to compounds which have signals eluting within the established retention time window which would, if positively identified, be above the detection limit. The signals do not, however, meet the ion abundance ratio criteria and cannot be identified as the compound of interest. The EMPC value is the estimated concentration of the interferant quantitated "as" the compound of interest." This value should be considered an elevated detection limit based on potential compound identification and quantitation interference.

Sample results qualified by the laboratory as "EMPC" (ion abundance ratio outside criteria; estimated maximum possible concentration reported) have been qualified as estimated. The associated total results will also be qualified. The reported qualifier will be JNX.

Sample ID	Compounds	Lab Result	Reported Result
<u>SDG# FC229</u> OPCA-MW-3R	OCDD	5.24 EMPC	5.24 JNX
<u>SDG# FC277</u> 78-6R	1234678-HpCDD	5.92 EMPC	5.92 JNX
	OCDD	15.4 EMPC	15.4 JNX
	123478-HxCDF	3.91 EMPC	3.91 JNX
	123789-HxCDF	5.28 EMPC	5.28 JNX
	1234678-HpCDF	3.86 EMPC	3.86 JNX
<u>SDG# FC392</u> OPCA-MW-2R	OCDF	10.7 EMPC	10.7 JNX
	OCDD	8.7 EMPC	8.7 JNX
<u>SDG# FC571</u> OPCA-MW-7	123678-HxCDF	2.19 EMPC	2.19 JNX
	234678-HxCDF	2.44 EMPC	2.44 JNX
	1234678-HpCDF	10 EMPC	10 JNX
	1234789-HpCDF	1.66 EMPC	1.66 JNX

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR PCDDs/PCDFs

PCDDs/PCDFs; SW-846 8290A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
HIGH-RESOLUTION GAS CHROMATOGRAPHY/HIGH-RESOLUTION MASS SPECTROMETRY (HRGC/HRMS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Labeled Standard Recovery (%R)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs					
Initial / Continuing calibration verifications %Ds					
Instrument tune and performance check		X	X		
Ion abundance criteria for each instrument used		X		X	
Compound identification and quantitation					
Signal-to-noise ratio \geq 10:1					
Internal standard performance					
Recovery standard performance					
Resolution mix \leq 25%					
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	

DATA REVIEW REPORT

PCDDs/PCDFs; SW-846 8290A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
HIGH-RESOLUTION GAS CHROMATOGRAPHY/HIGH-RESOLUTION MASS SPECTROMETRY (HRGC/HRMS)					
D. Transcription/calculation errors present	Not required for Tier II plus calibration				
E. Reporting limits adjusted to reflect sample dilutions		X		X	
%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference, %D – difference					

DATA REVIEW REPORT

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010C, 7470A, 9014, and 9034. Data were reviewed in accordance with Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (Revision 5 submitted by GE on July 2, 2013 and approved by EPA on July 23, 2013); EPA Region I, EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses (July 1996, revised December 1996) (EPA Region I Guidelines); and EPA Region I, Part IV, Inorganic Data Validation Functional Guidelines of the EPA Region I Guidelines (November 2008).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA REVIEW REPORT

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D	Water	180 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# FC277: Analyte zinc was detected in the associated method blank batch- MP41458; however, the associated sample results were non-detect. No qualification of the sample results was required. All other criteria were met.

SDGs# FC229, FC353: Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) from the data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Analyte	Sample Result	Qualification
<u>SDG# FC320</u> GMA4-6 <u>SDG# FC392</u> OPCA-MW-5R	Zinc (MB)	Detected sample results <RL and <BAL	"U" at the RL

Notes:

MB = Method blank

RL = Reporting limit

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of

DATA REVIEW REPORT

acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

3.2 RL Check Standard

The RL check standard serves to verify the linearity of calibration of the analysis at the reporting limit. The RL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the RL standard analysis are presented below in the RL standards evaluation table (if applicable).

All RL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/ Matrix Spike Duplicate (MS/MSD) / Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recoveries control limits do not apply for MS/MSD performed on samples where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

SDGs# FC277, FC353, FC392: The MS/MSD analysis was not performed on samples associated with these SDGs.

SDG# FC229: The MS/MSD analysis performed on a sample OPCA-MW-3R exhibited recoveries and RPD within the control limits.

SDG# FC320: The MS/MSD analysis was not performed on sample for the analytical method SW-846 6010D.

SDG# FC320: The MS/MSD analysis performed on a sample H78B-15 for the analyte mercury exhibited recoveries and RPD within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

DATA REVIEW REPORT

SDGs# FC277, FC353, FC392: The laboratory duplicate analysis was not performed on samples associated with these SDGs.

SDG# FC229: The laboratory duplicate analysis performed on a sample OPCA-MW-3R exhibited acceptable RPD values.

SDG# FC320: The laboratory duplicate analysis was not performed on sample for the analytical method SW-846 6010D.

SDG# FC320: The laboratory duplicate analysis performed on a sample H78B-15 for the analyte mercury exhibited acceptable RPD value.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# FC277, FC320, FC353, FC392: A field duplicate samples were not collected within these SDGs.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analytes	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
<u>SDG#FC229</u> OPCA-MW-1RR / OPCA-DUP-1-20221031	Barium	27.9 J	27.7 J	AC
	Cadmium	0.80 J	0.80 J	AC
	Copper	25 U	1.7 J	AC
	Mercury	0.50 U	0.091 J	AC

Notes:

U = non-detect

AC = Acceptable

The results between the parent samples and field duplicates were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

SDGs# FC277, FC353, FC392: The serial dilution analysis was not performed on a sample associated with these SDGs.

DATA REVIEW REPORT

SDG# FC229: The serial dilution analysis performed on a sample OPCA-MW-3R exhibited %D within the control limits.

SDG# FC320: The serial dilution analysis was not performed on sample for the analytical method SW-846 6010D.

SDG# FC320: The serial dilution analysis performed on a sample H78B-15 for the analyte mercury exhibited %D within the control limits.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6010D/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)					
Atomic Absorption Technique – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X	X		
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
ICP Serial Dilution %D		X		X	
Total vs. Dissolved	X				X
Reporting Limit Verification		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard Recovery		X		X	
ICP Interference Check		X		X	
ICP-MS Internal Standards		X		X	
Transcription/calculations acceptable	Not required for Tier II plus calibration				
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R Percent recovery
 RPD Relative percent difference

DATA REVIEW REPORT

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
PAC Cyanide by SW-846 9014	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12
Sulfide by SW-846 9034	Water	7 days from collection to analysis	Preserved to a pH of greater than 9 with Zinc acetate

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 and all initial calibration verification standard recoveries were within control limits.

Cyanide: The calibration criteria were within the control limit.

4. Matrix Spike (MS) Matrix Spike Duplicate (MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

DATA REVIEW REPORT

SDGs# FC277, FC392: The MS/MSD analysis was not performed on a sample for the analyte cyanide, and sulfide within these SDGs.

SDG# FC353: The MS/MSD analysis was not performed on a sample for the analyte cyanide within these SDGs.

SDG# FC229: The MS/MSD analysis performed on a sample OPCA-MW-3R for the analytes cyanide (SDG# L2260916), and sulfide (SDG# 410-104074-1).

SDG# FC320:

The MS analysis performed on a sample H78B-15 for the analyte cyanide (L2261565).

The MS/MSD analysis was not performed on a sample for the analyte sulfide (410-104630-1).

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample ID	Analyte	MS Recovery	MSD Recovery
<u>SDG# 410-104074-1 (FC229)</u> : OPCA-MW-8R	Sulfide	61%	61%

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all the sample results associated within the SDG# 410-104074-1 (FC229).

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

SDGs# FC277, FC320, FC392: The laboratory duplicate analysis was not performed on a sample for the analyte cyanide within these SDGs.

SDG# FC353: The laboratory duplicate analysis was not performed on a sample for the analyte cyanide within this SDG.

SDG# FC229 (L2260916): The laboratory duplicate analysis performed on a sample OPCA-MW-1RR for the analyte cyanide exhibited acceptable RPD value.

DATA REVIEW REPORT

SDG# 410-104074-1 (FC229): The laboratory duplicate analysis performed on a sample OPCA-MW-3R for the analyte sulfide exhibited acceptable RPD value.

SDG# FC320:

The laboratory duplicate analysis performed on a sample H78B-15 for the analyte cyanide (L2261565) exhibited acceptable RPD value.

The laboratory duplicate analysis was not performed on a sample for the analyte sulfide (410-104630-1).

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# FC277, FC320, FC353, FC392: A field duplicate samples were not collected within these SDGs.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analytes	Sample Result	Duplicate Result	RPD
<u>SDG# FC229</u> OPCA-MW-1RR / OPCA-DUP-1-20221031	Cyanide	U	U	AC
	Sulfide	0.90 J	0.71 J	AC

Note:

AC Acceptable

The results between the parent samples and field duplicates were acceptable.

6. Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPD within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: USEPA SW846 9014/9034	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
Initial calibration %RSD or correlation coefficient		X		X	
Continuing calibration %R		X		X	
Raw Data		X		X	
Transcription/calculation errors present	Not required for Tier II plus calibration				
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD – relative standard deviation

%R - percent recovery

RPD - relative percent difference

%D – difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Pruthvi Kumar C

SIGNATURE:



DATE: January 31, 2023

PEER REVIEW: Andrew Korycinski

DATE: January 31, 2023

CHAIN OF CUSTODY SAMPLE ANALYSIS DATA SHEETS



SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	OPCA-MW-1RR	Date Sampled:	10/31/22
Lab Sample ID:	FC229-1	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752595.D	10	11/14/22 13:16	KG	n/a	n/a	VI2747
Run #2 ^a	Y66206.D	10	11/22/22 16:28	JL	n/a	n/a	VY2748

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	250	100	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	250	140	ug/l	
107-02-8	Acrolein ^c	ND UJ	200	61	ug/l	
107-13-1	Acrylonitrile ^c	ND	100	21	ug/l	
107-05-1	Allyl Chloride	ND	20	2.6	ug/l	
71-43-2	Benzene	ND	10	3.1	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	10	2.4	ug/l	
75-25-2	Bromoform	ND	10	4.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	20	ug/l	
75-15-0	Carbon Disulfide	ND	20	5.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	10	3.6	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane	ND	20	6.7	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	50	21	ug/l	R
67-66-3	Chloroform	ND ^e UJ	10	3.0	ug/l	
126-99-8	Chloroprene	ND	50	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	2.8	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	100	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	3.4	ug/l	
107-06-2	1,2-Dichloroethane	ND ^e UJ	10	3.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	3.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.2	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	4.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.1	ug/l	
123-91-1	1,4-Dioxane	ND	2000	750	ug/l	R
100-41-4	Ethylbenzene	ND	10	3.6	ug/l	
97-63-2	Ethyl Methacrylate	ND	50	5.0	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-1RR	Date Sampled:	10/31/22
Lab Sample ID:	FC229-1	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol ^b	ND UJ	500	110	ug/l	
126-98-7	Methacrylonitrile	ND	200	50	ug/l	
74-83-9	Methyl Bromide	ND	50	20	ug/l	
74-87-3	Methyl Chloride ^f	ND UJ	20	5.0	ug/l	
74-88-4	Methyl Iodide ^f	ND	50	20	ug/l	
80-62-6	Methyl Methacrylate	ND	50	7.1	ug/l	
74-95-3	Methylene Bromide	ND	20	3.7	ug/l	
75-09-2	Methylene Chloride	32.8	50	20	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	10	ug/l	
107-12-0	Propionitrile	ND	200	50	ug/l	
100-42-5	Styrene	ND	10	2.2	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	2.8	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
127-18-4	Tetrachloroethylene	481	10	2.2	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	4.7	ug/l	
79-01-6	Trichloroethylene	11.2 ^e J	10	3.5	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane ^g	ND ^e UJ	20	6.3	ug/l	
108-05-4	Vinyl Acetate	ND ^e UJ	100	20	ug/l	
75-01-4	Vinyl Chloride ^b	ND	10	4.1	ug/l	
1330-20-7	Xylene (total)	ND ^e UJ	30	7.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	103%	79-125%
2037-26-5	Toluene-D8	97%	96%	85-112%
460-00-4	4-Bromofluorobenzene	98%	95%	83-118%

(a) Sample re-analyzed beyond hold time.

(b) Associated CCV outside control limits high, sample is ND.

(c) Result reported from HCl preserved sample and should be used for screening purposes only.

(d) Associated BS recovery outside control limits high, sample is ND.

(e) Result is from Run# 2

(f) Associated CCV recovery outside control limits high, sample is ND.

(g) No sample available for re-analysis.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID: OPCA-MW-1RR		
Lab Sample ID: FC229-1		Date Sampled: 10/31/22
Matrix: AQ - Ground Water		Date Received: 11/01/22
Method: SW846 8270E SW846 3510C		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085157.D	1	11/10/22 18:09	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-1RR	Date Sampled:	10/31/22
Lab Sample ID:	FC229-1	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-1RR	Date Sampled:	10/31/22
Lab Sample ID:	FC229-1	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	R
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-1RR		Date Sampled: 10/31/22
Lab Sample ID: FC229-1		Date Received: 11/01/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-67%
4165-62-2	Phenol-d5	17%		10-50%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	OPCA-MW-1RR		Date Sampled:	10/31/22
Lab Sample ID:	FC229-1F		Date Received:	11/01/22
Matrix:	AQ - Groundwater Filtered		Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C			
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80081.D	1	11/03/22 18:29	EM	11/02/22 07:58	OP93865	GMM1736
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		38-127%
2051-24-3	Decachlorobiphenyl	102%		25-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-1RR		Date Sampled: 10/31/22
Lab Sample ID: FC229-1F		Date Received: 11/01/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	27.9 J	200	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	0.80 J	5.0	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	ND	25	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc	ND	20	4.4	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19034
- (2) Instrument QC Batch: MA19040
- (3) Prep QC Batch: MP41449
- (4) Prep QC Batch: MP41472

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

4.2
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Report of Analysis

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Client Sample ID:	OPCA-MW-3R	Date Sampled:	10/31/22
Lab Sample ID:	FC229-2	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752596.D	1	11/14/22 13:39	KG	n/a	n/a	VI2747
Run #2 ^a	Y66191.D	1	11/21/22 15:46	JL	n/a	n/a	VY2747

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	25	14	ug/l	
107-02-8	Acrolein ^c	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND ^e UJ	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND ^e UJ	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-3R	Date Sampled:	10/31/22
Lab Sample ID:	FC229-2	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol ^b	ND UJ	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^f	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide ^f	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND ^e UJ	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND ^e UJ	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND ^e UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride ^b	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND ^e UJ	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	106%	79-125%
2037-26-5	Toluene-D8	98%	94%	85-112%
460-00-4	4-Bromofluorobenzene	98%	94%	83-118%

- (a) Sample re-analyzed beyond hold time.
- (b) Associated CCV outside control limits high, sample is ND.
- (c) Result reported from HCl preserved sample and should be used for screening purposes only.
- (d) Associated BS recovery outside control limits high, sample is ND.
- (e) Result is from Run# 2
- (f) Associated CCV recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	OPCA-MW-3R	Date Sampled:	10/31/22
Lab Sample ID:	FC229-2	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085158.D	1	11/10/22 18:36	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-3R	Date Sampled:	10/31/22
Lab Sample ID:	FC229-2	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-3R	Date Sampled:	10/31/22
Lab Sample ID:	FC229-2	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND UJ	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	R
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-3R Lab Sample ID: FC229-2 Matrix: AQ - Ground Water Method: SW846 8270E SW846 3510C Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	Date Sampled: 10/31/22 Date Received: 11/01/22 Percent Solids: n/a
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ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID: OPCA-MW-3R		Date Sampled: 10/31/22
Lab Sample ID: FC229-2F		Date Received: 11/01/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Method: SW846 8082A SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80084.D	1	11/03/22 19:04	EM	11/02/22 07:58	OP93865	GMM1736
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	240 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.42	0.17	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.42	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.42	0.21	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.42	0.17	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.42	0.17	ug/l	
11097-69-1	Aroclor 1254	ND	0.42	0.17	ug/l	
11096-82-5	Aroclor 1260	ND	0.42	0.17	ug/l	
1336-36-3	Total PCBs	ND UJ	0.42	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		38-127%
2051-24-3	Decachlorobiphenyl	101%		25-137%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-3R		Date Sampled: 10/31/22
Lab Sample ID: FC229-2F		Date Received: 11/01/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	86.5 J	200	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	0.80 J	50	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	2.2 J	25	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	3.8 J	40	0.40	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	5.0 J	10	1.4	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc	ND	20	4.4	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19034
- (2) Instrument QC Batch: MA19040
- (3) Prep QC Batch: MP41449
- (4) Prep QC Batch: MP41472

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

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SGS North America Inc.

Report of Analysis

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Client Sample ID:	OPCA-DUP-1-20221031		Date Sampled:	10/31/22
Lab Sample ID:	FC229-3		Date Received:	11/01/22
Matrix:	AQ - Ground Water		Percent Solids:	n/a
Method:	SW846 8260D			
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752597.D	10	11/14/22 14:03	KG	n/a	n/a	VI2747
Run #2 ^a	Y66207.D	10	11/22/22 16:52	JL	n/a	n/a	VY2748

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	250	100	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	250	140	ug/l	
107-02-8	Acrolein ^c	ND UJ	200	61	ug/l	
107-13-1	Acrylonitrile ^c	ND	100	21	ug/l	
107-05-1	Allyl Chloride	ND	20	2.6	ug/l	
71-43-2	Benzene	ND	10	3.1	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	10	2.4	ug/l	
75-25-2	Bromoform	ND	10	4.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	20	ug/l	
75-15-0	Carbon Disulfide	ND	20	5.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	10	3.6	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane	ND	20	6.7	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	50	21	ug/l	R
67-66-3	Chloroform	ND ^e UJ	10	3.0	ug/l	
126-99-8	Chloroprene	ND	50	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	10	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	2.8	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	100	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	3.4	ug/l	
107-06-2	1,2-Dichloroethane	ND ^e UJ	10	3.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	3.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.2	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	4.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.1	ug/l	
123-91-1	1,4-Dioxane	ND	2000	750	ug/l	R
100-41-4	Ethylbenzene	ND	10	3.6	ug/l	
97-63-2	Ethyl Methacrylate	ND	50	5.0	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 4

Client Sample ID:	OPCA-DUP-1-20221031		Date Sampled:	10/31/22
Lab Sample ID:	FC229-3		Date Received:	11/01/22
Matrix:	AQ - Ground Water		Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C			
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA			

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085159.D	1	11/10/22 19:02	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-DUP-1-20221031	Date Sampled:	10/31/22
Lab Sample ID:	FC229-3	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-DUP-1-20221031	Date Sampled:	10/31/22
Lab Sample ID:	FC229-3	Date Received:	11/01/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	R
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-DUP-1-20221031		Date Sampled: 10/31/22
Lab Sample ID: FC229-3		Date Received: 11/01/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-67%
4165-62-2	Phenol-d5	17%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	OPCA-DUP-1-20221031		Date Sampled:	10/31/22
Lab Sample ID:	FC229-3F		Date Received:	11/01/22
Matrix:	AQ - Groundwater Filtered		Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C			
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80085.D	1	11/03/22 19:16	EM	11/02/22 07:58	OP93865	GMM1736
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		38-127%
2051-24-3	Decachlorobiphenyl	102%		25-137%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-DUP-1-20221031 Lab Sample ID: FC229-3F Matrix: AQ - Groundwater Filtered Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	Date Sampled: 10/31/22 Date Received: 11/01/22 Percent Solids: n/a
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Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	27.7 J	200	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	0.80 J	5.0	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	1.7 J	25	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	0.091 J	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc	ND	20	4.4	ug/l	1	11/07/22	11/08/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19034
- (2) Instrument QC Batch: MA19040
- (3) Prep QC Batch: MP41449
- (4) Prep QC Batch: MP41472

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

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SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIPBLANK-OPCA-1-103122	Date Sampled:	10/31/22
Lab Sample ID:	FC229-4	Date Received:	11/01/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752591.D	1	11/14/22 11:41	KG	n/a	n/a	VI2747
Run #2 ^a	Y66183.D	1	11/21/22 12:31	JL	n/a	n/a	VY2747

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	25	14	ug/l	
107-02-8	Acrolein ^c	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND ^e UJ	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND ^e UJ	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIPBLANK-OPCA-1-103122	Date Sampled:	10/31/22
Lab Sample ID:	FC229-4	Date Received:	11/01/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol ^b	ND UJ	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^f	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide ^f	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND ^e UJ	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND ^e UJ	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND ^e UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride ^b	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND ^e UJ	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	103%	79-125%
2037-26-5	Toluene-D8	98%	96%	85-112%
460-00-4	4-Bromofluorobenzene	98%	93%	83-118%

(a) Sample re-analyzed beyond hold time.

(b) Associated CCV outside control limits high, sample is ND.

(c) Result reported from HCl preserved sample and should be used for screening purposes only.

(d) Associated BS recovery outside control limits high, sample is ND.

(e) Result is from Run# 2

(f) Associated CCV recovery outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Sample ID: OPCA-MW-1RR

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7267	Date Received:	05-Nov-2022
Project ID:	FC229X	Weight/Volume:	1.04 L	Lab Sample ID:	B7267_19641_DF_001-RJ	Date Extracted:	16-Nov-2022
Date Collected:	31-Oct-2022	pH:	7	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	17:24:25
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	4.27			ES 2378-TCDD	95.2	
12378-PeCDD	ND	2.1			ES 12378-PeCDD	111	
123478-HxCDD	ND	2.83			ES 123478-HxCDD	91.3	
123678-HxCDD	ND	3.06			ES 123678-HxCDD	82.2	
123789-HxCDD	ND	2.88			ES 123789-HxCDD	88.8	
1234678-HpCDD	ND	2.38			ES 1234678-HpCDD	102	
OCDD	ND	4.31			ES OCDD	78.6	
2378-TCDF	ND	3.25			ES 2378-TCDF	96.1	
12378-PeCDF	ND	2.01			ES 12378-PeCDF	111	
23478-PeCDF	ND	1.97			ES 23478-PeCDF	107	
123478-HxCDF	ND	1.74			ES 123478-HxCDF	82.4	
123678-HxCDF	ND	1.55			ES 123678-HxCDF	79.6	
234678-HxCDF	ND	1.81			ES 234678-HxCDF	83.2	
123789-HxCDF	ND	2			ES 123789-HxCDF	97.5	
1234678-HpCDF	2.68			J	ES 1234678-HpCDF	94	
1234789-HpCDF	ND	2.01			ES 1234789-HpCDF	104	
OCDF	ND	3.52			ES OCDF	81.2	
Totals					Standard	CS Recoveries	
Total TCDD	ND	4.27	ND		CS 37CI-2378-TCDD	94.8	
Total PeCDD	ND	2.1	ND		CS 12347-PeCDD	118	
Total HxCDD	ND	2.92	ND		CS 12346-PeCDF	111	
Total HpCDD	ND	2.38	ND		CS 123469-HxCDF	84.9	
					CS 1234689-HpCDF	100	
Total TCDF	ND	3.25	ND				
Total PeCDF	ND	1.99	ND				
Total HxCDF	ND	1.77	ND				
Total HpCDF	2.68		2.68				
Total PCDD/Fs	2.68		2.68				
ITEF TEQs							
TEQ: ND=0	0.0268		0.0268				
TEQ: ND=DL/2	4.21	4.19	4.21				
TEQ: ND=DL	8.4	8.39	8.4				



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Checkcode: 701-881-TDP


SGS North America - DF v0.99

Report Created: 05-Dec-2022 09:51 Analyst:

Sample ID: OPCA-MW-1RR **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7267_19641_DF_001-RJ
Client Project ID:	FC229X	Weight/Volume:	1.04 L	QC Batch No.:	19641
Date Collected:	31-Oct-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	05-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 17:24
Lab Project No:	B7267	Units:	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(4.27)		4.27	(4.27)	(4.27)	(4.27)
12378-PeCDD	(2.1)		2.1	(1.05)	(2.1)	(2.1)
123478-HxCDD	(2.83)		2.83	(0.283)	(0.283)	(0.283)
123678-HxCDD	(3.06)		3.06	(0.306)	(0.306)	(0.306)
123789-HxCDD	(2.88)		2.88	(0.288)	(0.288)	(0.288)
1234678-HpCDD	(2.38)		2.38	(0.0238)	(0.0238)	(0.0238)
OCDD	(4.31)		4.31	(0.00431)	(0.000431)	(0.00129)
2378-TCDF	(3.25)		3.25	(0.325)	(0.325)	(0.325)
12378-PeCDF	(2.01)		2.01	(0.101)	(0.101)	(0.0604)
23478-PeCDF	(1.97)		1.97	(0.984)	(0.984)	(0.59)
123478-HxCDF	(1.74)		1.74	(0.174)	(0.174)	(0.174)
123678-HxCDF	(1.55)		1.55	(0.155)	(0.155)	(0.155)
234678-HxCDF	(1.81)		1.81	(0.181)	(0.181)	(0.181)
123789-HxCDF	(2)		2	(0.2)	(0.2)	(0.2)
1234678-HpCDF	2.68	J	1.91	0.0268	0.0268	0.0268
1234789-HpCDF	(2.01)		2.01	(0.0201)	(0.0201)	(0.0201)
OCDF	(3.52)		3.52	(0.00352)	(0.000352)	(0.00106)

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	EMPC = 0, ND = 0	0.0268	0.0268	0.0268
	EMPC = 0, ND = DL / 2	4.21	4.73	4.52
	EMPC = 0, ND = DL	8.4	9.44	9.01
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0.0268	0.0268	0.0268
	EMPC = EMPC, ND = DL / 2	4.21	4.73	4.52
	EMPC = EMPC, ND = DL	8.4	9.44	9.01
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 701-881-TDP

SGS North America - DF v0.99

Sample ID: OPCA-MW-3R

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7267	Date Received:	05-Nov-2022
Project ID:	FC229X	Weight/Volume:	1.04 L	Lab Sample ID:	B7267_19641_DF_002-RJ	Date Extracted:	16-Nov-2022
Date Collected:	31-Oct-2022	pH:	6	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	18:12:00
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	4.8			ES 2378-TCDD	96.6	
12378-PeCDD	ND	2.26			ES 12378-PeCDD	115	
123478-HxCDD	ND	2.07			ES 123478-HxCDD	84	
123678-HxCDD	ND	2.36			ES 123678-HxCDD	77.2	
123789-HxCDD	ND	2.02			ES 123789-HxCDD	83.7	
1234678-HpCDD	ND	1.95			ES 1234678-HpCDD	99.6	
OCDD	EMPC		5.24 JNX	J	ES OCDD	74.7	
2378-TCDF	ND	2.57			ES 2378-TCDF	94.6	
12378-PeCDF	ND	2.11			ES 12378-PeCDF	110	
23478-PeCDF	ND	2.19			ES 23478-PeCDF	106	
123478-HxCDF	ND	2			ES 123478-HxCDF	76.9	
123678-HxCDF	ND	1.79			ES 123678-HxCDF	72.7	
234678-HxCDF	ND	1.87			ES 234678-HxCDF	77.2	
123789-HxCDF	ND	2.23			ES 123789-HxCDF	90.3	
1234678-HpCDF	ND	1.44			ES 1234678-HpCDF	87	
1234789-HpCDF	ND	1.42			ES 1234789-HpCDF	98.7	
OCDF	ND	3.04			ES OCDF	74	
Totals					Standard	CS Recoveries	
Total TCDD	ND	4.8	ND		CS 37CI-2378-TCDD	97.4	
Total PeCDD	ND	2.26	ND		CS 12347-PeCDD	121	
Total HxCDD	ND	2.14	ND		CS 12346-PeCDF	107	
Total HpCDD	ND	1.95	ND		CS 123469-HxCDF	78	
					CS 1234689-HpCDF	94	
Total TCDF	ND	2.57	ND				
Total PeCDF	ND	2.15	ND				
Total HxCDF	ND	1.97	ND				
Total HpCDF	ND	1.43	ND				
Total PCDD/Fs	ND		5.24				
ITEF TEQs							
TEQ: ND=0	0		0.00524				
TEQ: ND=DL/2	4.44	4.44	4.44				
TEQ: ND=DL	8.87	8.87	8.88				



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SGS North America - DF v0.99

Report Created: 05-Dec-2022 09:51 Analyst:

Sample ID: OPCA-MW-3R **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7267_19641_DF_002-RJ
Client Project ID:	FC229X	Weight/Volume:	1.04 L	QC Batch No.:	19641
Date Collected:	31-Oct-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	05-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 18:12
Lab Project No:	B7267	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(4.8)		4.8	(4.8)	(4.8)	(4.8)
12378-PeCDD	(2.26)		2.26	(1.13)	(2.26)	(2.26)
123478-HxCDD	(2.07)		2.07	(0.207)	(0.207)	(0.207)
123678-HxCDD	(2.36)		2.36	(0.236)	(0.236)	(0.236)
123789-HxCDD	(2.02)		2.02	(0.202)	(0.202)	(0.202)
1234678-HpCDD	(1.95)		1.95	(0.0195)	(0.0195)	(0.0195)
OCDD	[5.24]	J	3.76	[0.00524]	[0.000524]	[0.00157]
2378-TCDF	(2.57)		2.57	(0.257)	(0.257)	(0.257)
12378-PeCDF	(2.11)		2.11	(0.105)	(0.105)	(0.0632)
23478-PeCDF	(2.19)		2.19	(1.09)	(1.09)	(0.657)
123478-HxCDF	(2)		2	(0.2)	(0.2)	(0.2)
123678-HxCDF	(1.79)		1.79	(0.179)	(0.179)	(0.179)
234678-HxCDF	(1.87)		1.87	(0.187)	(0.187)	(0.187)
123789-HxCDF	(2.23)		2.23	(0.223)	(0.223)	(0.223)
1234678-HpCDF	(1.44)		1.44	(0.0144)	(0.0144)	(0.0144)
1234789-HpCDF	(1.42)		1.42	(0.0142)	(0.0142)	(0.0142)
OCDF	(3.04)		3.04	(0.00304)	(0.000304)	(0.000913)

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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	4.44	5	4.76
	EMPC = 0, ND = DL	8.87	10	9.52
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0.00524	0.000524	0.00157
	EMPC = EMPC, ND = DL / 2	4.44	5	4.76
	EMPC = EMPC, ND = DL	8.88	10	9.52
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 003-476-WJT

SGS North America - DF v0.99

Sample ID: OPCA-DUP-1-20221031

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7267	Date Received:	05-Nov-2022
Project ID:	FC229X	Weight/Volume:	1.05 L	Lab Sample ID:	B7267_19641_DF_003-RJ	Date Extracted:	16-Nov-2022
Date Collected:	31-Oct-2022	pH:	7	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	20:34:44
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	4.95			ES 2378-TCDD	93.6	
12378-PeCDD	ND	2.36			ES 12378-PeCDD	109	
123478-HxCDD	ND	3.12			ES 123478-HxCDD	87.6	
123678-HxCDD	ND	3			ES 123678-HxCDD	81.2	
123789-HxCDD	ND	3.46			ES 123789-HxCDD	85.6	
1234678-HpCDD	ND	2.36			ES 1234678-HpCDD	98.7	
OCDD	ND	4.5			ES OCDD	80.5	
2378-TCDF	ND	2.63			ES 2378-TCDF	96.3	
12378-PeCDF	ND	2.77			ES 12378-PeCDF	108	
23478-PeCDF	ND	2.66			ES 23478-PeCDF	107	
123478-HxCDF	ND	2.16			ES 123478-HxCDF	82	
123678-HxCDF	ND	2.25			ES 123678-HxCDF	76.6	
234678-HxCDF	ND	2.17			ES 234678-HxCDF	82.1	
123789-HxCDF	ND	2.45			ES 123789-HxCDF	93.7	
1234678-HpCDF	ND	1.35			ES 1234678-HpCDF	91.8	
1234789-HpCDF	ND	1.57			ES 1234789-HpCDF	103	
OCDF	ND	2.95			ES OCDF	78.8	
Totals					Standard	CS Recoveries	
Total TCDD	ND	4.95	ND		CS 37CI-2378-TCDD	96	
Total PeCDD	ND	2.36	ND		CS 12347-PeCDD	123	
Total HxCDD	ND	3.18	ND		CS 12346-PeCDF	113	
Total HpCDD	ND	2.36	ND		CS 123469-HxCDF	86.1	
					CS 1234689-HpCDF	103	
Total TCDF	ND	2.63	ND				
Total PeCDF	ND	2.71	ND				
Total HxCDF	ND	2.26	ND				
Total HpCDF	ND	1.45	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	4.89	4.89	4.89				
TEQ: ND=DL	9.78	9.78	9.78				



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SGS North America - DF v0.99

Report Created: 05-Dec-2022 09:51 Analyst:


Sample ID: OPCA-DUP-1-20221031

TEQ Summary

Method 8290A

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7267_19641_DF_003-RJ
Client Project ID:	FC229X	Weight/Volume:	1.05 L	QC Batch No.:	19641
Date Collected:	31-Oct-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	05-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 20:34
Lab Project No:	B7267	Units:	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(4.95)		4.95	(4.95)	(4.95)	(4.95)
12378-PeCDD	(2.36)		2.36	(1.18)	(2.36)	(2.36)
123478-HxCDD	(3.12)		3.12	(0.312)	(0.312)	(0.312)
123678-HxCDD	(3)		3	(0.3)	(0.3)	(0.3)
123789-HxCDD	(3.46)		3.46	(0.346)	(0.346)	(0.346)
1234678-HpCDD	(2.36)		2.36	(0.0236)	(0.0236)	(0.0236)
OCDD	(4.5)		4.5	(0.0045)	(0.00045)	(0.00135)
2378-TCDF	(2.63)		2.63	(0.263)	(0.263)	(0.263)
12378-PeCDF	(2.77)		2.77	(0.138)	(0.138)	(0.083)
23478-PeCDF	(2.66)		2.66	(1.33)	(1.33)	(0.798)
123478-HxCDF	(2.16)		2.16	(0.216)	(0.216)	(0.216)
123678-HxCDF	(2.25)		2.25	(0.225)	(0.225)	(0.225)
234678-HxCDF	(2.17)		2.17	(0.217)	(0.217)	(0.217)
123789-HxCDF	(2.45)		2.45	(0.245)	(0.245)	(0.245)
1234678-HpCDF	(1.35)		1.35	(0.0135)	(0.0135)	(0.0135)
1234789-HpCDF	(1.57)		1.57	(0.0157)	(0.0157)	(0.0157)
OCDF	(2.95)		2.95	(0.00295)	(0.000295)	(0.000884)

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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	4.89	5.48	5.19
	EMPC = 0, ND = DL	9.78	11	10.4
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	4.89	5.48	5.19
	EMPC = EMPC, ND = DL	9.78	11	10.4
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 829-986-BYL

SGS North America - DF v0.99

Client Sample Results

Client: SGS North America Inc
 Project/Site: GE Pittsfield - OPCA

Job ID: 410-104074-1

Client Sample ID: OPCA-MW-1RR

Lab Sample ID: 410-104074-1

Date Collected: 10/31/22 13:35

Matrix: Water

Date Received: 11/02/22 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	0.90	J	2.0	0.70	mg/L			11/07/22 10:29	1

Client Sample ID: OPCA-MW-3R

Lab Sample ID: 410-104074-2

Date Collected: 10/31/22 13:15

Matrix: Water

Date Received: 11/02/22 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	ND	UJ	2.0	0.70	mg/L			11/07/22 10:29	1

Client Sample ID: OPCA-DUP-1-20221031

Lab Sample ID: 410-104074-3

Date Collected: 10/31/22 00:00

Matrix: Water

Date Received: 11/02/22 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	0.71	J	2.0	0.70	mg/L			11/07/22 10:29	1

Project Name: GE PITTSFIELD-OPCA
Project Number: FC229X

Lab Number: L2260916
Report Date: 11/14/22

SAMPLE RESULTS

Lab ID: L2260916-01
 Client ID: OPCA-MW-1RR
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 10/31/22 13:35
 Date Received: 10/31/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/04/22 07:50	11/04/22 12:41	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC229X

Lab Number: L2260916
Report Date: 11/14/22

SAMPLE RESULTS

Lab ID: L2260916-02
 Client ID: OPCA-MW-3R
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 10/31/22 13:15
 Date Received: 10/31/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/04/22 07:50	11/04/22 12:33	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC229X

Lab Number: L2260916
Report Date: 11/14/22

SAMPLE RESULTS

Lab ID: L2260916-03
 Client ID: OPCA-DUP-1-20221031
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 10/31/22 00:00
 Date Received: 10/31/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/04/22 07:50	11/04/22 12:43	64,9014(M)	JER



Client / Reporting Information				Project Information				SGS Accutest Quote #												SKIFF #							
Company Name: Arcadis				Project Name: GE Pittsfield - OPCA				Analytical Information VOCs STAND (EPA method 8260) (See attached Notes to Lab) Metals (Dissolved) (EPA method 8082) SVOCs STAND (See attached Notes to Lab) (EPA method 8270) Sulfide* (EPA method 9034) PAC Cyanide (See attached Notes to Lab) Filler by Lab (EPA method 9014) Metals (Dissolved) (EPA method 6010B, 7000A, and 7470A) Dioxin/Furans (EPA method 8299) 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8286) Lead (Dissolved)* (EPA method 6010B/6020) NATURAL ATTEN 2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)												Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe							
Address: One Lincoln Center 110 W Fayette St, Suite 300				Street: 159 Plastics Ave																							
City: Syracuse		State: NY		Zip: 13202		City: Pittsfield																State: MA					
Project Contact: Chris Kassel Penelope Rabasco Email: Chris.Kassel@arcadis.com Penelope.rabasco@arcadis.com				Project # 30120721.4007																							
Phone #: 413-464-2159 (Rabasco) 315-258-5386 (Kassel)				Fax #																							
Sampler(s) Name(s) (Printed)				Client Purchase Order #																							
Sampler 1: Penny Rabasco Sampler 2: Parker Eversoll																											
SGS Accutest Sample #	Field ID / Point of Collection	COLLECTION		CONTAINER INFORMATION												LAB USE ONLY											
		DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	PCB	PCB	MSH	HNO3	H2SO4	HAOH/ZNAC	DI WATER		MEOH										
1	78-6R	11/1/2022	12:30	JRD	GW	10		X	X									X	X	X	X	X	X				
2	OPCA-MW-6	11/1/2022	13:10	PTR	GW	11		X	X									X	X	X	X	X	X				
3	TripBlank-OPCA-2-110122	11/1/2022	---	---	WW	2																					
												INITIAL ASSESSMENT <i>SM</i>															
												LABEL VERIFICATION <i>CM</i>															
Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks																			
X 10 Day (Business) Approved By: / Date: _____ 7 Day _____ 5 Day _____ 3 Day RUSH _____ 2 Day RUSH _____ 1 Day RUSH _____ Other _____ Rush T/A Data Available VIA Email or Lablink				<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S CORE EDDS, Refer to Contract for details.				Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																											
Relinquished by Sampler/Affiliation		Date Time:		Received By/Affiliation				Relinquished By/Affiliation		Date Time:		Received By/Affiliation															
1 <i>Penny Rabasco</i>		11/22/2022		2 <i>Parker Eversoll</i>				3		11/22/22		4															
5				6				7				8															
Lab Use Only : Cooler Temperature (s) Celsius: <u>3.2</u> <i>CM</i>																											

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: 78-6R		Date Sampled: 11/01/22
Lab Sample ID: FC277-1		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752603.D	1	11/14/22 16:24	KG	n/a	n/a	VI2747
Run #2 ^a	1P95698.D	1	11/22/22 14:00	CF	n/a	n/a	V1P3636

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	25	14	ug/l	
107-02-8	Acrolein ^c	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform ^e	ND UJ	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane ^e	ND UJ	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-6R		Date Sampled: 11/01/22
Lab Sample ID: FC277-1		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

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VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol ^b	ND UJ	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^f	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide ^f	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene ^e	ND UJ	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane ^e	ND UJ	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate ^g	ND UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride ^b	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total) ^e	ND UJ	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	103%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	108%	83-118%

- (a) Sample re-analyzed beyond hold time.
- (b) Associated CCV outside control limits high, sample is ND.
- (c) Result reported from HCl preserved sample and should be used for screening purposes only.
- (d) Associated BS recovery outside control limits high, sample is ND.
- (e) Associated BS recovery outside control limits low. Confirmed ND by re-analysis.
- (f) Associated CCV recovery outside control limits high, sample is ND.
- (g) Associated Initial Calibration invalid. Confirmed ND by re-analysis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID: 78-6R		Date Sampled: 11/01/22
Lab Sample ID: FC277-1		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085160.D	1	11/10/22 19:29	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.59	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.63	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.84	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.0	0.83	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.74	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.56	ug/l	
	3&4-Methylphenol	ND	5.0	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.85	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol ^a	ND	5.0	0.50	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.97	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.75	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.63	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.64	ug/l	
98-86-2	Acetophenone	ND	5.0	0.81	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.0	0.75	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	5.0	0.80	ug/l	
62-53-3	Aniline	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	0.80	ug/l	
140-57-8	Aramite ^a	ND UJ	10	2.0	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.76	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.78	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.78	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.82	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.61	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.85	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-6R		Date Sampled: 11/01/22
Lab Sample ID: FC277-1		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.63	ug/l	
510-15-6	Chlorobenzilate	ND	5.0	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.81	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.73	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	5.0	0.76	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.54	ug/l	
218-01-9	Chrysene	ND	5.0	0.85	ug/l	
2303-16-4	Diallate ^a	ND UJ	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.80	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.60	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.64	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.0	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	5.0	1.0	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	5.0	1.0	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	10	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	5.0	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	1.0	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.0	0.91	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.81	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.71	ug/l	
122-39-4	Diphenylamine	ND	5.0	0.81	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.76	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.55	ug/l	
86-73-7	Fluorene	ND	5.0	0.70	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.69	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.50	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	5.0	1.8	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	100	50	ug/l	R
1888-71-7	Hexachloropropene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.71	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	78-6R	Date Sampled:	11/01/22
Lab Sample ID:	FC277-1	Date Received:	11/02/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	5.0	1.0	ug/l	
78-59-1	Isophorone	ND	5.0	0.78	ug/l	
120-58-1	Isosafrole ^a	ND UJ	5.0	2.4	ug/l	
91-80-5	Methapyrilene ^a	ND	20	4.0	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	5.0	1.0	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	5.0	0.77	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.60	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.0	0.72	ug/l	
134-32-7	1-Naphthylamine ^a	ND	5.0	1.2	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	5.0	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.88	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.93	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.0	1.3	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	5.0	0.87	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	0.50	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	5.0	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.67	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.81	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.0	0.98	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	5.0	0.88	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	5.0	1.2	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	5.0	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	5.0	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	5.0	1.0	ug/l	
608-93-5	Pentachlorobenzene	ND	5.0	3.1	ug/l	
76-01-7	Pentachloroethane	ND	5.0	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	5.0	1.6	ug/l	
62-44-2	Phenacetin	ND	5.0	1.3	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.86	ug/l	
106-50-3	p-Phenylenediamine	ND	50	10	ug/l	
109-06-8	2-Picoline ^a	ND	5.0	1.0	ug/l	
23950-58-5	Pronamide	ND	5.0	1.3	ug/l	
129-00-0	Pyrene	ND	5.0	0.68	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
94-59-7	Safrole ^a	ND	5.0	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.0	0.50	ug/l	
297-97-2	Thionazin	ND	5.0	1.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-6R	Date Sampled: 11/01/22
Lab Sample ID: FC277-1	Date Received: 11/02/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270E SW846 3510C	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	5.0	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.1	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.0	0.99	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID: 78-6R		
Lab Sample ID: FC277-1F		Date Sampled: 11/01/22
Matrix: AQ - Groundwater Filtered		Date Received: 11/02/22
Method: SW846 8082A SW846 3510C		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80164.D	1	11/07/22 13:52	EM	11/04/22 08:28	OP93917	GMM1738
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.40	0.20	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.20	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.40	0.16	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.40	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.16	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.16	ug/l	
1336-36-3	Total PCBs	ND UJ	0.40	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		38-127%
2051-24-3	Decachlorobiphenyl	92%		25-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-6R	Date Sampled: 11/01/22
Lab Sample ID: FC277-1F	Date Received: 11/02/22
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	1.1 J	6.0	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	65.4 J	200	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	0.40 J	50	0.20	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	ND	25	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	1.1 J	10	0.70	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc ^a	ND	20	4.4	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19038
- (2) Instrument QC Batch: MA19040
- (3) Prep QC Batch: MP41458
- (4) Prep QC Batch: MP41475

(a) Analyte detected in the associated filter blank.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

4.2
4

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	OPCA-MW-6	Date Sampled:	11/01/22
Lab Sample ID:	FC277-2	Date Received:	11/02/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752604.D	1	11/14/22 16:47	KG	n/a	n/a	VI2747
Run #2 ^a	1P95700.D	1	11/22/22 14:35	CF	n/a	n/a	VIP3636

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	25	14	ug/l	
107-02-8	Acrolein ^c	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform ^e	ND UJ	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane ^e	ND UJ	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-6	Date Sampled:	11/01/22
Lab Sample ID:	FC277-2	Date Received:	11/02/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol ^b	ND UJ	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^f	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide ^f	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene ^e	ND UJ	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane ^e	ND UJ	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate ^g	ND UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride ^b	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total) ^e	ND UJ	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	104%	79-125%
2037-26-5	Toluene-D8	99%	102%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	83-118%

(a) Sample re-analyzed beyond hold time.

(b) Associated CCV outside control limits high, sample is ND.

(c) Result reported from HCl preserved sample and should be used for screening purposes only.

(d) Associated BS recovery outside control limits high, sample is ND.

(e) Associated BS recovery outside control limits low. Confirmed ND by re-analysis.

(f) Associated CCV recovery outside control limits high, sample is ND.

(g) Associated Initial Calibration invalid. Confirmed ND by re-analysis.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID: OPCA-MW-6		Date Sampled: 11/01/22
Lab Sample ID: FC277-2		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085161.D	1	11/10/22 19:55	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND JJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND JJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-6	Date Sampled:	11/01/22
Lab Sample ID:	FC277-2	Date Received:	11/02/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-6		Date Sampled: 11/01/22
Lab Sample ID: FC277-2		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-6		Date Sampled: 11/01/22
Lab Sample ID: FC277-2		Date Received: 11/02/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	17%		10-50%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3
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SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID: OPCA-MW-6		
Lab Sample ID: FC277-2F		Date Sampled: 11/01/22
Matrix: AQ - Groundwater Filtered		Date Received: 11/02/22
Method: SW846 8082A SW846 3510C		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80165.D	1	11/07/22 14:03	EM	11/04/22 08:28	OP93917	GMM1738
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.40	0.20	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.20	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.40	0.16	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.40	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.16	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.16	ug/l	
1336-36-3	Total PCBs	ND UJ	0.40	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		38-127%
2051-24-3	Decachlorobiphenyl	94%		25-137%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-6		Date Sampled: 11/01/22
Lab Sample ID: FC277-2F		Date Received: 11/02/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	1.6 J	6.0	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	159 J	200	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	ND	25	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead ^a	10 U	15	10	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc ^b	ND	20	4.4	ug/l	1	11/09/22	11/11/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19038
- (2) Instrument QC Batch: MA19040
- (3) Prep QC Batch: MP41458
- (4) Prep QC Batch: MP41475

- (a) Elevated reporting limit(s) due to matrix interference. Manually elevated.
- (b) Analyte detected in the associated filter blank.

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

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SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIPBLANK-OPCA-1-110122	Date Sampled:	11/01/22
Lab Sample ID:	FC277-3	Date Received:	11/02/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I752593.D	1	11/14/22 12:28	KG	n/a	n/a	VI2747
Run #2 ^a	1P95694.D	1	11/22/22 12:56	CF	n/a	n/a	VIP3636

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND UJ	25	14	ug/l	
107-02-8	Acrolein ^c	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^d	ND UJ	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform ^e	ND UJ	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane ^e	ND UJ	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIPBLANK-OPCA-1-110122	Date Sampled:	11/01/22
Lab Sample ID:	FC277-3	Date Received:	11/02/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol ^b	ND UJ	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^f	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide ^f	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene ^e	ND UJ	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane ^e	ND UJ	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate ^g	ND UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride ^b	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total) ^e	ND UJ	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	101%	79-125%
2037-26-5	Toluene-D8	98%	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	83-118%

- (a) Sample vial(s) contained bubbles greater than 6mm. Sample re-analyzed beyond hold time.
(b) Associated CCV outside control limits high, sample is ND.
(c) Result reported from HCl preserved sample and should be used for screening purposes only.
(d) Associated BS recovery outside control limits high, sample is ND.
(e) Associated BS recovery outside control limits low. Confirmed ND by re-analysis.
(f) Associated CCV recovery outside control limits high, sample is ND.
(g) Associated Initial Calibration invalid. Confirmed ND by re-analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

SGS North America Inc. - Orlando
 4405 Vineland Road, Suite C-15 Orlando, FL 32811
 TEL. 407-425-6700 FAX: 407-425-0707
 www.sgs.com/ehsusa

B7266

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # FC277X

Client / Reporting Information		Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name: SGS North America Inc.		Project Name: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA										B8290TODF.										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address: 4405 Vineland Rd, Suite C-15		Street		Billing Information (If different from Report to)																		
City State Zip Orlando FL 32811		City State MA		Company Name																		
Project Contact E-mail ariel.hartney@sgs.com		Project #		Street Address																		
Phone # Fax # 407-425-6700		Client Purchase Order #		City State Zip																		
Sampler(s) Name(s) Phone JDPR		Project Manager		Attention:																		
SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection			Matrix	# of bottles	Number of preserved Bottles								LAB USE ONLY						
			Date	Time	Sampled by			HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEQH	ENCORE							
1X	78-6R		11/1/22	12:30:00 PM	JDPR	AQ													X			
2X	OPCA-MW-6		11/1/22	1:10:00 PM	JDPR	AQ													X			

Turnaround Time (Business days)		Data Deliverable Information										Comments / Special Instructions									
<input type="checkbox"/> Standard 10 Day (business) <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> other Due 11/16/2022		Approved By (SGS PM): / Date:		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> State Forms <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> EDD Format <input type="checkbox"/> REDT1 (Level 3) <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> FULT1 (Level 4) <input type="checkbox"/> <input type="checkbox"/> Commercial "C" <input type="checkbox"/>								Send to SGS Wilmington									
Emergency & Rush T/A data available via Lablink Approval needed for RUSH/Emergency TAT		Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data								http://www.sgs.com/en/terms-and-conditions											

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: <i>[Signature]</i>	Date Time: 11/17/22	Received By: <i>[Signature]</i>	Date Time: 11/05 11:05 AM	Relinquished By:	Date Time:	Received By:	Date Time:
Relinquished by Sampler:	Date Time: <i>[Signature]</i>	Received By:	Date Time: 11/05 11:05 AM	Relinquished By:	Date Time:	Received By:	Date Time:

SGS
 45 of 1609
 FC277

Sample ID: 78-6R

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7266	Date Received:	05-Nov-2022
Project ID:	FC277X	Weight/Volume:	1.05 L	Lab Sample ID:	B7266_19641_DF_001	Date Extracted:	16-Nov-2022
Date Collected:	01-Nov-2022	pH:	6	QC Batch No:	19641	Date Analyzed:	30-Nov-2022
		Split:	-	Dilution:	-	Time Analyzed:	14:11:19
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	4.35			ES 2378-TCDD	96.3	
12378-PeCDD	ND	3.45			ES 12378-PeCDD	112	
123478-HxCDD	ND	2.77			ES 123478-HxCDD	92.5	
123678-HxCDD	ND	2.94			ES 123678-HxCDD	86.8	
123789-HxCDD	6.68			J	ES 123789-HxCDD	92.9	
1234678-HpCDD	EMPC		5.92 JNX	J	ES 1234678-HpCDD	108	
OCDD	EMPC		15.4 JNX	J	ES OCDD	84	
2378-TCDF	ND	2.48			ES 2378-TCDF	102	
12378-PeCDF	ND	2.86			ES 12378-PeCDF	106	
23478-PeCDF	ND	2.94			ES 23478-PeCDF	104	
123478-HxCDF	EMPC		3.91 JNX	J	ES 123478-HxCDF	92.3	
123678-HxCDF	4.08			J	ES 123678-HxCDF	83.6	
234678-HxCDF	5.71			J	ES 234678-HxCDF	92.9	
123789-HxCDF	EMPC		5.28 JNX	J	ES 123789-HxCDF	103	
1234678-HpCDF	EMPC		3.86 JNX	J	ES 1234678-HpCDF	101	
1234789-HpCDF	5.98			J	ES 1234789-HpCDF	111	
OCDF	EMPC		10.7 JNX	J	ES OCDF	84.1	
Totals					Standard	CS Recoveries	
Total TCDD	ND	4.35	ND		CS 37CI-2378-TCDD	96.4	
Total PeCDD	ND	3.45	ND		CS 12347-PeCDD	121	
Total HxCDD	6.68		6.68		CS 12346-PeCDF	104	
Total HpCDD	ND		5.92		CS 123469-HxCDF	95.9	
					CS 1234689-HpCDF	107	
Total TCDF	ND	2.48	ND				
Total PeCDF	ND	2.9	ND				
Total HxCDF	9.79		19				
Total HpCDF	5.98		9.85				
Total PCDD/Fs	22.5		67.5				
ITEF TEQs							
TEQ: ND=0	1.71		2.75				
TEQ: ND=DL/2	5.96	4.82	7				
TEQ: ND=DL	10.2	9.64	11.3				



5500 Business Drive
 Wilmington, NC 28405, USA
 www.us.sgs.com
 Tel: +1 910 794-1613; Toll-Free 866 846-8290


Sample ID: 78-6R

TEQ Summary

Method 8290A

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7266_19641_DF_001
Client Project ID:	FC277X	Weight/Volume:	1.05 L	QC Batch No.:	19641
Date Collected:	01-Nov-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	05-Nov-2022	Dilution:	-	Date Analyzed:	30-Nov-2022 14:11
Lab Project No:	B7266	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(4.35)		4.35	(4.35)	(4.35)	(4.35)
12378-PeCDD	(3.45)		3.45	(1.72)	(3.45)	(3.45)
123478-HxCDD	(2.77)		2.77	(0.277)	(0.277)	(0.277)
123678-HxCDD	(2.94)		2.94	(0.294)	(0.294)	(0.294)
123789-HxCDD	6.68	J	3.19	0.668	0.668	0.668
1234678-HpCDD	[5.92]	J	2.49	[0.0592]	[0.0592]	[0.0592]
OCDD	[15.4]	J	4.89	[0.0154]	[0.00154]	[0.00463]
2378-TCDF	(2.48)		2.48	(0.248)	(0.248)	(0.248)
12378-PeCDF	(2.86)		2.86	(0.143)	(0.143)	(0.0859)
23478-PeCDF	(2.94)		2.94	(1.47)	(1.47)	(0.883)
123478-HxCDF	[3.91]	J	1.79	[0.391]	[0.391]	[0.391]
123678-HxCDF	4.08	J	1.8	0.408	0.408	0.408
234678-HxCDF	5.71	J	1.75	0.571	0.571	0.571
123789-HxCDF	[5.28]	J	2.06	[0.528]	[0.528]	[0.528]
1234678-HpCDF	[3.86]	J	1.53	[0.0386]	[0.0386]	[0.0386]
1234789-HpCDF	5.98	J	1.68	0.0598	0.0598	0.0598
OCDF	[10.7]	J	3.87	[0.0107]	[0.00107]	[0.00321]

5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 www.us.sgs.com 	TEQ Summaries			
	EMPC = 0, ND = 0	1.71	1.71	1.71
	EMPC = 0, ND = DL / 2	5.96	6.82	6.5
	EMPC = 0, ND = DL	10.2	11.9	11.3
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	2.75	2.73	2.73
	EMPC = EMPC, ND = DL / 2	7	7.84	7.53
	EMPC = EMPC, ND = DL	11.3	13	12.3
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 666-753-CRF

SGS North America - DF v0.99

Sample ID: OPCA-MW-6

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7266	Date Received:	05-Nov-2022
Project ID:	FC277X	Weight/Volume:	1.04 L	Lab Sample ID:	B7266_19641_DF_002	Date Extracted:	16-Nov-2022
Date Collected:	01-Nov-2022	pH:	6	QC Batch No:	19641	Date Analyzed:	30-Nov-2022
		Split:	-	Dilution:	-	Time Analyzed:	14:58:55
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	3.94			ES 2378-TCDD	96.7	
12378-PeCDD	ND	2.77			ES 12378-PeCDD	116	
123478-HxCDD	ND	2.69			ES 123478-HxCDD	98.9	
123678-HxCDD	ND	2.4			ES 123678-HxCDD	89.5	
123789-HxCDD	ND	2.9			ES 123789-HxCDD	93.9	
1234678-HpCDD	ND	2.1			ES 1234678-HpCDD	116	
OCDD	ND	4.56			ES OCDD	85.3	
2378-TCDF	ND	1.65			ES 2378-TCDF	98.7	
12378-PeCDF	ND	2			ES 12378-PeCDF	107	
23478-PeCDF	ND	2.08			ES 23478-PeCDF	105	
123478-HxCDF	ND	1.22			ES 123478-HxCDF	96.3	
123678-HxCDF	ND	1.33			ES 123678-HxCDF	90.7	
234678-HxCDF	ND	1.42			ES 234678-HxCDF	96	
123789-HxCDF	ND	1.76			ES 123789-HxCDF	105	
1234678-HpCDF	ND	1.34			ES 1234678-HpCDF	102	
1234789-HpCDF	ND	1.55			ES 1234789-HpCDF	116	
OCDF	ND	3.27			ES OCDF	86.8	
Totals					Standard	CS Recoveries	
Total TCDD	ND	3.94	ND		CS 37CI-2378-TCDD	98.6	
Total PeCDD	ND	2.77	ND		CS 12347-PeCDD	124	
Total HxCDD	ND	2.66	ND		CS 12346-PeCDF	109	
Total HpCDD	ND	2.1	ND		CS 123469-HxCDF	100	
					CS 1234689-HpCDF	113	
Total TCDF	ND	1.65	ND				
Total PeCDF	ND	2.04	ND				
Total HxCDF	ND	1.42	ND				
Total HpCDF	ND	1.44	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	4.03	4.03	4.03				
TEQ: ND=DL	8.06	8.06	8.06				




5500 Business Drive
 Wilmington, NC 28405, USA
www.us.sgs.com
 Tel: +1 910 794-1613; Toll-Free 866 846-8290

Sample ID: OPCA-MW-6 **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7266_19641_DF_002
Client Project ID:	FC277X	Weight/Volume:	1.04 L	QC Batch No.:	19641
Date Collected:	01-Nov-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	05-Nov-2022	Dilution:	-	Date Analyzed:	30-Nov-2022 14:58
Lab Project No:	B7266	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(3.94)		3.94	(3.94)	(3.94)	(3.94)
12378-PeCDD	(2.77)		2.77	(1.38)	(2.77)	(2.77)
123478-HxCDD	(2.69)		2.69	(0.269)	(0.269)	(0.269)
123678-HxCDD	(2.4)		2.4	(0.24)	(0.24)	(0.24)
123789-HxCDD	(2.9)		2.9	(0.29)	(0.29)	(0.29)
1234678-HpCDD	(2.1)		2.1	(0.021)	(0.021)	(0.021)
OCDD	(4.56)		4.56	(0.00456)	(0.000456)	(0.00137)
2378-TCDF	(1.65)		1.65	(0.165)	(0.165)	(0.165)
12378-PeCDF	(2)		2	(0.1)	(0.1)	(0.0601)
23478-PeCDF	(2.08)		2.08	(1.04)	(1.04)	(0.624)
123478-HxCDF	(1.22)		1.22	(0.122)	(0.122)	(0.122)
123678-HxCDF	(1.33)		1.33	(0.133)	(0.133)	(0.133)
234678-HxCDF	(1.42)		1.42	(0.142)	(0.142)	(0.142)
123789-HxCDF	(1.76)		1.76	(0.176)	(0.176)	(0.176)
1234678-HpCDF	(1.34)		1.34	(0.0134)	(0.0134)	(0.0134)
1234789-HpCDF	(1.55)		1.55	(0.0155)	(0.0155)	(0.0155)
OCDF	(3.27)		3.27	(0.00327)	(0.000327)	(0.00098)

5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 www.us.sgs.com 	TEQ Summaries			
	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	4.03	4.72	4.49
	EMPC = 0, ND = DL	8.06	9.44	8.99
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	4.03	4.72	4.49
	EMPC = EMPC, ND = DL	8.06	9.44	8.99
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 843-850-SKF

SGS North America - DF v0.99

Client Sample Results

Client: SGS North America Inc
Project/Site: GE Pittsfield - OPCA

Job ID: 410-104077-1

Client Sample ID: OPCA-MW-6

Lab Sample ID: 410-104077-1

Date Collected: 11/01/22 13:10

Matrix: Water

Date Received: 11/02/22 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	ND		2.0	0.70	mg/L			11/07/22 10:29	1

5

Project Name: GE PITTSFIELD-OPCA
Project Number: FC277X

Lab Number: L2261215
Report Date: 11/15/22

SAMPLE RESULTS

Lab ID: L2261215-01
 Client ID: 78-6R
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/01/22 12:30
 Date Received: 11/01/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/04/22 07:50	11/04/22 12:44	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC277X

Lab Number: L2261215
Report Date: 11/15/22

SAMPLE RESULTS

Lab ID: L2261215-02
 Client ID: OPCA-MW-6
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/01/22 13:10
 Date Received: 11/01/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/04/22 07:50	11/04/22 12:45	64,9014(M)	JER



Client / Reporting Information			Project Information			SGS Accutest Quote #											SKIFF #																				
Company Name: Arcadis			Project Name: GE Pittsfield - OPCA			Analytical Information											Matrix Codes																				
Address: One Lincoln Center 110 W Fayette St, Suite 300			Street: 159 Plastics Ave			VOCs STAND (EPA method 8260) (See attached Notes to Lab) Metals (Dissolved) (EPA method 8052) SVOCs STAND (See attached Notes to Lab) (EPA method 8270) Sulfide (EPA method 9034) PAC Cyanide (See attached Notes to Lab) Filler by Lab (EPA method 9014) Metals (Solid) (EPA method 9016, 7000A, and 7470A) Dioxin/Furans (EPA method 8241) 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene (EPA method 8248) Lead (Dissolved) (EPA method 8010/6020) NATURAL ATTEM 2-CHLOROPHENOL and 4-CHLOROPHENOL (EPA method 8270D) DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe											LAB USE ONLY																				
City: Syracuse State: NY Zip: 13202			City: Pittsfield State: MA																																		
Project Contact: Chris Kassel Penelope Rabasco Email: Chris.kassel@arcadis.com Penelope.rabasco@arcadis.com			Project # 30120721.4007																																		
Phone #: 413-464-2158 (Rabasco) 315-256-5386 (Kassel)			Fax #																																		
Sampler(s) Name(s) (Printed)			Client Purchase Order #																																		
Sampler 1: Penny Rabasco Sampler 2: Parker Eversoll																																					
SGS Accutest Sample #	Field ID / Point of Collection	COLLECTION			CONTAINER INFORMATION											INITIAL ASSESSMENT	LABEL VERIFICATION																				
		DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	PCB	PCB3	PCB4	MCH/ZN/C	D WATER	MECH																							
1	H78B-15	11/2/2022	11:30	PTR	GW	11		X	X																												
2	OPCA-MW-8R	11/2/2022	16:10	PTR	GW	10		X	X																												
3	GMA4-6	11/2/2022	10:50	JRD	GW	7		X	X																												
4	TripBlank-OPCA-3-110222	11/2/2022	--	--	WW	2							X																								
Turnaround Time (Business days)			Data Deliverable Information			Comments / Remarks																															
X 10 Day (Business) Approved By: / Date: _____ 7 Day _____ 5 Day _____ 3 Day RUSH _____ 2 Day RUSH _____ 1 Day RUSH _____ Other _____ Rush T/A Data Available VIA Email or Lablink			<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S CORE EDDS, Refer to Contract for details.			Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)																															
Relinquished by Sampler/Affiliation															Sample Custody must be documented below each time samples change possession, including courier delivery.																						
1 Relinquished by Sampler/Affiliation					2 Received By/Affiliation					3 Relinquished By/Affiliation					4 Received By/Affiliation																						
5 Relinquished by Sampler/Affiliation					6 Received By/Affiliation					7 Relinquished By/Affiliation					8 Received By/Affiliation																						
Lab Use Only : Cooler Temperature (s) Celsius: <u>21.6 C 6.0 C</u>																																					

6.1
6

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: H78B-15		Date Sampled: 11/02/22
Lab Sample ID: FC320-1		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P95479.D	1	11/16/22 18:23	CF	n/a	n/a	V2P3636
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND UJ	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	H78B-15	Date Sampled:	11/02/22
Lab Sample ID:	FC320-1	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
(b) Associated CCV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 4

Client Sample ID: H78B-15		Date Sampled: 11/02/22
Lab Sample ID: FC320-1		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085162.D	1	11/10/22 20:22	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	H78B-15	Date Sampled:	11/02/22
Lab Sample ID:	FC320-1	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzene ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthracene ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamine ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	H78B-15	Date Sampled:	11/02/22
Lab Sample ID:	FC320-1	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H78B-15	Date Sampled: 11/02/22
Lab Sample ID: FC320-1	Date Received: 11/03/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270E SW846 3510C	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	56%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	H78B-15	Date Sampled:	11/02/22
Lab Sample ID:	FC320-1F	Date Received:	11/03/22
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80430.D	1	11/14/22 20:22	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		38-127%
2051-24-3	Decachlorobiphenyl	98%		25-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H78B-15		Date Sampled: 11/02/22
Lab Sample ID: FC320-1F		Date Received: 11/03/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Barium	5.8 J	200	1.0	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Copper	1.1 J	25	1.0	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22	JC SW846 7470A ¹	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Tin	1.5 J	50	1.0	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³
Zinc ^a	ND	20	4.4	ug/l	1	11/11/22	11/14/22	LM SW846 6010D ²	SW846 3010A ³

- (1) Instrument QC Batch: MA19040
- (2) Instrument QC Batch: MA19041
- (3) Prep QC Batch: MP41466
- (4) Prep QC Batch: MP41475

(a) Analyte detected in the associated filter blank.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

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Report of Analysis

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Client Sample ID: OPCA-MW-8R		Date Sampled: 11/02/22
Lab Sample ID: FC320-2		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2P95481.D	1	11/16/22 18:55	CF	n/a	n/a	V2P3636

Run #1	Purge Volume
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND UJ	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-8R		Date Sampled: 11/02/22
Lab Sample ID: FC320-2		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
- (b) Associated CCV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

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Client Sample ID: OPCA-MW-8R		Date Sampled: 11/02/22
Lab Sample ID: FC320-2		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085163.D	1	11/10/22 20:48	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-8R	Date Sampled:	11/02/22
Lab Sample ID:	FC320-2	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-8R	Date Sampled:	11/02/22
Lab Sample ID:	FC320-2	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-8R		Date Sampled: 11/02/22
Lab Sample ID: FC320-2		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

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Client Sample ID: OPCA-MW-8R	Date Sampled: 11/02/22
Lab Sample ID: FC320-2F	Date Received: 11/03/22
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Method: SW846 8082A SW846 3510C	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80432.D	1	11/14/22 20:45	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		38-127%
2051-24-3	Decachlorobiphenyl	93%		25-137%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-8R		Date Sampled: 11/02/22
Lab Sample ID: FC320-2F		Date Received: 11/03/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Barium	60.3 J	200	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Chromium	6.8 J	10	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Copper	ND	25	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ¹	SW846 7470A ⁴
Nickel	4.9 J	40	0.40	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Zinc ^a	ND	20	4.4	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³

- (1) Instrument QC Batch: MA19040
- (2) Instrument QC Batch: MA19041
- (3) Prep QC Batch: MP41466
- (4) Prep QC Batch: MP41475

(a) Analyte detected in the associated filter blank.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

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SGS North America Inc.

Report of Analysis

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Client Sample ID: GMA4-6		Date Sampled: 11/02/22
Lab Sample ID: FC320-3		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085164.D	1	11/10/22 21:15	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	5.1	0.61	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.64	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	0.85	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.1	0.85	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	0.75	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.1	0.57	ug/l	
	3&4-Methylphenol	ND	5.1	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	0.87	ug/l	
100-02-7	4-Nitrophenol	ND	26	5.1	ug/l	
87-86-5	Pentachlorophenol	ND	26	5.1	ug/l	
108-95-2	Phenol ^a	ND	5.1	0.51	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	0.99	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	0.76	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	0.77	ug/l	
83-32-9	Acenaphthene	ND	5.1	0.64	ug/l	
208-96-8	Acenaphthylene	ND	5.1	0.65	ug/l	
98-86-2	Acetophenone	ND	5.1	0.83	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.1	0.76	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	5.1	0.82	ug/l	
62-53-3	Aniline	ND	5.1	1.0	ug/l	
120-12-7	Anthracene	ND	5.1	0.81	ug/l	
140-57-8	Aramite ^a	ND UJ	10	2.0	ug/l	
92-87-5	Benzidine	ND	26	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	0.78	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	0.80	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	0.79	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	0.84	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	0.88	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	0.63	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.1	0.86	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GMA4-6	Date Sampled:	11/02/22
Lab Sample ID:	FC320-3	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	5.1	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	0.64	ug/l	
510-15-6	Chlorobenzilate	ND	5.1	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.83	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.75	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	5.1	0.77	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.51	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.1	0.55	ug/l	
218-01-9	Chrysene	ND	5.1	0.87	ug/l	
2303-16-4	Diallate ^a	ND UJ	5.1	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	0.82	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.61	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.51	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.51	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.66	ug/l	
84-66-2	Diethyl Phthalate	ND	5.1	1.0	ug/l	
60-11-7	p-(Dimethylamino)azobenzene ^a	ND	5.1	1.0	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthracene ^a	ND UJ	5.1	1.0	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	10	2.9	ug/l	R
122-09-8	A,A-Dimethylphenethylamine ^a	ND	26	5.1	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.1	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.1	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.1	1.0	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.1	0.92	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	0.83	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	0.73	ug/l	
122-39-4	Diphenylamine	ND	5.1	0.82	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.78	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	1.0	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	5.1	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	0.56	ug/l	
86-73-7	Fluorene	ND	5.1	0.72	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.71	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	5.1	1.8	ug/l	
67-72-1	Hexachloroethane	ND	5.1	1.7	ug/l	
70-30-4	Hexachlorophene ^c	ND	100	51	ug/l	R
1888-71-7	Hexachloropropene	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	0.73	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GMA4-6	Date Sampled:	11/02/22
Lab Sample ID:	FC320-3	Date Received:	11/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	5.1	1.1	ug/l	
78-59-1	Isophorone	ND	5.1	0.79	ug/l	
120-58-1	Isosafrole ^a	ND UJ	5.1	2.4	ug/l	
91-80-5	Methapyrilene ^a	ND	20	4.1	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	5.1	1.0	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	5.1	0.78	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	0.61	ug/l	
91-20-3	Naphthalene	ND	5.1	0.51	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.1	0.74	ug/l	
134-32-7	1-Naphthylamine ^a	ND	5.1	1.2	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	5.1	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	0.90	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	1.2	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.95	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.1	1.3	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	5.1	0.88	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.1	0.51	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	5.1	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.1	0.68	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.82	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.1	1.0	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	5.1	0.90	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	5.1	1.2	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	5.1	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	5.1	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	5.1	1.0	ug/l	
608-93-5	Pentachlorobenzene	ND	5.1	3.2	ug/l	
76-01-7	Pentachloroethane	ND	5.1	3.5	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	5.1	1.6	ug/l	
62-44-2	Phenacetin	ND	5.1	1.3	ug/l	
85-01-8	Phenanthrene	ND	5.1	0.88	ug/l	
106-50-3	p-Phenylenediamine	ND	51	10	ug/l	
109-06-8	2-Picoline ^a	ND	5.1	1.0	ug/l	
23950-58-5	Pronamide	ND	5.1	1.4	ug/l	
129-00-0	Pyrene	ND	5.1	0.70	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
94-59-7	Safrole ^a	ND	5.1	1.7	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.1	0.51	ug/l	
297-97-2	Thionazin	ND	5.1	1.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GMA4-6		Date Sampled: 11/02/22
Lab Sample ID: FC320-3		Date Received: 11/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	5.1	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.1	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	GMA4-6	Date Sampled:	11/02/22
Lab Sample ID:	FC320-3F	Date Received:	11/03/22
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80433.D	1	11/14/22 20:57	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	240 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.42	0.17	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.42	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.42	0.21	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.42	0.17	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.42	0.17	ug/l	
11097-69-1	Aroclor 1254	ND	0.42	0.17	ug/l	
11096-82-5	Aroclor 1260	ND	0.42	0.17	ug/l	
1336-36-3	Total PCBs	ND UJ	0.42	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		38-127%
2051-24-3	Decachlorobiphenyl	92%		25-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GMA4-6	Date Sampled: 11/02/22
Lab Sample ID: FC320-3F	Date Received: 11/03/22
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Barium	5.8 J	200	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Cobalt	0.30 J	50	0.20	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Copper	ND	25	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/14/22	11/14/22 JC	SW846 7470A ¹	SW846 7470A ⁴
Nickel	1.8 J	40	0.40	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³
Zinc ^a	7.5J 20U	20	4.4	ug/l	1	11/11/22	11/14/22 LM	SW846 6010D ²	SW846 3010A ³

- (1) Instrument QC Batch: MA19040
- (2) Instrument QC Batch: MA19041
- (3) Prep QC Batch: MP41466
- (4) Prep QC Batch: MP41475

(a) Analyte detected in the associated filter blank.

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

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SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIPBLANK-OPCA-3-110222	Date Sampled:	11/02/22
Lab Sample ID:	FC320-4	Date Received:	11/03/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P95453.D	1	11/16/22 11:30	CF	n/a	n/a	V2P3636
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND UJ	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIPBLANK-OPCA-3-110222		Date Sampled: 11/02/22
Lab Sample ID: FC320-4		Date Received: 11/03/22
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
- (b) Associated CCV outside control limits high, sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Client Sample Results

Client: SGS North America Inc
Project/Site: GE Pittsfield - OPCA

Job ID: 410-104630-1

Client Sample ID: H78B-15

Lab Sample ID: 410-104630-1

Date Collected: 11/02/22 11:30

Matrix: Water

Date Received: 11/05/22 10:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	ND		2.0	0.70	mg/L			11/07/22 10:29	1

5

Project Name: GE PITTSFIELD-OPCA
Project Number: FC320X

Lab Number: L2261565
Report Date: 11/16/22

SAMPLE RESULTS

Lab ID: L2261565-01
 Client ID: H78B-15
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/02/22 11:30
 Date Received: 11/02/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 15:56	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC320X

Lab Number: L2261565
Report Date: 11/16/22

SAMPLE RESULTS

Lab ID: L2261565-02
 Client ID: OPCA-MW-8R
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/02/22 16:10
 Date Received: 11/02/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 15:58	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC320X

Lab Number: L2261565
Report Date: 11/16/22

SAMPLE RESULTS

Lab ID: L2261565-03
 Client ID: GMA4-6
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/02/22 10:50
 Date Received: 11/02/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 16:00	64,9014(M)	JER





B7473

CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

Table with 2 rows and 2 columns: FED-EX Tracking #, Bottle Order Control #; SGS Quote #, SGS Job # FC320X

Main data entry form with sections: Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, and a large table for sample collection details (Field ID, Date, Time, Matrix, etc.).

Administrative section containing: Turnaround Time (Business days), Approved By (SGS PM) / Date, Data Deliverable Information (Commercial A, B, C, etc.), and Comments / Special Instructions.

Chain of Custody tracking section with columns for Relinquished by, Date Time, Received By, and Date Time, including handwritten signatures and dates.

SGS 144 of 1591 FC320



Sample ID: H78B-15

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7473	Date Received:	29-Dec-2022
Project ID:	FC320X	Weight/Volume:	1.05 L	Lab Sample ID:	B7473_19753_DF_001	Date Extracted:	04-Jan-2023
Date Collected:	02-Nov-2022	pH:	6	QC Batch No:	19753	Date Analyzed:	10-Jan-2023
		Split:	-	Dilution:	-	Time Analyzed:	17:30:51
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	3.07			ES 2378-TCDD	68.7	
12378-PeCDD	ND	3.06			ES 12378-PeCDD	81.8	
123478-HxCDD	ND	1.79			ES 123478-HxCDD	71.6	
123678-HxCDD	ND	2.12			ES 123678-HxCDD	62.9	
123789-HxCDD	ND	1.96			ES 123789-HxCDD	68.1	
1234678-HpCDD	ND	1.74			ES 1234678-HpCDD	79.6	
OCDD	ND	4.19			ES OCDD	64.8	
2378-TCDF	ND	2.18			ES 2378-TCDF	71.3	
12378-PeCDF	ND	1.78			ES 12378-PeCDF	79.2	
23478-PeCDF	ND	1.75			ES 23478-PeCDF	77.5	
123478-HxCDF	ND	1.72			ES 123478-HxCDF	58.9	
123678-HxCDF	ND	1.57			ES 123678-HxCDF	59.3	
234678-HxCDF	ND	1.7			ES 234678-HxCDF	59.2	
123789-HxCDF	ND	1.81			ES 123789-HxCDF	64.1	
1234678-HpCDF	ND	1.44			ES 1234678-HpCDF	68.3	
1234789-HpCDF	ND	1.67			ES 1234789-HpCDF	70.2	
OCDF	ND	3.16			ES OCDF	57.9	
Totals					Standard	CS Recoveries	
Total TCDD	ND	3.07	ND		CS 37CI-2378-TCDD	97.7	
Total PeCDD	ND	3.06	ND		CS 12347-PeCDD	119	
Total HxCDD	ND	1.95	ND		CS 12346-PeCDF	106	
Total HpCDD	ND	1.74	ND		CS 123469-HxCDF	83.2	
					CS 1234689-HpCDF	98.5	
Total TCDF	ND	2.18	ND				
Total PeCDF	ND	1.77	ND				
Total HxCDF	ND	1.69	ND				
Total HpCDF	ND	1.55	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	3.55	3.55	3.55				
TEQ: ND=DL	7.1	7.1	7.1				




5500 Business Drive
 Wilmington, NC 28405, USA
 www.us.sgs.com
 Tel: +1 910 794-1613; Toll-Free 866 846-8290

Sample ID: H78B-15 **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7473_19753_DF_001
Client Project ID:	FC320X	Weight/Volume:	1.05 L	QC Batch No.:	19753
Date Collected:	02-Nov-2022	Split:	-	Date Extracted:	04-Jan-2023
Date Received:	29-Dec-2022	Dilution:	-	Date Analyzed:	10-Jan-2023 17:30
Lab Project No:	B7473	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(3.07)		3.07	(3.07)	(3.07)	(3.07)
12378-PeCDD	(3.06)		3.06	(1.53)	(3.06)	(3.06)
123478-HxCDD	(1.79)		1.79	(0.179)	(0.179)	(0.179)
123678-HxCDD	(2.12)		2.12	(0.212)	(0.212)	(0.212)
123789-HxCDD	(1.96)		1.96	(0.196)	(0.196)	(0.196)
1234678-HpCDD	(1.74)		1.74	(0.0174)	(0.0174)	(0.0174)
OCDD	(4.19)		4.19	(0.00419)	(0.000419)	(0.00126)
2378-TCDF	(2.18)		2.18	(0.218)	(0.218)	(0.218)
12378-PeCDF	(1.78)		1.78	(0.0891)	(0.0891)	(0.0534)
23478-PeCDF	(1.75)		1.75	(0.875)	(0.875)	(0.525)
123478-HxCDF	(1.72)		1.72	(0.172)	(0.172)	(0.172)
123678-HxCDF	(1.57)		1.57	(0.157)	(0.157)	(0.157)
234678-HxCDF	(1.7)		1.7	(0.17)	(0.17)	(0.17)
123789-HxCDF	(1.81)		1.81	(0.181)	(0.181)	(0.181)
1234678-HpCDF	(1.44)		1.44	(0.0144)	(0.0144)	(0.0144)
1234789-HpCDF	(1.67)		1.67	(0.0167)	(0.0167)	(0.0167)
OCDF	(3.16)		3.16	(0.00316)	(0.000316)	(0.000947)

5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 www.us.sgs.com 	TEQ Summaries			
	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	3.55	4.31	4.12
	EMPC = 0, ND = DL	7.1	8.63	8.25
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	3.55	4.31	4.12
	EMPC = EMPC, ND = DL	7.1	8.63	8.25
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 651-766-YBR

SGS North America - DF v0.99

Sample ID: OPCA-MW-8R

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7473	Date Received:	29-Dec-2022
Project ID:	FC320X	Weight/Volume:	1.06 L	Lab Sample ID:	B7473_19753_DF_002	Date Extracted:	04-Jan-2023
Date Collected:	02-Nov-2022	pH:	7	QC Batch No:	19753	Date Analyzed:	10-Jan-2023
		Split:	-	Dilution:	-	Time Analyzed:	18:18:26
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	2.51			ES 2378-TCDD	93.7	
12378-PeCDD	ND	1.78			ES 12378-PeCDD	111	
123478-HxCDD	ND	1.47			ES 123478-HxCDD	94.9	
123678-HxCDD	ND	1.54			ES 123678-HxCDD	84.9	
123789-HxCDD	ND	1.66			ES 123789-HxCDD	90.1	
1234678-HpCDD	ND	1.48			ES 1234678-HpCDD	101	
OCDD	ND	2.56			ES OCDD	81.8	
2378-TCDF	ND	1.31			ES 2378-TCDF	95.7	
12378-PeCDF	ND	1.12			ES 12378-PeCDF	106	
23478-PeCDF	ND	1.02			ES 23478-PeCDF	109	
123478-HxCDF	ND	0.982			ES 123478-HxCDF	76.8	
123678-HxCDF	ND	1.03			ES 123678-HxCDF	74.2	
234678-HxCDF	ND	1.12			ES 234678-HxCDF	78.7	
123789-HxCDF	ND	1.24			ES 123789-HxCDF	87.8	
1234678-HpCDF	ND	0.952			ES 1234678-HpCDF	89.7	
1234789-HpCDF	ND	1.17			ES 1234789-HpCDF	91.1	
OCDF	ND	2.53			ES OCDF	72.1	
Totals					Standard	CS Recoveries	
Total TCDD	ND	2.51	ND		CS 37CI-2378-TCDD	102	
Total PeCDD	ND	1.78	ND		CS 12347-PeCDD	128	
Total HxCDD	ND	1.56	ND		CS 12346-PeCDF	110	
Total HpCDD	ND	1.48	ND		CS 123469-HxCDF	80.3	
					CS 1234689-HpCDF	96.4	
Total TCDF	ND	1.31	ND				
Total PeCDF	ND	1.07	ND				
Total HxCDF	ND	1.09	ND				
Total HpCDF	ND	1.05	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	2.52	2.52	2.52				
TEQ: ND=DL	5.05	5.05	5.05				




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Sample ID: OPCA-MW-8R **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7473_19753_DF_002
Client Project ID:	FC320X	Weight/Volume:	1.06 L	QC Batch No.:	19753
Date Collected:	02-Nov-2022	Split:	-	Date Extracted:	04-Jan-2023
Date Received:	29-Dec-2022	Dilution:	-	Date Analyzed:	10-Jan-2023 18:18
Lab Project No:	B7473	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(2.51)		2.51	(2.51)	(2.51)	(2.51)
12378-PeCDD	(1.78)		1.78	(0.891)	(1.78)	(1.78)
123478-HxCDD	(1.47)		1.47	(0.147)	(0.147)	(0.147)
123678-HxCDD	(1.54)		1.54	(0.154)	(0.154)	(0.154)
123789-HxCDD	(1.66)		1.66	(0.166)	(0.166)	(0.166)
1234678-HpCDD	(1.48)		1.48	(0.0148)	(0.0148)	(0.0148)
OCDD	(2.56)		2.56	(0.00256)	(0.000256)	(0.000768)
2378-TCDF	(1.31)		1.31	(0.131)	(0.131)	(0.131)
12378-PeCDF	(1.12)		1.12	(0.0558)	(0.0558)	(0.0335)
23478-PeCDF	(1.02)		1.02	(0.512)	(0.512)	(0.307)
123478-HxCDF	(0.982)		0.982	(0.0982)	(0.0982)	(0.0982)
123678-HxCDF	(1.03)		1.03	(0.103)	(0.103)	(0.103)
234678-HxCDF	(1.12)		1.12	(0.112)	(0.112)	(0.112)
123789-HxCDF	(1.24)		1.24	(0.124)	(0.124)	(0.124)
1234678-HpCDF	(0.952)		0.952	(0.00952)	(0.00952)	(0.00952)
1234789-HpCDF	(1.17)		1.17	(0.0117)	(0.0117)	(0.0117)
OCDF	(2.53)		2.53	(0.00253)	(0.000253)	(0.00076)


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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	2.52	2.97	2.85
	EMPC = 0, ND = DL	5.05	5.94	5.71
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	2.52	2.97	2.85
	EMPC = EMPC, ND = DL	5.05	5.94	5.71
EMPC = EMPC, < J-level = 0	0	0	0	

Checkcode: 067-922-RRR

SGS North America - DF v0.99

Sample ID: GMA4-6

Method 8290A


Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7473	Date Received:	29-Dec-2022
Project ID:	FC320X	Weight/Volume:	0.96 L	Lab Sample ID:	B7473_19753_DF_003	Date Extracted:	04-Jan-2023
Date Collected:	02-Nov-2022	pH:	6	QC Batch No:	19753	Date Analyzed:	10-Jan-2023
		Split:	-	Dilution:	-	Time Analyzed:	19:06:02
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	2.37			ES 2378-TCDD	94.4	
12378-PeCDD	ND	1.54			ES 12378-PeCDD	113	
123478-HxCDD	ND	1.68			ES 123478-HxCDD	93.7	
123678-HxCDD	ND	1.64			ES 123678-HxCDD	87.5	
123789-HxCDD	ND	1.79			ES 123789-HxCDD	91.2	
1234678-HpCDD	ND	1.85			ES 1234678-HpCDD	103	
OCDD	14.1			J	ES OCDD	85.2	
2378-TCDF	ND	1.9			ES 2378-TCDF	96.8	
12378-PeCDF	ND	1.52			ES 12378-PeCDF	114	
23478-PeCDF	ND	1.47			ES 23478-PeCDF	112	
123478-HxCDF	ND	1.31			ES 123478-HxCDF	81.4	
123678-HxCDF	ND	1.23			ES 123678-HxCDF	77	
234678-HxCDF	ND	1.36			ES 234678-HxCDF	79.1	
123789-HxCDF	ND	1.57			ES 123789-HxCDF	89.5	
1234678-HpCDF	ND	1.09			ES 1234678-HpCDF	92.2	
1234789-HpCDF	ND	1.36			ES 1234789-HpCDF	97.9	
OCDF	ND	3.08			ES OCDF	76.6	
Totals					Standard	CS Recoveries	
Total TCDD	ND	2.37	ND		CS 37CI-2378-TCDD	95.7	
Total PeCDD	ND	1.54	ND		CS 12347-PeCDD	120	
Total HxCDD	ND	1.7	ND		CS 12346-PeCDF	114	
Total HpCDD	ND	1.85	ND		CS 123469-HxCDF	80.2	
					CS 1234689-HpCDF	100	
Total TCDF	ND	1.9	ND				
Total PeCDF	ND	1.49	ND				
Total HxCDF	ND	1.36	ND				
Total HpCDF	ND	1.21	ND				
Total PCDD/Fs	14.1		14.1				
ITEF TEQs							
TEQ: ND=0	0.0141		0.0141		 5500 Business Drive Wilmington, NC 28405, USA www.us.sgs.com Tel: +1 910 794-1613; Toll-Free 866 846-8290		
TEQ: ND=DL/2	2.64	2.62	2.64				
TEQ: ND=DL	5.26	5.25	5.26				



Sample ID: GMA4-6 **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7473_19753_DF_003
Client Project ID:	FC320X	Weight/Volume:	0.96 L	QC Batch No.:	19753
Date Collected:	02-Nov-2022	Split:	-	Date Extracted:	04-Jan-2023
Date Received:	29-Dec-2022	Dilution:	-	Date Analyzed:	10-Jan-2023 19:06
Lab Project No:	B7473	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(2.37)		2.37	(2.37)	(2.37)	(2.37)
12378-PeCDD	(1.54)		1.54	(0.771)	(1.54)	(1.54)
123478-HxCDD	(1.68)		1.68	(0.168)	(0.168)	(0.168)
123678-HxCDD	(1.64)		1.64	(0.164)	(0.164)	(0.164)
123789-HxCDD	(1.79)		1.79	(0.179)	(0.179)	(0.179)
1234678-HpCDD	(1.85)		1.85	(0.0185)	(0.0185)	(0.0185)
OCDD	14.1	J	3.74	0.0141	0.00141	0.00422
2378-TCDF	(1.9)		1.9	(0.19)	(0.19)	(0.19)
12378-PeCDF	(1.52)		1.52	(0.0759)	(0.0759)	(0.0456)
23478-PeCDF	(1.47)		1.47	(0.735)	(0.735)	(0.441)
123478-HxCDF	(1.31)		1.31	(0.131)	(0.131)	(0.131)
123678-HxCDF	(1.23)		1.23	(0.123)	(0.123)	(0.123)
234678-HxCDF	(1.36)		1.36	(0.136)	(0.136)	(0.136)
123789-HxCDF	(1.57)		1.57	(0.157)	(0.157)	(0.157)
1234678-HpCDF	(1.09)		1.09	(0.0109)	(0.0109)	(0.0109)
1234789-HpCDF	(1.36)		1.36	(0.0136)	(0.0136)	(0.0136)
OCDF	(3.08)		3.08	(0.00308)	(0.000308)	(0.000925)

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	EMPC = 0, ND = 0	0.0141	0.00141	0.00422
	EMPC = 0, ND = DL / 2	2.64	3.01	2.85
	EMPC = 0, ND = DL	5.26	6.01	5.69
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0.0141	0.00141	0.00422
	EMPC = EMPC, ND = DL / 2	2.64	3.01	2.85
	EMPC = EMPC, ND = DL	5.26	6.01	5.69
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 234-101-WBK

SGS North America - DF v0.99





ACCUTEST

SGS Accutest Southeast

Chain of Custody

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FC353

of Coolers 1

SGS ACCUTEST JOB #:

PAGE 1 OF 2

Form containing Client/Reporting Information, Project Information, Analytical Information, Matrix Codes, Turnaround Time, Data Deliverable Information, Comments/Remarks, and Sample Custody sections.

FC353: Chain of Custody

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6.1

6



SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: 78-1		Date Sampled: 11/03/22
Lab Sample ID: FC353-1		Date Received: 11/04/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1752702.D	1	11/17/22 12:52	KG	n/a	n/a	VI2751
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND UJ	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-1		Date Sampled: 11/03/22
Lab Sample ID: FC353-1		Date Received: 11/04/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^b	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate ^c	ND UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
- (b) Associated CCV outside control limits high, sample is ND.
- (c) Associated Initial Calibration invalid.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 4

Client Sample ID: 78-1		Date Sampled: 11/03/22
Lab Sample ID: FC353-1		Date Received: 11/04/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085165.D	1	11/10/22 21:41	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-1		
Lab Sample ID: FC353-1		Date Sampled: 11/03/22
Matrix: AQ - Ground Water		Date Received: 11/04/22
Method: SW846 8270E SW846 3510C		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	1.2	4.9	0.98	ug/l	J
60-11-7	p-(Dimethylamino)azobenzene ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthracene ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamine ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
 4

Report of Analysis

Client Sample ID: 78-1		Date Sampled: 11/03/22
Lab Sample ID: FC353-1		Date Received: 11/04/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-1	
Lab Sample ID: FC353-1	Date Sampled: 11/03/22
Matrix: AQ - Ground Water	Date Received: 11/04/22
Method: SW846 8270E SW846 3510C	Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	63%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 1

Client Sample ID: 78-1		
Lab Sample ID: FC353-1F		Date Sampled: 11/03/22
Matrix: AQ - Groundwater Filtered		Date Received: 11/04/22
Method: SW846 8082A SW846 3510C		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80439.D	1	11/14/22 22:07	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		38-127%
2051-24-3	Decachlorobiphenyl	100%		25-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 78-1		Date Sampled: 11/03/22
Lab Sample ID: FC353-1F		Date Received: 11/04/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Arsenic	ND	10	1.3	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Barium	23.6 J	200	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Beryllium	ND	4.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Cadmium	ND	5.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Chromium	ND	10	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Cobalt	ND	50	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Copper	ND	25	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Lead	ND	5.0	1.1	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Mercury	ND	0.50	0.030	ug/l	1	11/17/22	11/17/22 JC	SW846 7470A ²	SW846 7470A ⁵
Nickel	ND	40	0.40	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Selenium	ND	10	2.9	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Silver	ND	10	0.70	ug/l	1	11/14/22	11/18/22 LM	SW846 6010D ³	SW846 3010A ⁶
Thallium	ND	10	1.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Tin	ND	50	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Vanadium	ND	50	0.60	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴
Zinc	ND	20	4.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁴

- (1) Instrument QC Batch: MA19044
- (2) Instrument QC Batch: MA19047
- (3) Instrument QC Batch: MA19049
- (4) Prep QC Batch: MP41476
- (5) Prep QC Batch: MP41491
- (6) Prep QC Batch: MP41494

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

4.2
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Report of Analysis

Client Sample ID: OPCA-MW-7		Date Sampled: 11/03/22
Lab Sample ID: FC353-2F		Date Received: 11/04/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	1.7 J	6.0	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Arsenic	ND	10	1.3	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Barium	14.0 J	200	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Beryllium	ND	4.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Cadmium	0.50 J	5.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Chromium	3.7 J	10	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Cobalt	0.20 J	50	0.20	ug/l	1	11/14/22	11/16/22 LM	SW846 6010D ²	SW846 3010A ⁵
Copper	ND	25	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Lead	ND	5.0	1.1	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Mercury	ND	0.50	0.030	ug/l	1	11/17/22	11/17/22 JC	SW846 7470A ³	SW846 7470A ⁶
Nickel	16.7 J	40	0.40	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Selenium	ND	10	2.9	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Silver	ND	10	0.70	ug/l	1	11/14/22	11/18/22 LM	SW846 6010D ⁴	SW846 3010A ⁷
Thallium	ND	10	1.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Tin	ND	50	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Vanadium	ND	50	0.60	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Zinc	ND	20	4.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵

- (1) Instrument QC Batch: MA19044
- (2) Instrument QC Batch: MA19046
- (3) Instrument QC Batch: MA19047
- (4) Instrument QC Batch: MA19049
- (5) Prep QC Batch: MP41476
- (6) Prep QC Batch: MP41491
- (7) Prep QC Batch: MP41494

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID: OPCA-MW-4		Date Sampled: 11/03/22
Lab Sample ID: FC353-3F		Date Received: 11/04/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	1.5 J	6.0	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Arsenic	ND	10	1.3	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Barium	20.9 J	200	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Beryllium	ND	4.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Cadmium	1.0 J	5.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Chromium	ND	10	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Cobalt	ND	50	0.20	ug/l	1	11/14/22	11/16/22 LM	SW846 6010D ²	SW846 3010A ⁵
Copper	ND	25	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Lead	ND	5.0	1.1	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Mercury	ND	0.50	0.030	ug/l	1	11/17/22	11/17/22 JC	SW846 7470A ³	SW846 7470A ⁶
Nickel	ND	40	0.40	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Selenium	ND	10	2.9	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Silver	ND	10	0.70	ug/l	1	11/14/22	11/18/22 LM	SW846 6010D ⁴	SW846 3010A ⁷
Thallium	ND	10	1.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Tin	ND	50	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Vanadium	ND	50	0.60	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵
Zinc	ND	20	4.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ⁵

- (1) Instrument QC Batch: MA19044
- (2) Instrument QC Batch: MA19046
- (3) Instrument QC Batch: MA19047
- (4) Instrument QC Batch: MA19049
- (5) Prep QC Batch: MP41476
- (6) Prep QC Batch: MP41491
- (7) Prep QC Batch: MP41494

RL = Reporting Limit
 MDL = Method Detection Limit

ND = Not detected
 J = Indicates a result > = MDL but < RL

4.4
4

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Report of Analysis

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Client Sample ID:	TRIPBLANK-OPCA-4-110322	Date Sampled:	11/03/22
Lab Sample ID:	FC353-4	Date Received:	11/04/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1752698.D	1	11/17/22 11:17	KG	n/a	n/a	VI2751
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND UJ	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIPBLANK-OPCA-4-110322	Date Sampled: 11/03/22
Lab Sample ID: FC353-4	Date Received: 11/04/22
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260D	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride ^b	ND UJ	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate ^c	ND UJ	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
- (b) Associated CCV outside control limits high, sample is ND.
- (c) Associated Initial Calibration invalid.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY
SGS North America Inc. - Orlando
 4405 Vineland Road, Suite C-15 Orlando, FL 32811
 TEL: 407-425-6700 FAX: 407-425-0707
 www.sgs.com/ehsusa

B7276

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # FC353X

Client / Reporting Information				Project Information												Requested Analysis (see TEST CODE sheet)												Matrix Codes
Company Name: SGS North America Inc.				Project Name: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA																								DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL- Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank
Street Address 4405 Vineland Rd, Suite C-15				Street																								
City State Zip Orlando FL 32811				Billing Information (if different from Report to) Company Name																								
Project Contact E-mail ariel.hartnay@sgs.com				Project # Street Address																								
Phone # 407-425-6700				City State Zip																								
Sampler(s) Name(s) RDR				Phone Project Manager Attention:																								
SGS Sample #	Field ID / Point of Collection	MEQNDI Vial #	Collection						Number of preserved Bottles						B2280TODF	LAB USE ONLY												
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NH ₄ H	HNO ₃	H ₂ SO ₄	NONE	DI Water	MEQH			ENCORE											
1X	7B-1		11/3/22	3:45:00 PM	RDR	AQ	1					1	AG			X												
Turnaround Time (Business days)			Data Deliverable Information												Comments / Special Instructions													

<input type="checkbox"/> Standard 10 Day (business) <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> other Due 11/18/2022	Approved By (SGS PM): / Date: _____ _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> REDT1 (Level 3) <input checked="" type="checkbox"/> FULT1 (Level 4) <input type="checkbox"/> Commercial "C"	<input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other	Send to SGS Wilmington http://www.sgs.com/en/terms-and-conditions
--	---	--	---	---

Commercial "A" = Results Only
 Commercial "B" = Results + QC Summary
 Commercial "C" = Results + QC Summary + Partial Raw data

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: <i>[Signature]</i>	Date Time: <i>11/18/22</i>	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: <i>11/18/22 9:54</i>	Received By: <i>[Signature]</i>
Relinquished by Sampler:	Date Time: <i>11/18/22</i>	Received By:	Relinquished By:	Date Time:	Received By:
Relinquished by:	Date Time:	Received By:	Custody Seal #	<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Preserved where applicable <input type="checkbox"/>
				Therm. ID: <i>124</i>	On Ice <input checked="" type="checkbox"/> Cooler Temp: <i>0.0</i>

SGS
FC353
36 of 1668



Sample ID: 78-1

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7276	Date Received:	09-Nov-2022
Project ID:	FC353X	Weight/Volume:	1.05 L	Lab Sample ID:	B7276_19641_DF_001-RJ	Date Extracted:	16-Nov-2022
Date Collected:	03-Nov-2022	pH:	6	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	23:44:58
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	5.46			ES 2378-TCDD	96.1	
12378-PeCDD	ND	2.51			ES 12378-PeCDD	107	
123478-HxCDD	ND	2.91			ES 123478-HxCDD	89.7	
123678-HxCDD	ND	2.99			ES 123678-HxCDD	83	
123789-HxCDD	ND	3.17			ES 123789-HxCDD	88.5	
1234678-HpCDD	ND	2.62			ES 1234678-HpCDD	100	
OCDD	ND	4.25			ES OCDD	81.7	
2378-TCDF	ND	3.76			ES 2378-TCDF	96.9	
12378-PeCDF	ND	1.67			ES 12378-PeCDF	107	
23478-PeCDF	ND	1.62			ES 23478-PeCDF	107	
123478-HxCDF	ND	1.59			ES 123478-HxCDF	80.8	
123678-HxCDF	ND	1.7			ES 123678-HxCDF	76.9	
234678-HxCDF	ND	1.75			ES 234678-HxCDF	80.9	
123789-HxCDF	ND	2.09			ES 123789-HxCDF	91.7	
1234678-HpCDF	ND	1.5			ES 1234678-HpCDF	92.2	
1234789-HpCDF	ND	1.67			ES 1234789-HpCDF	105	
OCDF	ND	3.34			ES OCDF	86	
Totals					Standard	CS Recoveries	
Total TCDD	ND	5.46	ND		CS 37CI-2378-TCDD	97	
Total PeCDD	ND	2.51	ND		CS 12347-PeCDD	119	
Total HxCDD	ND	3.02	ND		CS 12346-PeCDF	112	
Total HpCDD	ND	2.62	ND		CS 123469-HxCDF	87.3	
					CS 1234689-HpCDF	104	
Total TCDF	ND	3.76	ND				
Total PeCDF	ND	1.64	ND				
Total HxCDF	ND	1.77	ND				
Total HpCDF	ND	1.58	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	4.83	4.83	4.83				
TEQ: ND=DL	9.67	9.67	9.67				



5500 Business Drive

Wilmington, NC 28405, USA


www.us.sgs.com

Tel: +1 910 794-1613; Toll-Free 866 846-8290

Sample ID: 78-1 **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7276_19641_DF_001-RJ
Client Project ID:	FC353X	Weight/Volume:	1.05 L	QC Batch No.:	19641
Date Collected:	03-Nov-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	09-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 23:44
Lab Project No:	B7276	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(5.46)		5.46	(5.46)	(5.46)	(5.46)
12378-PeCDD	(2.51)		2.51	(1.25)	(2.51)	(2.51)
123478-HxCDD	(2.91)		2.91	(0.291)	(0.291)	(0.291)
123678-HxCDD	(2.99)		2.99	(0.299)	(0.299)	(0.299)
123789-HxCDD	(3.17)		3.17	(0.317)	(0.317)	(0.317)
1234678-HpCDD	(2.62)		2.62	(0.0262)	(0.0262)	(0.0262)
OCDD	(4.25)		4.25	(0.00425)	(0.000425)	(0.00128)
2378-TCDF	(3.76)		3.76	(0.376)	(0.376)	(0.376)
12378-PeCDF	(1.67)		1.67	(0.0833)	(0.0833)	(0.05)
23478-PeCDF	(1.62)		1.62	(0.81)	(0.81)	(0.486)
123478-HxCDF	(1.59)		1.59	(0.159)	(0.159)	(0.159)
123678-HxCDF	(1.7)		1.7	(0.17)	(0.17)	(0.17)
234678-HxCDF	(1.75)		1.75	(0.175)	(0.175)	(0.175)
123789-HxCDF	(2.09)		2.09	(0.209)	(0.209)	(0.209)
1234678-HpCDF	(1.5)		1.5	(0.015)	(0.015)	(0.015)
1234789-HpCDF	(1.67)		1.67	(0.0167)	(0.0167)	(0.0167)
OCDF	(3.34)		3.34	(0.00334)	(0.000334)	(0.001)

5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 www.us.sgs.com 	TEQ Summaries			
	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	4.83	5.46	5.28
	EMPC = 0, ND = DL	9.67	10.9	10.6
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	4.83	5.46	5.28
	EMPC = EMPC, ND = DL	9.67	10.9	10.6
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 782-338-VLC

SGS North America - DF v0.99



Project Name: GE PITTSFIELD-OPCA
Project Number: FC353X

Lab Number: L2261927
Report Date: 11/16/22

SAMPLE RESULTS

Lab ID: L2261927-01
 Client ID: 78-1
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/03/22 15:45
 Date Received: 11/03/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 16:01	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC353X

Lab Number: L2261927
Report Date: 11/16/22

SAMPLE RESULTS

Lab ID: L2261927-02
 Client ID: OPCA-MW-7
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/03/22 11:55
 Date Received: 11/03/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.000	--	1	11/10/22 02:25	11/10/22 16:04	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC353X

Lab Number: L2261927
Report Date: 11/16/22

SAMPLE RESULTS

Lab ID: L2261927-03
 Client ID: OPCA-MW-4
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/03/22 17:10
 Date Received: 11/03/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 16:05	64,9014(M)	JER



Client / Reporting Information			Project Information													Analytical Information								SKIFF #					
Company Name: Arcadis			Project Name: GE Pittsfield - OPCA													Matrix Codes													
Address: One Lincoln Center 110 W Fayette St. Suite 300			Street: 159 Plastics Ave													DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe													
City: Syracuse State: NY Zip: 13202			City: Pittsfield State: MA													VOCs STAND (EPA method 8260) (See attached Notes to Lab) PEB (Dissolved) (EPA method 8052) VOCs STAND (See attached Notes to Lab) (EPA method 8270) Surfide* (EPA method 9034) PAC Cyanide (See attached Notes to Lab) Filler by Lab (EPA method 9014) Heavy Dissolve* (EPA method 6010B, 7000A, and 7470A) Dioxin/Furans (EPA method 8290) 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260) Lead (Dissolved)* (EPA method 6010/6020) NATURAL ATTEN* 2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)								LAB USE ONLY					
Project Contact: Chris Kassel Penelope Rabasco Email: Chris.kassel@arcadis.com Penelope.rabasco@arcadis.com			Project # 30120721.4007													LAB USE ONLY													
Phone #: 413-464-2158 (Rabasco) 315-256-5386 (Kassel)			Fax #																										
Sampler(s) Name(s) (Printed)			Client Purchase Order #																										
Sampler 1: Penny Rabasco Sampler 2: Parker Eversoll																													
SGS Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HD	NO3	HSS4	NO3/ZNAC	DI WATER	MEQ	VOCs STAND (EPA method 8260)	PEB (Dissolved) (EPA method 8052)	VOCs STAND (See attached Notes to Lab) (EPA method 8270)	Surfide* (EPA method 9034)	PAC Cyanide (See attached Notes to Lab) Filler by Lab (EPA method 9014) Heavy Dissolve* (EPA method 6010B, 7000A, and 7470A)	Dioxin/Furans (EPA method 8290)	1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260)	Lead (Dissolved)* (EPA method 6010/6020)	NATURAL ATTEN*	2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)	LAB USE ONLY				
1	OPCA-MW-5R	11/4/2022	12:05	PTR	GW	8		X				X			X	X	X	X	X	X									
2	OPCA-MW-7	11/4/2022	13:05	PTR	GW	1						X						X											
2.8	OPCA-MW-4	11/3/2022	17:10	PTR	GW	9		X	X			X			X	X	X	X	X										
3.4	OPCA-MW-2R	11/4/2022	11:00	PTR	GW	8		X	X			X			X	X	X	X	X	X									
4.8	TripBlank-OPCA-5-110322	11/3/2022	--	--	WW	2			X					X															
															INITIAL ASSESSMENT ZB														
															LABEL VERIFICATION [Signature]														
Turnaround Time (Business days)				Data Deliverable Information												Comments / Remarks													
<input checked="" type="checkbox"/> 10 Day (Business) <input type="checkbox"/> 7 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input type="checkbox"/> Other				Approved By: / Date: _____				<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S				CORE EDDS, Refer to Contract for details.				Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)													
Sample Custody must be documented below each time samples change possession, including courier delivery.																													
Relinquished by Sampler/Affiliation					Date Time: 11/4/22 1800					Received By/Affiliation					Relinquished By/Affiliation					Date Time: 1/5/22					Received By/Affiliation				
1 [Signature]										2 [Signature]					3					4									
Relinquished by/Affiliation					Date Time:					Received By/Affiliation					Relinquished By/Affiliation					Date Time:					Received By/Affiliation				
5					6					7					8														
Lab Use Only: Cooler Temperature (s) Celsius: 3.4 IR1, 0.8 IR1																													

6.1 6

SGS North America Inc.

Report of Analysis

Page 1 of 4

Client Sample ID:	OPCA-MW-5R	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-1	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085166.D	1	11/10/22 22:08	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-5R	Date Sampled:	11/04/22
Lab Sample ID:	FC392-1	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzene ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthracene ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamine ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-5R	Date Sampled:	11/04/22
Lab Sample ID:	FC392-1	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	0.93	4.9	0.49	ug/l	J
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-5R	Date Sampled: 11/04/22
Lab Sample ID: FC392-1	Date Received: 11/05/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270E SW846 3510C	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID: OPCA-MW-5R		Date Sampled: 11/04/22
Lab Sample ID: FC392-1F		Date Received: 11/05/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Method: SW846 8082A SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80440.D	1	11/14/22 22:19	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		38-127%
2051-24-3	Decachlorobiphenyl	99%		25-137%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-5R		Date Sampled: 11/04/22
Lab Sample ID: FC392-1F		Date Received: 11/05/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	29.1 J	200	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	1.9 J	5.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	2.6 J	25	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/17/22	11/17/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc ^a	14.2 JB	20	4.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19044
- (2) Instrument QC Batch: MA19047
- (3) Prep QC Batch: MP41477
- (4) Prep QC Batch: MP41491

(a) Analyte detected in the associated filter blank.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

4.2
4

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Report of Analysis

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Client Sample ID:	OPCA-MW-4	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-2	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P95524.D	1	11/17/22 19:01	JL	n/a	n/a	V2P3637
Run #2 ^a	5E35571.D	1	11/21/22 14:21	CF	n/a	n/a	V5E1604

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND	25	14	ug/l	
107-02-8	Acrolein ^c	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^d	ND UJ	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^b	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND UJ	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene ^b	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-4		Date Sampled: 11/04/22 11/03/2022
Lab Sample ID: FC392-2		Date Received: 11/05/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND ^e UJ	50	11	ug/l	
126-98-7	Methacrylonitrile ^b	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate ^d	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.91	1.0	0.35	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	95%	79-125%
2037-26-5	Toluene-D8	103%	98%	85-112%
460-00-4	4-Bromofluorobenzene	103%	97%	83-118%

- (a) Sample re-analyzed beyond hold time.
- (b) Associated CCV outside control limits high, sample is ND.
- (c) Result reported from HCl preserved sample and should be used for screening purposes only.
- (d) Associated CCV and BS recovery outside control limits high, sample is ND.
- (e) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	OPCA-MW-4	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-2	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085167.D	1	11/10/22 22:35	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND UJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND UJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-4	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-2	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-4	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-2	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-4		Date Sampled: 11/04/22 11/04/2022
Lab Sample ID: FC392-2		Date Received: 11/05/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND JJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	63%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	OPCA-MW-4	Date Sampled:	11/04/22 11/04/2022
Lab Sample ID:	FC392-2F	Date Received:	11/05/22
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	MM80441.D	1	11/14/22 22:31	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	0.46	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	0.46	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		38-127%
2051-24-3	Decachlorobiphenyl	106%		25-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 4

Client Sample ID: OPCA-MW-2R		Date Sampled: 11/04/22
Lab Sample ID: FC392-3		Date Received: 11/05/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X085168.D	1	11/10/22 23:01	KA	11/07/22 07:41	OP93942	SX3369
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol ^a	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl ^a	ND JJ	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite ^a	ND JJ	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-2R	Date Sampled:	11/04/22
Lab Sample ID:	FC392-3	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate ^a	ND UJ	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamine)azobenzen ^a	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrac ^a	ND UJ	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine ^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamin ^a	ND	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate ^a	ND UJ	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene ^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-2R	Date Sampled:	11/04/22
Lab Sample ID:	FC392-3	Date Received:	11/05/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND	4.9	1.0	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
120-58-1	Isosafrole ^a	ND UJ	4.9	2.3	ug/l	
91-80-5	Methapyrilene ^a	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene ^a	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND UJ	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine ^a	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine ^a	ND UJ	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine ^a	ND UJ	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine ^a	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine ^a	ND UJ	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine ^a	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine ^a	ND UJ	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothio	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene ^a	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline ^a	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole ^a	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-2R		Date Sampled: 11/04/22
Lab Sample ID: FC392-3		Date Received: 11/05/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine ^a	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS and CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	OPCA-MW-2R		Date Sampled:	11/04/22
Lab Sample ID:	FC392-3F		Date Received:	11/05/22
Matrix:	AQ - Groundwater Filtered		Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C			
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM80443.D	1	11/14/22 22:54	EM	11/08/22 07:53	OP93969	GMM1742
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND UJ	0.38	0.19	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.19	ug/l	
53469-21-9	Aroclor 1242	ND UJ	0.38	0.15	ug/l	
12672-29-6	Aroclor 1248	ND UJ	0.38	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.15	ug/l	
1336-36-3	Total PCBs	ND UJ	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		38-127%
2051-24-3	Decachlorobiphenyl	101%		25-137%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-2R		Date Sampled: 11/04/22
Lab Sample ID: FC392-3F		Date Received: 11/05/22
Matrix: AQ - Groundwater Filtered		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	ND	6.0	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Arsenic	ND	10	1.3	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Barium	23.7 J	200	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Beryllium	ND	4.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Cadmium	ND	5.0	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Chromium	ND	10	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Cobalt	ND	50	0.20	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Copper	ND	25	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Lead	ND	5.0	1.1	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Mercury	ND	0.50	0.030	ug/l	1	11/17/22	11/17/22 JC	SW846 7470A ²	SW846 7470A ⁴
Nickel	ND	40	0.40	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Selenium	ND	10	2.9	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Silver	ND	10	0.70	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Thallium	ND	10	1.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Tin	ND	50	1.0	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Vanadium	ND	50	0.60	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³
Zinc ^a	ND	20	4.4	ug/l	1	11/14/22	11/15/22 LM	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19044
- (2) Instrument QC Batch: MA19047
- (3) Prep QC Batch: MP41477
- (4) Prep QC Batch: MP41491

(a) Analyte detected in the associated filter blank.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

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SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIPBLANK-OPCA-5-110322	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-4	Date Received:	11/05/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P95510.D	1	11/17/22 15:15	JL	n/a	n/a	V2P3637
Run #2 ^a	5E35572.D	1	11/21/22 14:45	CF	n/a	n/a	V5E1604

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^b	ND	25	14	ug/l	
107-02-8	Acrolein ^c	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^c	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^d	ND UJ	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane ^b	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND UJ	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene ^b	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIPBLANK-OPCA-5-110322	Date Sampled:	11/04/22 11/03/2022
Lab Sample ID:	FC392-4	Date Received:	11/05/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND ^e UJ	50	11	ug/l	
126-98-7	Methacrylonitrile ^b	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate ^d	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	92%	79-125%
2037-26-5	Toluene-D8	102%	99%	85-112%
460-00-4	4-Bromofluorobenzene	103%	98%	83-118%

(a) Sample re-analyzed beyond hold time.

(b) Associated CCV outside control limits high, sample is ND.

(c) Result reported from HCl preserved sample and should be used for screening purposes only.

(d) Associated CCV and BS recovery outside control limits high, sample is ND.

(e) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

SGS North America Inc. - Orlando
 4405 Vineland Road, Suite C-15 Orlando, FL 32811
 TEL. 407-425-6700 FAX: 407-425-0707
 www.sgs.com/ehsusa

Client / Reporting Information		Project Information								Requested Analysis (see TEST CODE sheet)								Matrix Codes																																																																																																																																																			
Company Name: SGS North America Inc.		Project Name: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA								<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																																																																																																																											DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL- Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank
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Sample ID: OPCA-MW-5R

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7275	Date Received:	09-Nov-2022
Project ID:	FC392X	Weight/Volume:	1.05 L	Lab Sample ID:	B7275_19641_DF_001-RJ	Date Extracted:	16-Nov-2022
Date Collected:	04-Nov-2022	pH:	7	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	21:22:20
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	6.14			ES 2378-TCDD	96.4	
12378-PeCDD	ND	2.87			ES 12378-PeCDD	117	
123478-HxCDD	ND	2.34			ES 123478-HxCDD	91.8	
123678-HxCDD	ND	2.33			ES 123678-HxCDD	84.8	
123789-HxCDD	ND	2.51			ES 123789-HxCDD	91.1	
1234678-HpCDD	ND	1.83			ES 1234678-HpCDD	102	
OCDD	ND	3.12			ES OCDD	79.6	
2378-TCDF	ND	3			ES 2378-TCDF	102	
12378-PeCDF	ND	1.93			ES 12378-PeCDF	116	
23478-PeCDF	ND	1.82			ES 23478-PeCDF	116	
123478-HxCDF	ND	1.56			ES 123478-HxCDF	85.3	
123678-HxCDF	ND	1.52			ES 123678-HxCDF	80.6	
234678-HxCDF	ND	1.45			ES 234678-HxCDF	86.7	
123789-HxCDF	ND	1.94			ES 123789-HxCDF	96.7	
1234678-HpCDF	ND	1.49			ES 1234678-HpCDF	94.9	
1234789-HpCDF	ND	1.58			ES 1234789-HpCDF	105	
OCDF	ND	3.18			ES OCDF	82.9	
Totals					Standard	CS Recoveries	
Total TCDD	ND	6.14	ND		CS 37CI-2378-TCDD	99.8	
Total PeCDD	ND	2.87	ND		CS 12347-PeCDD	129	
Total HxCDD	ND	2.39	ND		CS 12346-PeCDF	119	
Total HpCDD	ND	1.83	ND		CS 123469-HxCDF	88.2	
					CS 1234689-HpCDF	104	
Total TCDF	ND	3	ND				
Total PeCDF	ND	1.87	ND				
Total HxCDF	ND	1.61	ND				
Total HpCDF	ND	1.53	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	5.15	5.15	5.15				
TEQ: ND=DL	10.3	10.3	10.3				




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Sample ID: OPCA-MW-5R **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7275_19641_DF_001-RJ
Client Project ID:	FC392X	Weight/Volume:	1.05 L	QC Batch No.:	19641
Date Collected:	04-Nov-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	09-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 21:22
Lab Project No:	B7275	Units:	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(6.14)		6.14	(6.14)	(6.14)	(6.14)
12378-PeCDD	(2.87)		2.87	(1.43)	(2.87)	(2.87)
123478-HxCDD	(2.34)		2.34	(0.234)	(0.234)	(0.234)
123678-HxCDD	(2.33)		2.33	(0.233)	(0.233)	(0.233)
123789-HxCDD	(2.51)		2.51	(0.251)	(0.251)	(0.251)
1234678-HpCDD	(1.83)		1.83	(0.0183)	(0.0183)	(0.0183)
OCDD	(3.12)		3.12	(0.00312)	(0.000312)	(0.000936)
2378-TCDF	(3)		3	(0.3)	(0.3)	(0.3)
12378-PeCDF	(1.93)		1.93	(0.0965)	(0.0965)	(0.0579)
23478-PeCDF	(1.82)		1.82	(0.91)	(0.91)	(0.546)
123478-HxCDF	(1.56)		1.56	(0.156)	(0.156)	(0.156)
123678-HxCDF	(1.52)		1.52	(0.152)	(0.152)	(0.152)
234678-HxCDF	(1.45)		1.45	(0.145)	(0.145)	(0.145)
123789-HxCDF	(1.94)		1.94	(0.194)	(0.194)	(0.194)
1234678-HpCDF	(1.49)		1.49	(0.0149)	(0.0149)	(0.0149)
1234789-HpCDF	(1.58)		1.58	(0.0158)	(0.0158)	(0.0158)
OCDF	(3.18)		3.18	(0.00318)	(0.000318)	(0.000954)

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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	5.15	5.87	5.66
	EMPC = 0, ND = DL	10.3	11.7	11.3
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	5.15	5.87	5.66
	EMPC = EMPC, ND = DL	10.3	11.7	11.3
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 402-069-LFT

SGS North America - DF v0.99

Sample ID: OPCA-MW-4

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7275	Date Received:	09-Nov-2022
Project ID:	FC392X	Weight/Volume:	1.05 L	Lab Sample ID:	B7275_19641_DF_002-RJ	Date Extracted:	16-Nov-2022
Date Collected:	04-Nov-2022 03-Nov-2022	pH:	6	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	22:09:55
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	4.73			ES 2378-TCDD	93.3	
12378-PeCDD	ND	2.6			ES 12378-PeCDD	109	
123478-HxCDD	ND	2.92			ES 123478-HxCDD	88.1	
123678-HxCDD	ND	3.01			ES 123678-HxCDD	85.4	
123789-HxCDD	ND	3.18			ES 123789-HxCDD	91	
1234678-HpCDD	ND	2.18			ES 1234678-HpCDD	105	
OCDD	ND	4.36			ES OCDD	81.3	
2378-TCDF	ND	2.9			ES 2378-TCDF	93.4	
12378-PeCDF	ND	2.26			ES 12378-PeCDF	108	
23478-PeCDF	ND	1.97			ES 23478-PeCDF	105	
123478-HxCDF	ND	1.77			ES 123478-HxCDF	82.5	
123678-HxCDF	ND	1.78			ES 123678-HxCDF	80.2	
234678-HxCDF	ND	1.86			ES 234678-HxCDF	84.3	
123789-HxCDF	ND	2.37			ES 123789-HxCDF	96.2	
1234678-HpCDF	ND	1.44			ES 1234678-HpCDF	92.3	
1234789-HpCDF	ND	1.59			ES 1234789-HpCDF	109	
OCDF	ND	3.29			ES OCDF	86.8	
Totals					Standard	CS Recoveries	
Total TCDD	ND	4.73	ND		CS 37CI-2378-TCDD	97.6	
Total PeCDD	ND	2.6	ND		CS 12347-PeCDD	115	
Total HxCDD	ND	3.03	ND		CS 12346-PeCDF	109	
Total HpCDD	ND	2.18	ND		CS 123469-HxCDF	89.1	
					CS 1234689-HpCDF	104	
Total TCDF	ND	2.9	ND				
Total PeCDF	ND	2.12	ND				
Total HxCDF	ND	1.93	ND				
Total HpCDF	ND	1.52	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	4.58	4.58	4.58				
TEQ: ND=DL	9.16	9.16	9.16				



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Checkcode: 513-059-FGL


SGS North America - DF v0.99

Report Created: 05-Dec-2022 10:20 Analyst:

Sample ID: OPCA-MW-4 **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7275_19641_DF_002-RJ
Client Project ID:	FC392X	Weight/Volume:	1.05 L	QC Batch No.:	19641
Date Collected:	04-Nov-2022 03-Nov-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	09-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 22:09
Lab Project No:	B7275	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(4.73)		4.73	(4.73)	(4.73)	(4.73)
12378-PeCDD	(2.6)		2.6	(1.3)	(2.6)	(2.6)
123478-HxCDD	(2.92)		2.92	(0.292)	(0.292)	(0.292)
123678-HxCDD	(3.01)		3.01	(0.301)	(0.301)	(0.301)
123789-HxCDD	(3.18)		3.18	(0.318)	(0.318)	(0.318)
1234678-HpCDD	(2.18)		2.18	(0.0218)	(0.0218)	(0.0218)
OCDD	(4.36)		4.36	(0.00436)	(0.000436)	(0.00131)
2378-TCDF	(2.9)		2.9	(0.29)	(0.29)	(0.29)
12378-PeCDF	(2.26)		2.26	(0.113)	(0.113)	(0.0678)
23478-PeCDF	(1.97)		1.97	(0.984)	(0.984)	(0.59)
123478-HxCDF	(1.77)		1.77	(0.177)	(0.177)	(0.177)
123678-HxCDF	(1.78)		1.78	(0.178)	(0.178)	(0.178)
234678-HxCDF	(1.86)		1.86	(0.186)	(0.186)	(0.186)
123789-HxCDF	(2.37)		2.37	(0.237)	(0.237)	(0.237)
1234678-HpCDF	(1.44)		1.44	(0.0144)	(0.0144)	(0.0144)
1234789-HpCDF	(1.59)		1.59	(0.0159)	(0.0159)	(0.0159)
OCDF	(3.29)		3.29	(0.00329)	(0.000329)	(0.000987)

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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	4.58	5.23	5.01
	EMPC = 0, ND = DL	9.16	10.5	10
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	4.58	5.23	5.01
	EMPC = EMPC, ND = DL	9.16	10.5	10
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 513-059-FGL

SGS North America - DF v0.99

Sample ID: OPCA-MW-2R

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7275	Date Received:	09-Nov-2022
Project ID:	FC392X	Weight/Volume:	1.04 L	Lab Sample ID:	B7275_19641_DF_003-RJ	Date Extracted:	16-Nov-2022
Date Collected:	04-Nov-2022	pH:	6	QC Batch No:	19641	Date Analyzed:	02-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	22:57:28
Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	4.25			ES 2378-TCDD	96	
12378-PeCDD	ND	2.34			ES 12378-PeCDD	112	
123478-HxCDD	ND	2.23			ES 123478-HxCDD	89.4	
123678-HxCDD	ND	2.36			ES 123678-HxCDD	84	
123789-HxCDD	ND	2.41			ES 123789-HxCDD	90.1	
1234678-HpCDD	ND	1.44			ES 1234678-HpCDD	105	
OCDD	EMPC		8.7 JNX	J	ES OCDD	82	
2378-TCDF	ND	2.88			ES 2378-TCDF	98.6	
12378-PeCDF	ND	1.8			ES 12378-PeCDF	108	
23478-PeCDF	ND	1.74			ES 23478-PeCDF	109	
123478-HxCDF	ND	1.75			ES 123478-HxCDF	81.5	
123678-HxCDF	ND	1.62			ES 123678-HxCDF	75.9	
234678-HxCDF	ND	1.6			ES 234678-HxCDF	82.7	
123789-HxCDF	ND	1.98			ES 123789-HxCDF	95.1	
1234678-HpCDF	ND	1.32			ES 1234678-HpCDF	94.3	
1234789-HpCDF	ND	1.36			ES 1234789-HpCDF	103	
OCDF	ND	2.71			ES OCDF	82.4	
Totals					Standard	CS Recoveries	
Total TCDD	ND	4.25	ND		CS 37CI-2378-TCDD	102	
Total PeCDD	ND	2.34	ND		CS 12347-PeCDD	123	
Total HxCDD	ND	2.33	ND		CS 12346-PeCDF	111	
Total HpCDD	ND	1.44	ND		CS 123469-HxCDF	84.6	
					CS 1234689-HpCDF	102	
Total TCDF	ND	2.88	ND				
Total PeCDF	ND	1.77	ND				
Total HxCDF	ND	1.73	ND				
Total HpCDF	ND	1.34	ND				
Total PCDD/Fs	ND		8.7				
ITEF TEQs							
TEQ: ND=0	0		0.0087				
TEQ: ND=DL/2	4.05	4.05	4.06				
TEQ: ND=DL	8.11	8.11	8.12				



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Checkcode: 872-941-XSB


SGS North America - DF v0.99

Report Created: 07-Dec-2022 10:52 Analyst:

Sample ID: OPCA-MW-2R **TEQ Summary** **Method 8290A**

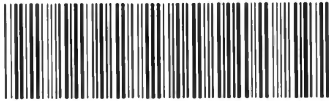
Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7275_19641_DF_003-RJ
Client Project ID:	FC392X	Weight/Volume:	1.04 L	QC Batch No.:	19641
Date Collected:	04-Nov-2022	Split:	-	Date Extracted:	16-Nov-2022
Date Received:	09-Nov-2022	Dilution:	-	Date Analyzed:	02-Dec-2022 22:57
Lab Project No:	B7275	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(4.25)		4.25	(4.25)	(4.25)	(4.25)
12378-PeCDD	(2.34)		2.34	(1.17)	(2.34)	(2.34)
123478-HxCDD	(2.23)		2.23	(0.223)	(0.223)	(0.223)
123678-HxCDD	(2.36)		2.36	(0.236)	(0.236)	(0.236)
123789-HxCDD	(2.41)		2.41	(0.241)	(0.241)	(0.241)
1234678-HpCDD	(1.44)		1.44	(0.0144)	(0.0144)	(0.0144)
OCDD	[8.7]	J	3.21	[0.0087]	[0.00087]	[0.00261]
2378-TCDF	(2.88)		2.88	(0.288)	(0.288)	(0.288)
12378-PeCDF	(1.8)		1.8	(0.09)	(0.09)	(0.054)
23478-PeCDF	(1.74)		1.74	(0.871)	(0.871)	(0.523)
123478-HxCDF	(1.75)		1.75	(0.175)	(0.175)	(0.175)
123678-HxCDF	(1.62)		1.62	(0.162)	(0.162)	(0.162)
234678-HxCDF	(1.6)		1.6	(0.16)	(0.16)	(0.16)
123789-HxCDF	(1.98)		1.98	(0.198)	(0.198)	(0.198)
1234678-HpCDF	(1.32)		1.32	(0.0132)	(0.0132)	(0.0132)
1234789-HpCDF	(1.36)		1.36	(0.0136)	(0.0136)	(0.0136)
OCDF	(2.71)		2.71	(0.00271)	(0.000271)	(0.000812)

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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	4.05	4.64	4.44
	EMPC = 0, ND = DL	8.11	9.27	8.89
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0.0087	0.00087	0.00261
	EMPC = EMPC, ND = DL / 2	4.06	4.64	4.45
	EMPC = EMPC, ND = DL	8.12	9.27	8.89
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 872-941-XSB

SGS North America - DF v0.99



410-104634 Chain of Custody

SGS Accutest Southeast Chain of Custody

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TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

of Coolers 2

SGS ACCUTEST JOB # :

PAGE 1 OF 2

SGS Accutest Quote #	SKIFF #
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Client / Reporting Information		Project Information		Analytical Information								Matrix Codes			
Company Name: Arcadis		Project Name: GE Pittsfield - OPCA		VOCs STAND (EPA method 8260) (See attached Notes to Lab)*	PCBs (Dissolved)* (EPA method 8082)	SVOCs STAND (See attached Notes to Lab)* (EPA method 8270)	Sulfide* (EPA method 9034)	PAC Cyanide (See attached Notes to Lab)* Filter by Lab (EPA method 9014) PREP (DISSOLVER) (EPA method 6010B, 7000A, and 7470A)	Dioxin/Furans (EPA method 8290)	1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260)	Lead (Dissolved)* (EPA method 6010/6020)	NATURAL ATTEN*	2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe	
Address: One Lincoln Center 110 W Fayette St, Suite 300		Street 158 Plastics Ave													
City: Syracuse	State: NY	Zip: 13202	City: Pittsfield												State: MA
Project Contact: Chris Kassel Penelope Rabasco Email: Chris.kassel@arcadis.com Penelope.rabasco@arcadis.com		Project # 30120721.4007													
Phone #: 413-464-2158 (Rabasco) 315-256-5386 (Kassel)		Fax #													
Sampler(s) Name(s) (Printed)		Client Purchase Order #													

SGS Accutest Sample #	Field ID / Point of Collection	COLLECTION		SAMPLED BY:	CONTAINER INFORMATION											VOCs STAND (EPA method 8260) (See attached Notes to Lab)*	PCBs (Dissolved)* (EPA method 8082)	SVOCs STAND (See attached Notes to Lab)* (EPA method 8270)	Sulfide* (EPA method 9034)	PAC Cyanide (See attached Notes to Lab)* Filter by Lab (EPA method 9014) PREP (DISSOLVER) (EPA method 6010B, 7000A, and 7470A)	Dioxin/Furans (EPA method 8290)	1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260)	Lead (Dissolved)* (EPA method 6010/6020)	NATURAL ATTEN*	2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)	LAB USE ONLY
		DATE	TIME		MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HO	H2O	HO3	HO4	MAOH/ZMAC	DI WATER	MEOH											
	OPCA-MW-5R	11/4/2022	12:05	PTR	GW	8		X				X			X	X	X	X	X							
	OPCA-MW-7	11/4/2022	13:05	PTR	GW	1					X				X											
	OPCA-MW-4	11/3/2022	17:10	PTR	GW	9		X	X			X		X	X	X			X							
	OPCA-MW-2R	11/4/2022	11:00	PTR	GW	8		X	X			X		X	X	X	X	X	X							
	TripBlank-OPCA-5-110322	11/3/2022	--	--	WW	2				X					X											

Turnaround Time (Business days)		Data Deliverable Information		Comments / Remarks	
X 10 Day (Business) Approved By: / Date: 7 Day 5 Day 3 Day RUSH _____ 2 Day RUSH _____ 1 Day RUSH _____ Other _____ Rush T/A Data Available VIA Email or Lablink	<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S CORE EDDS, Refer to Contract for details.			Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)	

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 <i>Penny Rabasco</i>	11/4/22 1800	2	3		4
5		6	7	11-5-22 1055	8 <i>to Pen ELLE</i>

Lab Use Only : Cooler Temperature (s) Celsius: 2.3 Page 38 of 40

449 of 1723

W.M.



Client Sample Results

Client: SGS North America Inc
 Project/Site: GE Pittsfield - OPCA

Job ID: 410-104634-1

Client Sample ID: OPCA-MW-5R

Lab Sample ID: 410-104634-1

Date Collected: 11/04/22 12:05

Matrix: Water

Date Received: 11/05/22 10:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	ND		2.0	0.70	mg/L			11/11/22 07:29	1

Client Sample ID: OPCA-MW-4

Lab Sample ID: 410-104634-3

Date Collected: 11/03/22 17:10

Matrix: Water

Date Received: 11/05/22 10:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	ND		2.0	0.70	mg/L			11/08/22 08:22	1

Client Sample ID: OPCA-MW-2R

Lab Sample ID: 410-104634-4

Date Collected: 11/04/22 11:00

Matrix: Water

Date Received: 11/05/22 10:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	ND		2.0	0.70	mg/L			11/11/22 07:29	1



Project Name: GE PITTSFIELD-OPCA
Project Number: FC392X

Lab Number: L2262242
Report Date: 11/18/22

SAMPLE RESULTS

Lab ID: L2262242-01
 Client ID: OPCA-MW-5R
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/04/22 12:05
 Date Received: 11/04/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 16:06	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC392X

Lab Number: L2262242
Report Date: 11/18/22

SAMPLE RESULTS

Lab ID: L2262242-02
 Client ID: OPCA-MW-2R
 Sample Location: 159 PLASTICS AVE PITTSFIELD MA

Date Collected: 11/04/22 11:00
 Date Received: 11/04/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 16:07	64,9014(M)	JER



Project Name: GE PITTSFIELD-OPCA
Project Number: FC392X

Lab Number: L2262242
Report Date: 11/18/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1710327-1										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	11/10/22 02:25	11/10/22 15:52	64,9014(M)	JER





ACCUTEST

SGS Accutest Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-8700 FAX: 407-425-0707
www.accutest.com

L2262242

of Coolers 2

SGS ACCUTEST JOB #:

PAGE 1 OF 2

Client / Reporting Information			Project Information			SGS Accutest Quote #										SKIFF #													
Company Name: Arcadis			Project Name: GE Pittsfield - OPCA			Analytical Information										Matrix Codes													
Address: One Lincoln Center 110 W Fayette St, Suite 300			Street: 159 Plastics Ave			VOCs STAND (EPA method 8260) (See attached Notes to Lab)*										DW - Drinking Water													
City: Syracuse State: NY Zip: 13202			City: Pittsfield State: MA			PCBs (Dissolved)* (EPA method 8062)										GW - Ground Water													
Project Contact: Chris Kassel Penelope Rabasco Email: Chris.kassel@arcadis.com Penelope.rabasco@arcadis.com			Project # 30120721.4007			SVOCs STAND (See attached Notes to Lab)* (EPA method 8270)										WW - Water													
Phone #: 413-464-2158 (Rabasco) 315-256-5386 (Kassel)			Fax #			Sulfide* (EPA method 9034)										SW - Surface Water													
Sampler(s) Name(s) (Printed)			Client Purchase Order #			PAC Cyanide (See attached Notes to Lab)* Filter by Lab (EPA method 9014) metals (EPA method 8210)										SO - Soil													
Sampler 1: Penny Rabasco Sampler 2: Parker Eversoll						Dioxin/Furans (EPA method 8290)										SL - Sludge													
						1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260)										OI - Oil													
						Lead (Dissolved)* (EPA method 6010/6020)										LIQ - Other Liquid													
						NATURAL ATTEN*										AIR - Air													
						2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)										SOL - Other Solid													
																WP - Wipe													
																LAB USE ONLY													
SGS Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	PH	NaOH	PH03	H2SO4	NaOH/ZnAC	DI WATER	MEOH	VOCs STAND (EPA method 8260) (See attached Notes to Lab)*	PCBs (Dissolved)* (EPA method 8062)	SVOCs STAND (See attached Notes to Lab)* (EPA method 8270)	Sulfide* (EPA method 9034)	PAC Cyanide (See attached Notes to Lab)* Filter by Lab (EPA method 9014) metals (EPA method 8210)	Dioxin/Furans (EPA method 8290)	1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260)	Lead (Dissolved)* (EPA method 6010/6020)	NATURAL ATTEN*	2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)				
OPCA-MW-5R		11/4/2022	12:05	PTR	GW	8		X					X			X	X	X	X	X	X								
OPCA-MW-7		11/4/2022	13:05	PTR	GW	1							X						X										
OPCA-MW-4		11/3/2022	17:10	PTR	GW	9		X	X				X			X	X	X	X										
OPCA-MW-2R		11/4/2022	11:00	PTR	GW	8		X	X				X			X	X	X	X										
TripBlank-OPCA-5-110322		11/3/2022	--	--	WW	2			X							X													
Turnaround Time (Business days)					Data Deliverable Information										Comments / Remarks														
<input checked="" type="checkbox"/> 10 Day (Business) Approved By: / Date: _____ <input type="checkbox"/> 7 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input type="checkbox"/> Other _____ Rush T/A Data Available VIA Email or Lablink					<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S CORE EDDS, Refer to Contract for details.										Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)														
Sample Custody must be documented below each time samples change possession, including courier delivery.																													
Relinquished by Sampler/Affiliation					Date Time: 11/4/22 18:00					Received By/Affiliation					Date Time: 11/4/22 18:00					Received By/Affiliation									
Relinquished by/Affiliation					Date Time: _____					Received By/Affiliation					Date Time: _____					Received By/Affiliation									
Relinquished by/Affiliation					Date Time: _____					Received By/Affiliation					Date Time: _____					Received By/Affiliation									
Relinquished by/Affiliation					Date Time: _____					Received By/Affiliation					Date Time: _____					Received By/Affiliation									

Client / Reporting Information		Project Information		Analytical Information												Matrix Codes													
Company Name: Arcadis Address: One Lincoln Center 110 W Fayette St, Suite 300 City: Syracuse State: NY Zip: 13202 Project Contact: Chris Kassel Penelope Rabasco Email: Chris.Kassel@arcadis.com Penelope.rabasco@arcadis.com Phone #: 413-464-2158 (Rabasco) 315-256-5386 (Kassel) Sampler(s) Name(s) (Printed) Sampler 1: Penny Rabasco Sampler 2: Parker Eversoll		Project Name: GE Pittsfield - OPCA Street: 159 Plastics Ave City: Pittsfield State: MA Project #: 30120721.4007 Fax #: Client Purchase Order #:		SGS Accutest Quote # SKIFF # VOCs STAND (EPA method 8260) Metals (Dissolved)* (EPA method 8092) SVOCs STAND (See attached Notes to Lab)* (EPA method 8270) Sulfides* (EPA method 9034) PAC Cyanide (See attached Notes to Lab)* Filter by Lab (EPA method 9014) Pesticides (Dissolved) (EPA method 6010B, 7000A, and 7470A) Dioxin/Furans (EPA method 8299) 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8280) Lead (Dissolved)* (EPA method 6010.6020) NATURAL ATTEN* 2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe													
SGS Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NACH	INOS	HRSD4	NACHZNAC	DI WATER	MEOH	VOCs STAND (EPA method 8260)	Metals (Dissolved)* (EPA method 8092)	SVOCs STAND (See attached Notes to Lab)* (EPA method 8270)	Sulfides* (EPA method 9034)	PAC Cyanide (See attached Notes to Lab)* Filter by Lab (EPA method 9014)	Pesticides (Dissolved) (EPA method 6010B, 7000A, and 7470A)	Dioxin/Furans (EPA method 8299)	1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8280)	Lead (Dissolved)* (EPA method 6010.6020)	NATURAL ATTEN*	2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)	LAB USE ONLY		
1	OPCA-MW-7	11/5/2022	16:30	PTR	GW	2		X									X												
2	OPCA-MW-7	11/8/2022	16:30	PTR	GW	2		X									X												
3	OPCA-MW-7	11/9/2022	17:30	PTR	GW	1		X																					
																INITIAL ASSESSMENT													
																LABEL VERIFICATION													
Turnaround Time (Business days) <input checked="" type="checkbox"/> 10 Day (Business) Approved By: / Date: _____ <input type="checkbox"/> 7 Day _____ <input type="checkbox"/> 5 Day _____ <input type="checkbox"/> 3 Day RUSH _____ <input type="checkbox"/> 2 Day RUSH _____ <input type="checkbox"/> 1 Day RUSH _____ Other _____ Rush T/A Data Available VIA Email or LabLink				Data Deliverable Information <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S CORE EDDS, Refer to Contract for details.												Comments / Remarks Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)													
Sample Custody must be documented below each time samples change possession, including courier delivery.																													
Relinquished by Sampler/Affiliation		Date Time:		Received By/Affiliation		11/5/22		Relinquished By/Affiliation		Date Time:		Received By/Affiliation		11/4/22 18:02		3		Date Time:		4		Received By/Affiliation							
1				3		a30		5				6		7				8				8							
Lab Use Only : Cooler Temperature (s) Celsius: <u>4.8</u> <u>1R#1</u> , <u>5.0</u>																													

6.1
6

SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID: OPCA-MW-7		
Lab Sample ID: FC571-1F		Date Sampled: 11/05/22
Matrix: AQ - Groundwater Filtered		Date Received: 11/15/22
Method: SW846 8082A SW846 3510C		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	MM80509.D	1	11/17/22 19:56	EM	11/16/22 08:00	OP94104	GMM1744
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221 ^b	ND JJ	0.40	0.20	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.20	ug/l	
53469-21-9	Aroclor 1242	ND JJ	0.40	0.16	ug/l	
12672-29-6	Aroclor 1248	ND JJ	0.40	0.16	ug/l	
11097-69-1	Aroclor 1254	0.54	0.40	0.16	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.16	ug/l	
1336-36-3	Total PCBs	0.54	0.40	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		38-127%
2051-24-3	Decachlorobiphenyl	95%		25-137%

(a) All hits confirmed by dual column analysis.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 4

Client Sample ID:	OPCA-MW-7	Date Sampled:	11/08/22
Lab Sample ID:	FC571-2	Date Received:	11/15/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X085261.D	1	11/17/22 11:45	KA	11/16/22 09:04	OP94115	SX3374
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
59-50-7	4-Chloro-3-methyl Phenol	ND UJ	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
98-86-2	Acetophenone	ND	4.9	0.79	ug/l	
53-96-3	2-Acetylaminofluorene	ND	4.9	0.73	ug/l	
92-67-1	4-Aminobiphenyl	ND	4.9	0.79	ug/l	
62-53-3	Aniline	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
140-57-8	Aramite	ND	9.8	2.0	ug/l	
92-87-5	Benzidine	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-7	Date Sampled:	11/08/22
Lab Sample ID:	FC571-2	Date Received:	11/15/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl Benzyl Phthalate	ND UJ	4.9	0.98	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
510-15-6	Chlorobenzilate	ND	4.9	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
2303-16-4	Diallate	ND	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
60-11-7	p-(Dimethylamino)azobenzene	ND	4.9	0.98	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	ND	4.9	0.98	ug/l	
119-93-7	3,3'-Dimethylbenzidine^b	ND	9.8	2.8	ug/l	R
122-09-8	A,A-Dimethylphenethylamine	ND UJ	25	4.9	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
99-65-0	m-Dinitrobenzene	ND	4.9	0.89	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
122-39-4	Diphenylamine	ND	4.9	0.79	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.75	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
62-50-0	Ethyl Methanesulfonate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^c	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
70-30-4	Hexachlorophene^c	ND	98	49	ug/l	R
1888-71-7	Hexachloropropene	ND UJ	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND UJ	4.9	0.70	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OPCA-MW-7		Date Sampled: 11/08/22
Lab Sample ID: FC571-2		Date Received: 11/15/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
465-73-6	Isodrin	ND UJ	4.9	1.0	ug/l	
78-59-1	Isophorone	ND ↓	4.9	0.76	ug/l	
120-58-1	Isosafrole	ND ↓	4.9	2.3	ug/l	
91-80-5	Methapyrilene	ND	20	3.9	ug/l	R
56-49-5	3-Methylcholanthrene	ND UJ	4.9	0.99	ug/l	
66-27-3	Methyl Methanesulfonate	ND	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
130-15-4	1,4-Naphthoquinone	ND	4.9	0.71	ug/l	
134-32-7	1-Naphthylamine	ND	4.9	1.1	ug/l	
91-59-8	2-Naphthylamine	ND	4.9	1.2	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	4.9	1.2	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	4.9	0.85	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.49	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	4.9	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	4.9	0.96	ug/l	
59-89-2	N-Nitrosomorpholine	ND	4.9	0.86	ug/l	
100-75-4	N-Nitrosopiperidine	ND	4.9	1.1	ug/l	
930-55-2	N-Nitrosopyrrolidine	ND	4.9	1.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide ^c	ND	20	4.9	ug/l	
126-68-1	O,O,O-Triethyl Phosphorothi ^c	ND	4.9	0.98	ug/l	
608-93-5	Pentachlorobenzene	ND	4.9	3.1	ug/l	
76-01-7	Pentachloroethane	ND	4.9	3.4	ug/l	
82-68-8	Pentachloronitrobenzene	ND	4.9	1.5	ug/l	
62-44-2	Phenacetin	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
106-50-3	p-Phenylenediamine	ND	49	9.8	ug/l	
109-06-8	2-Picoline	ND	4.9	0.98	ug/l	
23950-58-5	Pronamide	ND	4.9	1.3	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	ug/l	
94-59-7	Safrole	ND	4.9	1.6	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4.9	0.49	ug/l	
297-97-2	Thionazin	ND ↓	4.9	0.98	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: OPCA-MW-7		Date Sampled: 11/08/22
Lab Sample ID: FC571-2		Date Received: 11/15/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270E SW846 3510C		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

ABN Appendix IX Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-53-4	o-Toluidine	ND UJ	4.9	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND ↓	4.9	1.0	ug/l	
99-35-4	sym-Trinitrobenzene	ND ↓	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

- (a) Sample extracted beyond hold time.
- (b) Associated BS outside control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

B7350

FC571-3
Bot # 1
SUB

FC571-3 N/P
Bot #
SUB

CHAIN OF CUSTODY

SGS North America Inc. - Orlando
Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # FC571X

Client / Reporting Information

Company Name: **SGS North America Inc.**

Project Name: **GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA**

Street Address: **4405 Vineland Rd, Suite C-15**

City: **Orlando** State: **FL** Zip: **32811**

Project Contact: **ariel.hartney@sgs.com**

Phone #: **407-425-6700**

Sampler(s) Name(s): **PR**

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection		Sampled by	Matrix	# of bottles	Number of preserved Bottles			Requested Analysis (see TEST CODE sheet)	Matrix Codes
			Date	Time				None				
3X	OPCA-MW-7		11/9/22	5:30:00 PM	PR	AQ				(2) 1L AG	X	

Matrix Codes: DW - Drinking Water, GW - Ground Water, W/W - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank

B8290TODDF

LAB USE ONLY

Turnaround Time (Business days)

Approved By (SGS PM) / Date:

Standard 10 Day (business)
 5 Business Days RUSH
 3 Business Days RUSH
 2 Business Days RUSH
 1 Business Day EMERGENCY
 other **Due 11/29/2022**

Data Deliverable Information

Commercial "A" (Level 1)
 Commercial "B" (Level 2)
 REDT1 (Level 3)
 FULL1 (Level 4)
 Commercial "C"

State Forms
 EDD Format
 Other

Commercial "A" = Results Only
 Commercial "B" = Results + QC Summary
 Commercial "C" = Results + QC Summary + Partial Raw data

Send to SGS Wilmington

<http://www.sgs.com/en/terms-and-conditions>

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By: <i>Carla A. DeGard</i>	Date Time: 11/29/22	Received By: <i>Carla A. DeGard</i>	Date Time: 11/29 10:54	Relinquished By: 2	Date Time:	Received By: 2
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:
14 of 301	Preserved where applicable		Therm. ID: 1R4		On Ice <input checked="" type="checkbox"/>	Cooler Temp. 3.8°C

Intact Not intact



Sample ID: OPCA-MW-7

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Project ID:	B7350	Date Received:	29-Nov-2022
Project ID:	FC571X	Weight/Volume:	1.05 L	Lab Sample ID:	B7350_19686_DF_001	Date Extracted:	05-Dec-2022
Date Collected:	09-Nov-2022	pH:	7	QC Batch No:	19686	Date Analyzed:	09-Dec-2022
		Split:	-	Dilution:	-	Time Analyzed:	21:21:35

Analyte	Conc. (pg/L)	DL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	1.59			ES 2378-TCDD	92.5	
12378-PeCDD	ND	1.88			ES 12378-PeCDD	87.6	
123478-HxCDD	ND	1.45			ES 123478-HxCDD	93	
123678-HxCDD	ND	1.56			ES 123678-HxCDD	93	
123789-HxCDD	ND	1.56			ES 123789-HxCDD	91.4	
1234678-HpCDD	19.3			J	ES 1234678-HpCDD	91.7	
OCDD	109				ES OCDD	105	
2378-TCDF	ND	0.891			ES 2378-TCDF	85.8	
12378-PeCDF	ND	1.19			ES 12378-PeCDF	93.3	
23478-PeCDF	ND	1.11			ES 23478-PeCDF	91.1	
123478-HxCDF	4.44			J	ES 123478-HxCDF	90.1	
123678-HxCDF	EMPC		2.19 JNX	J	ES 123678-HxCDF	92.2	
234678-HxCDF	EMPC		2.44 JNX	J	ES 234678-HxCDF	93	
123789-HxCDF	ND	0.874			ES 123789-HxCDF	88.2	
1234678-HpCDF	EMPC		10 JNX	J	ES 1234678-HpCDF	95.2	
1234789-HpCDF	EMPC		1.66 JNX	J	ES 1234789-HpCDF	91.6	
OCDF	14.3			J	ES OCDF	96.2	
Totals					Standard	CS Recoveries	
Total TCDD	ND	1.59	ND		CS 37CI-2378-TCDD	92.7	
Total PeCDD	ND	1.88	ND		CS 12347-PeCDD	95.7	
Total HxCDD	ND		8.99		CS 12346-PeCDF	96.7	
Total HpCDD	37.7		37.7		CS 123469-HxCDF	96	
					CS 1234689-HpCDF	95.7	
Total TCDF	ND	0.891	ND				
Total PeCDF	ND		4.8				
Total HxCDF	24.2		28.8				
Total HpCDF	ND		17.9				
Total PCDD/Fs	185		222				
ITEF TEQs							
TEQ: ND=0	0.761		1.34				
TEQ: ND=DL/2	2.65	2.02	3.23				
TEQ: ND=DL	4.55	4.04	5.13				




5500 Business Drive
Wilmington, NC 28405, USA
www.us.sgs.com

Tel: +1 910 794-1613; Toll-Free 866 846-8290

Sample ID: OPCA-MW-7 **TEQ Summary** **Method 8290A**

Client Project Name:	SGS North America Inc.	Matrix:	Aqueous	Lab Sample ID:	B7350_19686_DF_001
Client Project ID:	FC571X	Weight/Volume:	1.05 L	QC Batch No.:	19686
Date Collected:	09-Nov-2022	Split:	-	Date Extracted:	05-Dec-2022
Date Received:	29-Nov-2022	Dilution:	-	Date Analyzed:	09-Dec-2022 21:21
Lab Project No:	B7350	Units	pg/L		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(1.59)		1.59	(1.59)	(1.59)	(1.59)
12378-PeCDD	(1.88)		1.88	(0.939)	(1.88)	(1.88)
123478-HxCDD	(1.45)		1.45	(0.145)	(0.145)	(0.145)
123678-HxCDD	(1.56)		1.56	(0.156)	(0.156)	(0.156)
123789-HxCDD	(1.56)		1.56	(0.156)	(0.156)	(0.156)
1234678-HpCDD	19.3	J	1.06	0.193	0.193	0.193
OCDD	109		2.01	0.109	0.0109	0.0327
2378-TCDF	(0.891)		0.891	(0.0891)	(0.0891)	(0.0891)
12378-PeCDF	(1.19)		1.19	(0.0593)	(0.0593)	(0.0356)
23478-PeCDF	(1.11)		1.11	(0.557)	(0.557)	(0.334)
123478-HxCDF	4.44	J	0.742	0.444	0.444	0.444
123678-HxCDF	[2.19]	J	0.726	[0.219]	[0.219]	[0.219]
234678-HxCDF	[2.44]	J	0.805	[0.244]	[0.244]	[0.244]
123789-HxCDF	(0.874)		0.874	(0.0874)	(0.0874)	(0.0874)
1234678-HpCDF	[10]	J	0.631	[0.1]	[0.1]	[0.1]
1234789-HpCDF	[1.66]	J	0.753	[0.0166]	[0.0166]	[0.0166]
OCDF	14.3	J	1.44	0.0143	0.00143	0.00428

5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 www.us.sgs.com 	TEQ Summaries			
	EMPC = 0, ND = 0	0.761	0.65	0.674
	EMPC = 0, ND = DL / 2	2.65	3.01	2.91
	EMPC = 0, ND = DL	4.55	5.37	5.15
	EMPC = 0, < J-level = 0	0.109	0.0109	0.0327
	EMPC = EMPC, ND = 0	1.34	1.23	1.25
	EMPC = EMPC, ND = DL / 2	3.23	3.59	3.49
	EMPC = EMPC, ND = DL	5.13	5.95	5.73
EMPC = EMPC, < J-level = 0	0.109	0.0109	0.0327	

Checkcode: 232-412-BGB

SGS North America - DF v0.99

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

Client / Reporting Information, Project Information, Analytical Information, Matrix Codes, Turnaround Time, Data Deliverable Information, Comments / Remarks, Relinquished by Sampler/Affiliation, Date Time, Received By/Affiliation, Lab Use Only.

5.1 5

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: GMA4-6		Date Sampled: 12/01/22
Lab Sample ID: FC995-1		Date Received: 12/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96184.D	1	12/08/22 15:32	CF	n/a	n/a	V2P3656
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	53.9	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND UJ	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GMA4-6	Date Sampled:	12/01/22
Lab Sample ID:	FC995-1	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide ^c	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
 (b) Associated CCV outside control limits high, sample is ND.
 (c) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: OPCA-MW-7		
Lab Sample ID: FC995-2		Date Sampled: 12/01/22
Matrix: AQ - Ground Water		Date Received: 12/03/22
Method: SW846 8260D		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96186.D	1	12/08/22 16:04	CF	n/a	n/a	V2P3656
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	40.0	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND UJ	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-7	Date Sampled:	12/01/22
Lab Sample ID:	FC995-2	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide ^c	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
 (b) Associated CCV outside control limits high, sample is ND.
 (c) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: OPCA-MW-2R		Date Sampled: 12/01/22
Lab Sample ID: FC995-3		Date Received: 12/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96188.D	1	12/08/22 16:35	CF	n/a	n/a	V2P3656
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND UJ	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-2R	Date Sampled:	12/01/22
Lab Sample ID:	FC995-3	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide ^c	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
 (b) Associated CCV outside control limits high, sample is ND.
 (c) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	OPCA-DUP-2-120122	Date Sampled:	12/01/22
Lab Sample ID:	FC995-4	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96190.D	1	12/08/22 17:07	CF	n/a	n/a	V2P3656
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND UJ	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-DUP-2-120122	Date Sampled:	12/01/22
Lab Sample ID:	FC995-4	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide ^c	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
 (b) Associated CCV outside control limits high, sample is ND.
 (c) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID: OPCA-MW-5R		Date Sampled: 12/01/22
Lab Sample ID: FC995-5		Date Received: 12/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96192.D	1	12/08/22 17:39	CF	n/a	n/a	V2P3656
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	33.6	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND UJ	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OPCA-MW-5R	Date Sampled:	12/01/22
Lab Sample ID:	FC995-5	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide ^c	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND UJ	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
 (b) Associated CCV outside control limits high, sample is ND.
 (c) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	TRIPBLANK-OPCA-1-120122	Date Sampled:	12/01/22
Lab Sample ID:	FC995-6	Date Received:	12/03/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P96168.D	1	12/08/22 11:21	CF	n/a	n/a	V2P3656
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	25	14	ug/l	
107-02-8	Acrolein ^a	ND	20	6.1	ug/l	
107-13-1	Acrylonitrile ^a	ND	10	2.1	ug/l	
107-05-1	Allyl Chloride ^b	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform ^b	ND UJ	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIPBLANK-OPCA-1-120122	
Lab Sample ID: FC995-6	Date Sampled: 12/01/22
Matrix: AQ - Trip Blank Water	Date Received: 12/03/22
Method: SW846 8260D	Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide ^c	ND UJ	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	109%		83-118%

- (a) Result reported from HCl preserved sample and should be used for screening purposes only.
- (b) Associated CCV outside control limits high, sample is ND.
- (c) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6
4



ACCUTEST

SGS Accutest Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

FC996

of Coolers 1

SGS ACCUTEST JOB #:

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Client / Reporting Information		Project Information		SGS Accutest Quote #										SKIFF #		
Company Name: Arcadis Address: One Lincoln Center 110 W Fayette St, Suite 300 City: Syracuse State: NY Zip: 13202 Project Contact: Penelope Rabasco Penelope.rabasco@arcadis.com Chris Kassel Chris.kassel@arcadis.com Phone #: 413-464-2158 (Rabasco) 315-258-5386 (Kassel) Sampler(s) Name(s) (Printed) Sampler 1: Penny Rabasco Sampler 2: Gregg Rabasco		Project Name: GE Pittsfield - GMA4 Street: 159 Pittsfield Ave City: Pittsfield State: MA Project #: 30120721.4004 Fax #: Client Purchase Order #:		Analytical Information VOCs 6 STAND (EPA method 8260) Pesticides (Dissolved) (See attached Notes to Lab) (EPA method 8082) VOCs 8 STAND (See attached Notes to Lab) (EPA method 8271) Sulfide* (EPA method 9034) PAC Cyanide (See attached Notes to Lab) Filler by Lab (EPA method 9014) (Waters/Crossflow) (EPA method 6010B, 7000A, and 7470A) Dioxin/Furans (EPA method 8290) 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene* (EPA method 8260) Lead (Dissolved)* (EPA method 60106/620) NATURAL ATTEN* 2-CHLOROPHENOL and 4-CHLOROPHENOL* (EPA method 8270D)										Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe		
SGS Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH/NaAC	DI WATER	MECH	LAB USE ONLY
1	H78B-16	12/1/2022	16:30	PTR	GW	3			X							
2	GMA4-7S	12/1/2022	16:50	PTR	GW	3			X							
3	GMA4-8	12/1/2022	15:30	PTR	GW	3			X							
4	GMA4-9 MS/MSD	12/1/2022	15:00	PTR	GW	6			X							
4	GMA4-9	12/1/2022	15:00	PTR	GW	3			X							
5	GMA4-DUP-1-120122	12/1/2022	---	PTR	GW	3			X							
6	TripBlank-GMA4-1-120122	12/1/2022	---	PTR	WW	2			X							
INITIAL ASSESSMENT <u>TR</u>																
LABEL VERIFICATION <u>ZB</u>																
Turnaround Time (Business days)				Data Deliverable Information										Comments / Remarks		
<input checked="" type="checkbox"/> 10 Day (Business) <input type="checkbox"/> 7 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH Other _____ Rush T/A Data Available VIA Email or LabLink		Approved By / Date: _____		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S CORE EDDS, Refer to Contract for details.										Please see attached "NOTES TO LAB" Lab to do all filtering Please note, 17 site-specific dissolved metals are listed in the contract. PAC and Sulfide volume sent to subcontract lab (Alpha Analytical & Eurofins/TA)		
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by Sampler/Affiliation <u>1 Penny Rabasco</u>	Date Time: <u>12/1/22 1630</u>	Received By/Affiliation <u>2 hml mmi</u>	Date Time: <u>12/3/22 930</u>	Relinquished By/Affiliation <u>3</u>	Date Time:	Received By/Affiliation <u>4</u>										
Relinquished by/Affiliation <u>5</u>	Date Time:	Received By/Affiliation <u>6</u>	Date Time:	Relinquished By/Affiliation <u>7</u>	Date Time:	Received By/Affiliation <u>8</u>										
Lab Use Only: Cooler Temperature (s) Celsius: <u>1.4 C/37A</u>																

5.1
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SGS North America Inc.

Report of Analysis

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Client Sample ID: H78B-16	Date Sampled: 12/01/22
Lab Sample ID: FC996-1	Date Received: 12/03/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I753456.D	5	12/09/22 14:32	KG	n/a	n/a	VI2782
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
75-05-8	Acetonitrile ^a	ND	130	72	ug/l	
107-02-8	Acrolein ^b	ND UJ	100	30	ug/l	
107-13-1	Acrylonitrile ^b	ND UJ	50	10	ug/l	
107-05-1	Allyl Chloride	ND	10	1.3	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane ^c	ND	10	3.3	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	ND	25	11	ug/l	R
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
126-99-8	Chloroprene	ND	25	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	5.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	1.4	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND UJ	10	2.5	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	50	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.6	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/l	
123-91-1	1,4-Dioxane ^a	ND	1000	380	ug/l	R
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
97-63-2	Ethyl Methacrylate	ND	25	2.5	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H78B-16	Date Sampled: 12/01/22
Lab Sample ID: FC996-1	Date Received: 12/03/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	250	57	ug/l	
126-98-7	Methacrylonitrile	ND	100	25	ug/l	
74-83-9	Methyl Bromide	ND	25	10	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
74-88-4	Methyl Iodide	ND UJ	25	10	ug/l	
80-62-6	Methyl Methacrylate	ND	25	3.5	ug/l	
74-95-3	Methylene Bromide	ND	10	1.8	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
107-12-0	Propionitrile ^d	ND UJ	100	25	ug/l	
100-42-5	Styrene	ND	5.0	1.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
127-18-4	Tetrachloroethylene	2.3	5.0	1.1	ug/l	J
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	205	5.0	1.7	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	3.2	ug/l	
108-05-4	Vinyl Acetate	ND	50	10	ug/l	
75-01-4	Vinyl Chloride	ND	5.0	2.0	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

- (a) Associated CCV outside control limits low.
- (b) Result reported from HCl preserved sample and should be used for screening purposes only.
- (c) Associated CCV outside control limits high, sample is ND.
- (d) Associated BS recovery outside control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID: GMA4-7S		
Lab Sample ID: FC996-2		Date Sampled: 12/01/22
Matrix: AQ - Ground Water		Date Received: 12/03/22
Method: SW846 8260D		Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I753457.D	1	12/09/22 14:56	KG	n/a	n/a	VI2782
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10.2	25	10	ug/l	J
75-05-8	Acetonitrile ^a	ND	25	14	ug/l	
107-02-8	Acrolein ^b	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^b	ND UJ	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND UJ	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane ^a	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GMA4-7S	Date Sampled:	12/01/22
Lab Sample ID:	FC996-2	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND UJ	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile ^d	ND UJ	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated CCV outside control limits low.

(b) Result reported from HCl preserved sample and should be used for screening purposes only.

(c) Associated CCV outside control limits high, sample is ND.

(d) Associated BS recovery outside control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: GMA4-8		Date Sampled: 12/01/22
Lab Sample ID: FC996-3		Date Received: 12/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1753458.D	1	12/09/22 15:19	KG	n/a	n/a	VI2782
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.9	25	10	ug/l	J
75-05-8	Acetonitrile ^a	ND	25	14	ug/l	
107-02-8	Acrolein ^b	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^b	ND UJ	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND UJ	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane ^a	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GMA4-8	
Lab Sample ID: FC996-3	Date Sampled: 12/01/22
Matrix: AQ - Ground Water	Date Received: 12/03/22
Method: SW846 8260D	Percent Solids: n/a
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND UJ	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile ^d	ND UJ	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

- (a) Associated CCV outside control limits low.
- (b) Result reported from HCl preserved sample and should be used for screening purposes only.
- (c) Associated CCV outside control limits high, sample is ND.
- (d) Associated BS recovery outside control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID: GMA4-9		Date Sampled: 12/01/22
Lab Sample ID: FC996-4		Date Received: 12/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I753459.D	2	12/09/22 15:43	KG	n/a	n/a	VI2782
Run #2 ^a	O73040.D	1	12/14/22 17:09	AL	n/a	n/a	VO2870

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	26.8	50	20	ug/l	J
75-05-8	Acetonitrile ^b	ND	50	29	ug/l	
107-02-8	Acrolein ^c	ND UJ	40	12	ug/l	
107-13-1	Acrylonitrile ^c	ND UJ	20	4.2	ug/l	
107-05-1	Allyl Chloride	ND	4.0	0.51	ug/l	
71-43-2	Benzene	ND	2.0	0.62	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.48	ug/l	
75-25-2	Bromoform	ND	2.0	0.81	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.0	ug/l	
75-15-0	Carbon Disulfide	ND	4.0	1.1	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.0	0.71	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.40	ug/l	
75-00-3	Chloroethane ^d	ND	4.0	1.3	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^c	ND	10	4.2	ug/l	R
67-66-3	Chloroform	ND	2.0	0.60	ug/l	
126-99-8	Chloroprene	ND	10	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.55	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	2.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	0.55	ug/l	
75-71-8	Dichlorodifluoromethane ^b	ND UJ	4.0	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	20	4.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ug/l	
123-91-1	1,4-Dioxane ^b	ND	400	150	ug/l	R
100-41-4	Ethylbenzene	ND	2.0	0.71	ug/l	
97-63-2	Ethyl Methacrylate	ND	10	1.0	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GMA4-9	Date Sampled:	12/01/22
Lab Sample ID:	FC996-4	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	100	23	ug/l	
126-98-7	Methacrylonitrile	ND	40	10	ug/l	
74-83-9	Methyl Bromide	ND	10	4.0	ug/l	
74-87-3	Methyl Chloride	ND	4.0	1.0	ug/l	
74-88-4	Methyl Iodide	ND UJ	10	4.0	ug/l	
80-62-6	Methyl Methacrylate	ND	10	1.4	ug/l	
74-95-3	Methylene Bromide	ND	4.0	0.74	ug/l	
75-09-2	Methylene Chloride	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.0	ug/l	
107-12-0	Propionitrile ^e	ND UJ	40	10	ug/l	
100-42-5	Styrene	ND	2.0	0.44	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.55	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	2.2	2.0	0.43	ug/l	
108-88-3	Toluene	ND	2.0	0.60	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.93	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.69	ug/l	
75-69-4	Trichlorofluoromethane	ND	4.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	4.0	1.3	ug/l	
108-05-4	Vinyl Acetate	ND	20	4.0	ug/l	
75-01-4	Vinyl Chloride	ND	2.0	0.82	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	91%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	89%	79-125%
2037-26-5	Toluene-D8	96%	112%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	83-118%

- (a) Confirmation run.
 (b) Associated CCV outside control limits low.
 (c) Result reported from HCl preserved sample and should be used for screening purposes only.
 (d) Associated CCV outside control limits high, sample is ND.
 (e) Associated BS recovery outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	GMA4-DUP-1-120122	Date Sampled:	12/01/22
Lab Sample ID:	FC996-5	Date Received:	12/03/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1753460.D	1	12/09/22 16:07	KG	n/a	n/a	VI2782
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.8	25	10	ug/l	J
75-05-8	Acetonitrile ^a	ND	25	14	ug/l	
107-02-8	Acrolein ^b	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^b	ND UJ	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND UJ	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane ^a	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GMA4-DUP-1-120122		Date Sampled: 12/01/22
Lab Sample ID: FC996-5		Date Received: 12/03/22
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND UJ	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile ^d	ND UJ	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

- (a) Associated CCV outside control limits low.
- (b) Result reported from HCl preserved sample and should be used for screening purposes only.
- (c) Associated CCV outside control limits high, sample is ND.
- (d) Associated BS recovery outside control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

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Client Sample ID:	TRIPBLANK-GMA4-1-120122	Date Sampled:	12/01/22
Lab Sample ID:	FC996-6	Date Received:	12/03/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1753451.D	1	12/09/22 12:34	KG	n/a	n/a	VI2782
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile ^a	ND	25	14	ug/l	
107-02-8	Acrolein ^b	ND UJ	20	6.1	ug/l	
107-13-1	Acrylonitrile ^b	ND UJ	10	2.1	ug/l	
107-05-1	Allyl Chloride	ND	2.0	0.26	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	ND	5.0	2.1	ug/l	R
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
126-99-8	Chloroprene	ND	5.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND UJ	2.0	0.50	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
123-91-1	1,4-Dioxane ^a	ND	200	75	ug/l	R
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
97-63-2	Ethyl Methacrylate	ND	5.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIPBLANK-GMA4-1-120122	Date Sampled:	12/01/22
Lab Sample ID:	FC996-6	Date Received:	12/03/22
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	GE Pittsfield-GMA; 159 Plastics Ave, Pittsfield, MA		

VOA Appendix IX List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-83-1	Isobutyl Alcohol	ND	50	11	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl Iodide	ND UJ	5.0	2.0	ug/l	
80-62-6	Methyl Methacrylate	ND	5.0	0.71	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.37	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
107-12-0	Propionitrile ^d	ND UJ	20	5.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.63	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

- (a) Associated CCV outside control limits low.
 (b) Result reported from HCl preserved sample and should be used for screening purposes only.
 (c) Associated CCV outside control limits high, sample is ND.
 (d) Associated BS recovery outside control limits low.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

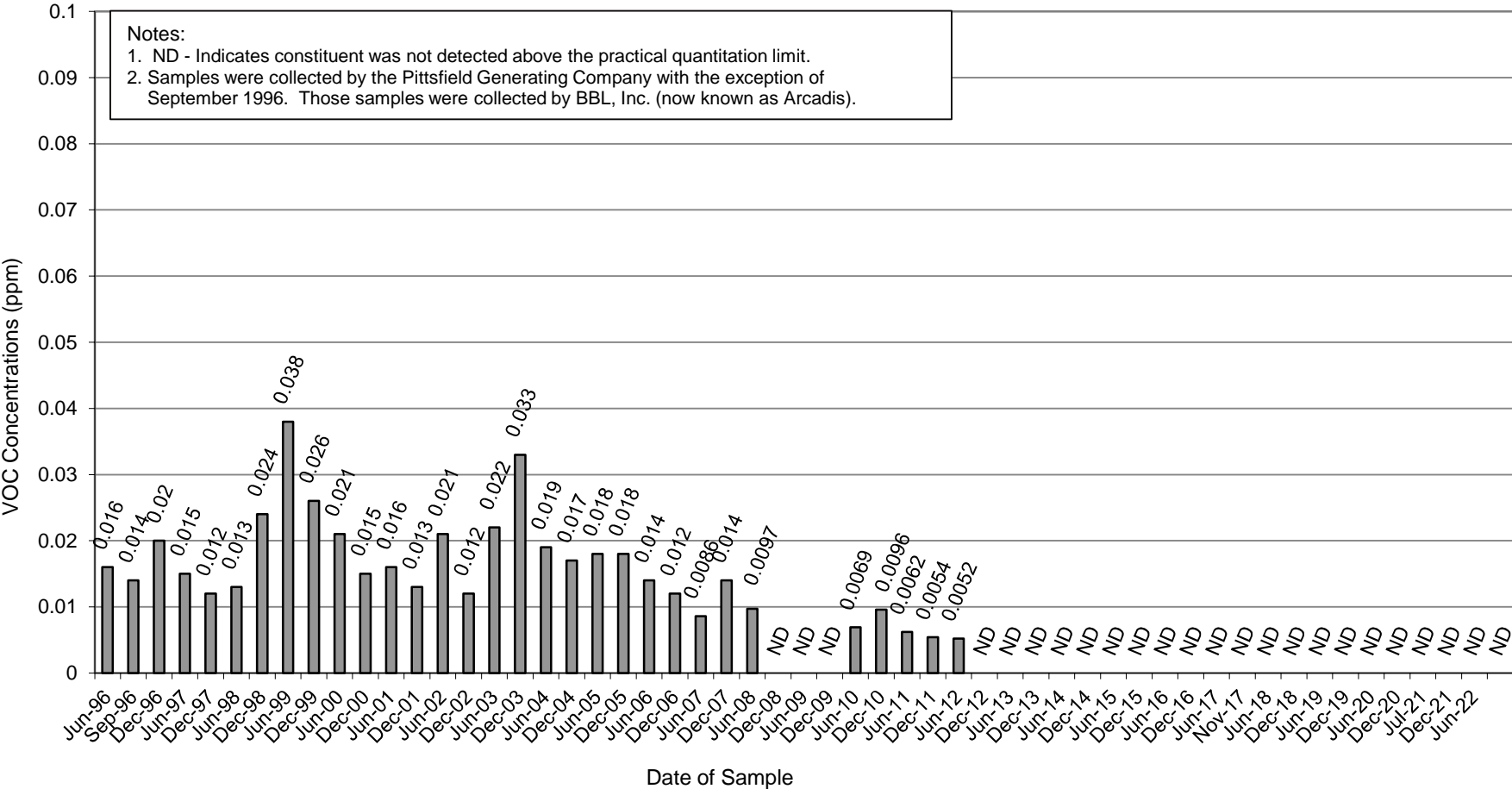
J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

APPENDIX C

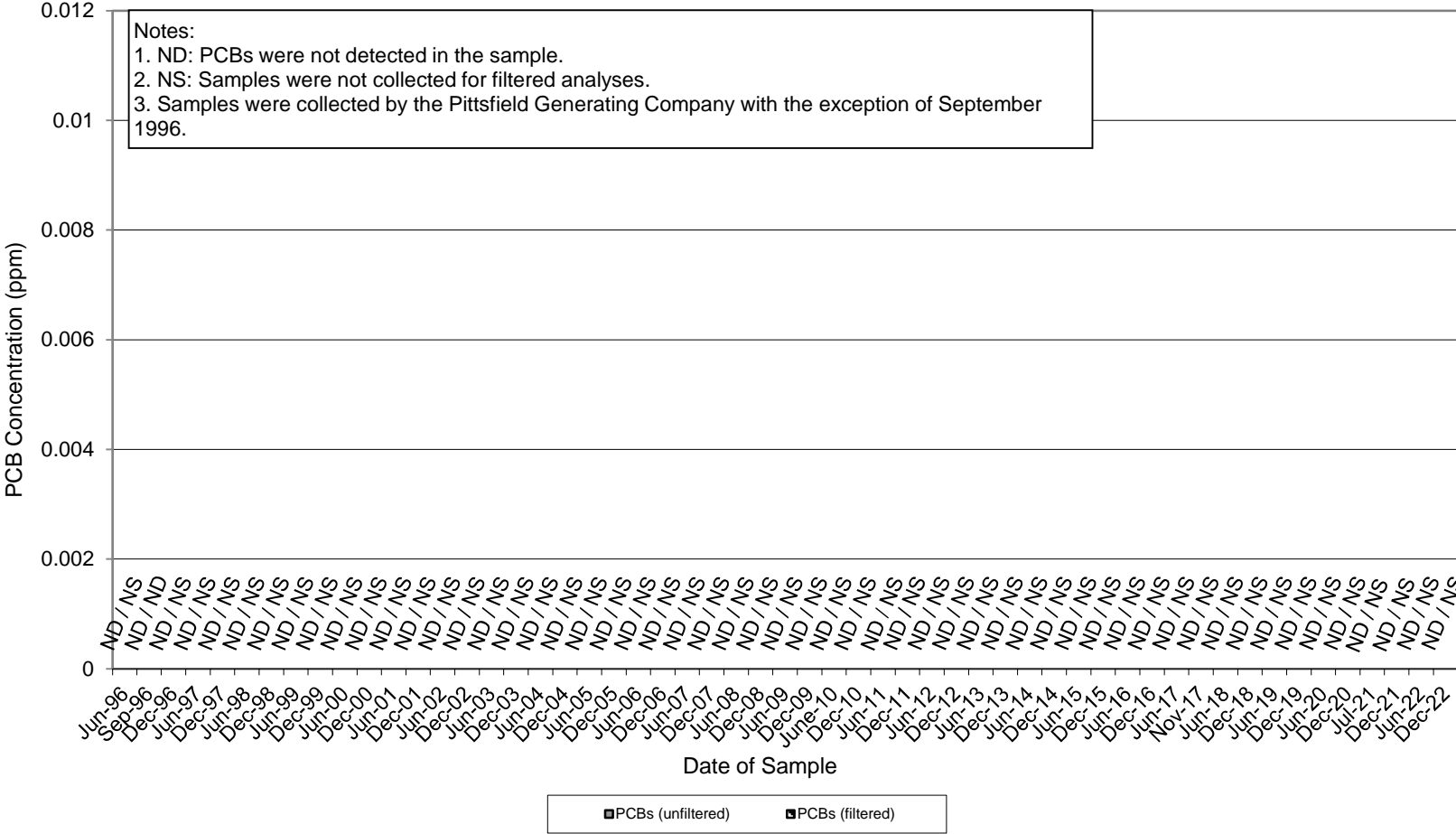
Pittsfield Generating Company Groundwater Analytical Data



Appendix C
Summary of Pittsfield Generating Company Groundwater Data
Well ASW-5 Historical Total VOC Concentrations
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
General Electric Company - Pittsfield, Massachuse



Appendix C
Summary of Pittsfield Generating Company Groundwater Data
Well ASW-5 Historical Total PCB Concentrations
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
General Electric Company - Pittsfield, Massachusetts





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(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 06, 2023

Rich Taikowski
Pittsfield Generating Company
253 Merrill Road
Pittsfield, MA 01201

TEL: (413) 442-6905

Work Order No: 221220050

PO#: 07-08281

RE: Semi-Annual Event
Pittsfield, MA

Adirondack Environmental Services, Inc received 21 samples on 12/20/2022 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Hess", is written over a horizontal line.

ELAP#: 10709

Christopher Hess
QA Manager

Pittsfield Generating Company

Date: 06-Jan-23

Semi-Annual Event

Lab WorkOrder: 221220050

Pittsfield, MA

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

Adirondack Environmental Services is a Massachusetts certified laboratory (Lab ID: M-NY063). The samples were analyzed in accordance with the requirements of the Massachusetts Laboratory Certification.

The sample Discharge Grab 3 collected on 12/21/22 for Oil & Grease analysis had the pH adjusted at the time of extraction.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers: ND : Not Detected at reporting limit	C: CCV below acceptable Limits
J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
H: Hold time exceeded	Z: Duplication outside acceptable limits
N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: 06-Jan-23

CLIENT: Pittsfield Generating Company
Work Order: 221220050
Reference: Semi-Annual Event / Pittsfield, MA
PO#: 07-08281

Client Sample ID: Well # 5
Collection Date: 12/20/2022 2:00:00 PM
Lab Sample ID: 221220050-006
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

POLYCHLORINATED BIPHENYLS - EPA 608.3

Analyst: **KF**

(Prep: SW3535A - 12/21/2022)

Aroclor 1016	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Aroclor 1221	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Aroclor 1232	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Aroclor 1242	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Aroclor 1248	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Aroclor 1254	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Aroclor 1260	ND	0.065		µg/L	1	12/21/2022 7:05:27 PM
Surr: Decachlorobiphenyl	66.8	48.8-140		%REC	1	12/21/2022 7:05:27 PM
Surr: Tetrachloro-m-xylene	43.6	38.4-130		%REC	1	12/21/2022 7:05:27 PM

VOLATILE ORGANICS EPA 624.1

Analyst: **SMD**

1,2-Dichloropropane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	12/21/2022 9:08:00 PM
Acrylonitrile	ND	25		µg/L	1	12/21/2022 9:08:00 PM
Chloromethane	ND	10		µg/L	1	12/21/2022 9:08:00 PM
Bromomethane	ND	10		µg/L	1	12/21/2022 9:08:00 PM
Vinyl chloride	ND	10		µg/L	1	12/21/2022 9:08:00 PM
Chloroethane	ND	10		µg/L	1	12/21/2022 9:08:00 PM
Methylene Chloride	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Chloroform	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Trichloroethene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Benzene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Bromoform	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Toluene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM

Adirondack Environmental Services, Inc

Date: 06-Jan-23

CLIENT: Pittsfield Generating Company
Work Order: 221220050
Reference: Semi-Annual Event / Pittsfield, MA
PO#: 07-08281

Client Sample ID: Well # 5
Collection Date: 12/20/2022 2:00:00 PM
Lab Sample ID: 221220050-006
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS EPA 624.1

Analyst: **SMD**

Chlorobenzene	ND	5.0	S	µg/L	1	12/21/2022 9:08:00 PM
Ethylbenzene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
m,p-Xylene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
o-Xylene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	12/21/2022 9:08:00 PM
Surr: 1,2-Dichloroethane-d4	103	80.9-126		%REC	1	12/21/2022 9:08:00 PM
Surr: 4-Bromofluorobenzene	107	84.5-119		%REC	1	12/21/2022 9:08:00 PM
Surr: Toluene-d8	104	79.4-124		%REC	1	12/21/2022 9:08:00 PM

Adirondack Environmental Services, Inc

Date: 06-Jan-23

CLIENT: Pittsfield Generating Company
Work Order: 221220050
Reference: Semi-Annual Event / Pittsfield, MA
PO#: 07-08281

Client Sample ID: Trip Blank Lot #F77
Collection Date: 12/20/2022
Lab Sample ID: 221220050-007
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS EPA 624.1

Analyst: SMD

1,2-Dichloropropane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	12/21/2022 9:29:00 PM
Acrylonitrile	ND	25		µg/L	1	12/21/2022 9:29:00 PM
Chloromethane	ND	10		µg/L	1	12/21/2022 9:29:00 PM
Bromomethane	ND	10		µg/L	1	12/21/2022 9:29:00 PM
Vinyl chloride	ND	10		µg/L	1	12/21/2022 9:29:00 PM
Chloroethane	ND	10		µg/L	1	12/21/2022 9:29:00 PM
Methylene Chloride	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Chloroform	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Trichloroethene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Benzene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Bromoform	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Toluene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Chlorobenzene	ND	5.0	S	µg/L	1	12/21/2022 9:29:00 PM
Ethylbenzene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
m,p-Xylene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
o-Xylene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	12/21/2022 9:29:00 PM
Surr: 1,2-Dichloroethane-d4	100	80.9-126		%REC	1	12/21/2022 9:29:00 PM
Surr: 4-Bromofluorobenzene	128	84.5-119	S	%REC	1	12/21/2022 9:29:00 PM
Surr: Toluene-d8	82.7	79.4-124		%REC	1	12/21/2022 9:29:00 PM



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CHAIN OF CUSTODY RECORD

AES Work Order#:

221220050

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Client Name: Pittsfield Generating		Address: 253 Merril Rd., Pittsfield, MA 01021						
Send Report to: Rich Taikowski		Project Name (Location): SemiAnnual Wastewater			Samplers Name:			
Client Phone No:		PO #: 07-08281			Samplers Signature:			
Client Fax No:								
AES Sample ID	Client Sample ID:	Date Sampled	Time A=am P=pm	Sample Type			# of Cont's	Analysis
				Matrix	C	G		
001	Discharge Day <u>1</u>	12/2/22	200	<input checked="" type="radio"/> WW	<input checked="" type="radio"/> C	<input type="radio"/> G	2	As, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn, Mo, Al, Se Phosphate
002				<input type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	0	Field: pH
003	Dis. Lab Comp. Grab1	12/19/22	12:45	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	2	*PCB, Total Cyanide
	Dis. Lab Comp. Grab2	12/19/22	700	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	2/1	*PCB, Total Cyanide
	Dis. Lab Comp. Grab3	12/20/22	100	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	2/1	*PCB, Total Cyanide
	Dis. Lab Comp. Grab4	12/20/22	700	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	2	*PCB, Total Cyanide
004	Discharge Grab #1	12/19/22	12:45	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	1	Oil & Grease
	Discharge Grab #2	12/19/22	700	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	1	Oil & Grease
	Discharge Grab #3	12/20/22	100	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	1	Oil & Grease
005	Discharge Grab #4	12/20/22	700	<input checked="" type="radio"/> WW	<input type="radio"/> C	<input checked="" type="radio"/> G	1	Oil & Grease
006	Well #5	12/23/22	200	<input checked="" type="radio"/> GW	<input type="radio"/> C	<input checked="" type="radio"/> G	3	PCB, EPA 624
007	Trip Blank Lot# <u>F77</u>			<input checked="" type="radio"/> WA	<input type="radio"/> C	<input type="radio"/> G	1	EPA 624
Shipment Arrived Via: FedEx UPS Client <input checked="" type="radio"/> AES Other: _____				Special Instructions/Remarks: Discharge Day <u>1</u> pH <u>6.9</u> s.u. *Lab to Comp. PCB and T. Cyanide samples each 4:1. AES collects 24 hour composite and Grab #1. Pittsfield Generating Collects Grabs #2-4.				
Turnaround Time Requested: <input checked="" type="radio"/> 1 Day <input checked="" type="radio"/> 3 Day <input checked="" type="radio"/> Normal <input checked="" type="radio"/> 2-Day <input checked="" type="radio"/> 5 Day								
Relinquished by: (Signature)		Received by: (Signature)			Date	Time		
Relinquished by: (Signature)		Received by: (Signature)			Date	Time		
Relinquished by: (Signature)		Received for Laboratory by:			Date	Time		
Sample Temperature: Ambient <input checked="" type="radio"/> Chilled <input type="radio"/> Chilling Process begun		Properly Preserved <input checked="" type="radio"/> Y <input type="radio"/> N			Received Within Holding Times <input checked="" type="radio"/> Y <input type="radio"/> N			
Notes: <u>402</u>		Notes: _____			Notes: _____			



221220050



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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

APPENDIX D

Summary Statistics and Select Graphs on Historical Groundwater Quality Data



GMA 4 Summary Statistics

Table D-1
Summary Statistics on Historical Groundwater Quality Data - GMA4-7S
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatile Organics										
2-Butanone	50	50	100	3/25	0.001	0.0065	0.00250	0.00560	0.00407	0.00479
3-Chloropropene	--	--	--	1/25	0.00034	0.00034	0.00100	0.000894	0.000781	0.000546
4-Methyl-2-pentanone	50	50	100	1/25	0.0019	0.0019	0.00250	0.00248	0.00247	0.000120
Acetone	50	50	100	11/25	0.0011	0.051	0.0130	0.0161	0.0117	0.0119
Bromodichloromethane	0.006	50	100	1/25	0.00017	0.00019	0.000500	0.000487	0.000480	0.0000640
Chloroform	0.05	20	100	6/25	0.00052	0.0017	0.000500	0.000621	0.000578	0.000310
Tetrachloroethene	0.05	30	100	6/25	0.00048	0.011	0.000500	0.00113	0.000684	0.00215
Trichloroethene	0.005	5	50	3/25	0.00017	0.0004	0.000500	0.000477	0.000468	0.0000730
Total VOCs	5	--	--	18/25	0.00048	0.052	0.0180	0.0339	0.0141	0.0369

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable.

Table D-2
Summary Statistics on Historical Groundwater Quality Data - GMA4-8
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatile Organics										
2-Butanone	50	50	100	4/24	0.0014	0.01	0.00250	0.00482	0.00362	0.00424
Acetone	50	50	100	12/24	0.0029	0.085	0.0130	0.0195	0.0142	0.0182
Chloroform	0.05	20	100	1/24	0.00058	0.00058	0.000500	0.000545	0.000527	0.000204
Xylenes (total)	3	5	100	1/24	0.00026	0.00026	0.00150	0.00130	0.00113	0.000790
Total VOCs	5	--	--	12/24	0.0029	0.085	0.0475	0.0521	0.0363	0.0373
Inorganics-filtered										
Cadmium	--	0.004	0.05	4/4	0.00083	0.0033	0.00214	0.00208	0.00180	0.00120

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable.

Table D-3
Summary Statistics on Historical Groundwater Quality Data - GMA4-9
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatiles Organics										
2-Butanone	50	50	100	2/25	0.0016	0.0062	0.00500	0.0184	0.00707	0.0299
2-Chloro-1,3-butadiene	--	--	--	1/25	0.005	0.005	0.00250	0.00304	0.00237	0.00207
Acetone	50	50	100	10/25	0.01	0.11	0.0230	0.0323	0.0229	0.0306
Chloroform	0.05	20	100	9/25	0.00045	0.0039	0.00100	0.00169	0.00111	0.00208
cis-1,2-Dichloroethene	0.02	50	100	1/1	0.00061	0.00061	0.000560	0.000560	0.000560	NA
Methylene Chloride	2	50	100	2/25	0.00016	0.0084	0.00250	0.00744	0.00374	0.0111
Tetrachloroethene	0.05	30	100	24/25	0.0014	0.36	0.0830	0.0802	0.0306	0.0836
Trichloroethene	0.005	5	50	21/25	0.00012	0.007	0.00240	0.00240	0.00155	0.00190
Xylenes (total)	3	5	100	1/25	0.0021	0.0021	0.00150	0.00272	0.00200	0.00253
Total VOCs	5	--	--	25/25	0.0043	0.37	0.0980	0.0986	0.0622	0.0884

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable.

Table D-4
Summary Statistics on Historical Groundwater Quality Data - H78B-16
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
None detected	--	--	--	0/1	--	--	--	--	--	--
PCBs-Filtered										
None detected	--	--	--	0/1	--	--	--	--	--	--
Volatile Organics										
1,1,1-Trichloroethane	4	20	100	7/35	0.00034	0.009	0.000500	0.00188	0.00112	0.00227
1,1-Dichloroethane	2	20	100	7/35	0.00018	0.005	0.000500	0.00167	0.000980	0.00200
1,1-Dichloroethene	0.08	30	100	4/35	0.00035	0.0014	0.000500	0.00133	0.000815	0.00191
1,2-Dichloroethane	0.005	20	100	9/35	0.00025	0.0028	0.000640	0.00166	0.00105	0.00191
2-Butanone	50	50	100	1/34	0.0064	0.0064	0.00500	0.0152	0.00609	0.0425
3-Chloropropene	--	--	--	1/35	0.00037	0.00037	0.00100	0.00230	0.00145	0.00252
Acetone	50	50	100	11/35	0.0069	0.074	0.0130	0.0213	0.0119	0.0270
Benzene	1	10	100	2/35	0.0006	0.00061	0.000500	0.00163	0.000963	0.00202
Chloroethane	--	--	--	3/35	0.00079	0.0035	0.00100	0.00225	0.00147	0.00240
Chloroform	0.05	20	100	5/35	0.00014	0.0013	0.000500	0.00162	0.000947	0.00194
cis-1,2-Dichloroethene	0.02	50	100	1/1	0.021	0.027	0.0240	0.0240	0.0240	NA
Methylene Chloride	2	50	100	3/35	0.00016	0.0015	0.00250	0.00535	0.00303	0.00906
Tetrachloroethene	0.05	30	100	22/35	0.00022	0.0076	0.00100	0.00182	0.00113	0.00210
trans-1,2-Dichloroethene	0.08	50	100	13/35	0.00019	0.002	0.000710	0.00160	0.000994	0.00191
Trichloroethene	0.005	5	50	35/35	0.0003	0.74	0.0470	0.119	0.0405	0.161
Trichlorofluoromethane	--	--	--	2/35	0.00041	0.00062	0.00100	0.00213	0.00134	0.00242
Vinyl Chloride	0.002	50	100	18/35	0.00028	0.023	0.000840	0.00384	0.00153	0.00571
Total VOCs	5	--	--	35/35	0.00057	0.81	0.0690	0.141	0.0622	0.175
Semivolatile Organics										
Diethylphthalate	50	9	100	1/1	0.001	0.001	0.00430	0.00430	0.00430	NA
Furans										
2,3,7,8-TCDF	--	--	--	0/1	ND	ND	5.30E-10	5.30E-10	5.30E-10	NA
TCDFs (total)	--	--	--	0/1	ND	ND	5.30E-10	5.30E-10	5.30E-10	NA
1,2,3,7,8-PeCDF	--	--	--	0/1	ND	ND	1.30E-09	1.30E-09	1.30E-09	NA
2,3,4,7,8-PeCDF	--	--	--	0/1	ND	ND	1.20E-09	1.20E-09	1.20E-09	NA
PeCDFs (total)	--	--	--	0/1	ND	ND	1.30E-09	1.30E-09	1.30E-09	NA
1,2,3,4,7,8-HxCDF	--	--	--	0/1	ND	ND	5.70E-10	5.70E-10	5.70E-10	NA
1,2,3,6,7,8-HxCDF	--	--	--	0/1	ND	ND	4.50E-10	4.50E-10	4.50E-10	NA

Table D-4
Summary Statistics on Historical Groundwater Quality Data - H78B-16
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans (cont.)										
1,2,3,7,8,9-HxCDF	--	--	--	0/1	ND	ND	5.70E-10	5.70E-10	5.70E-10	NA
2,3,4,6,7,8-HxCDF	--	--	--	0/1	ND	ND	1.30E-09	1.30E-09	1.30E-09	NA
HxCDFs (total)	--	--	--	0/1	ND	ND	1.30E-09	1.30E-09	1.30E-09	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	0/1	ND	ND	4.30E-10	4.30E-10	4.30E-10	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	0/1	ND	ND	6.50E-10	6.50E-10	6.50E-10	NA
HpCDFs (total)	--	--	--	0/1	ND	ND	6.50E-10	6.50E-10	6.50E-10	NA
OCDF	--	--	--	0/1	ND	ND	2.80E-09	2.80E-09	2.80E-09	NA
Dioxins										
2,3,7,8-TCDD	--	--	--	0/1	ND	ND	8.30E-10	8.30E-10	8.30E-10	NA
TCDDs (total)	--	--	--	0/1	ND	ND	8.30E-10	8.30E-10	8.30E-10	NA
1,2,3,7,8-PeCDD	--	--	--	0/1	ND	ND	1.50E-09	1.50E-09	1.50E-09	NA
PeCDDs (total)	--	--	--	0/1	ND	ND	1.80E-09	1.80E-09	1.80E-09	NA
1,2,3,4,7,8-HxCDD	--	--	--	0/1	ND	ND	1.20E-09	1.20E-09	1.20E-09	NA
1,2,3,6,7,8-HxCDD	--	--	--	0/1	ND	ND	1.10E-09	1.10E-09	1.10E-09	NA
1,2,3,7,8,9-HxCDD	--	--	--	0/1	ND	ND	1.10E-09	1.10E-09	1.10E-09	NA
HxCDDs (total)	--	--	--	0/1	ND	ND	1.20E-09	1.20E-09	1.20E-09	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	0/1	ND	ND	9.00E-10	9.00E-10	9.00E-10	NA
HpCDDs (total)	--	--	--	0/1	ND	ND	9.00E-10	9.00E-10	9.00E-10	NA
OCDD	--	--	--	0/1	ND	ND	7.50E-09	7.50E-09	7.50E-09	NA
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	1/1	2.8E-09	4.6E-09	4.60E-09	4.60E-09	4.60E-09	NA
Inorganics										
Antimony	--	8	80	1/1	0.003	0.003	0.00205	0.00205	0.00205	NA
Arsenic	--	0.9	9	1/1	0.0158	0.0199	0.0179	0.0179	0.0179	NA
Barium	--	50	100	1/1	0.0265	0.0287	0.0276	0.0276	0.0276	NA
Cadmium	--	0.004	0.05	1/1	0.0003	0.0003	0.000225	0.000225	0.000225	NA
Lead	--	0.01	0.15	1/1	0.0024	0.003	0.00270	0.00270	0.00270	NA
Nickel	--	0.2	2	1/1	0.002	0.002	0.00140	0.00140	0.00140	NA
Selenium	--	0.1	1	1/1	0.0271	0.0299	0.0285	0.0285	0.0285	NA
Thallium	--	3	30	1/1	0.0134	0.0136	0.0135	0.0135	0.0135	NA

Table D-4
Summary Statistics on Historical Groundwater Quality Data - H78B-16
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

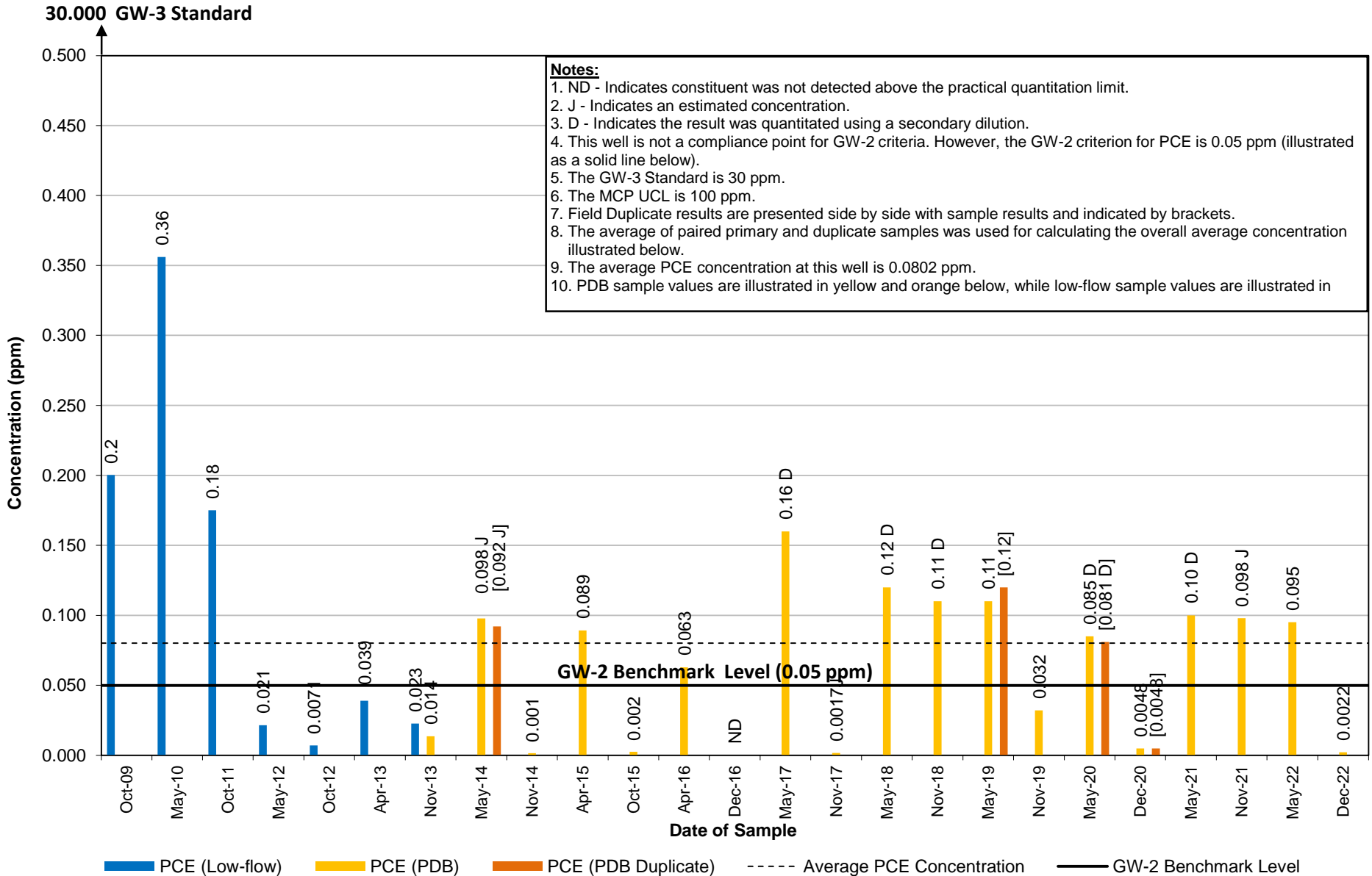
Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered										
Antimony	--	8	80	1/1	0.0038	0.0096	0.00670	0.00670	0.00670	NA
Barium	--	50	100	1/1	0.025	0.0297	0.0274	0.0274	0.0274	NA
Copper	--	0.23	--	1/1	0.0026	0.0034	0.00300	0.00300	0.00300	NA
Lead	--	0.01	0.15	1/1	0.0015	0.0019	0.00170	0.00170	0.00170	NA
Nickel	--	0.2	2	1/1	0.002	0.0023	0.00215	0.00215	0.00215	NA
Selenium	--	0.1	1	1/1	0.0034	0.0034	0.00245	0.00245	0.00245	NA

Notes:

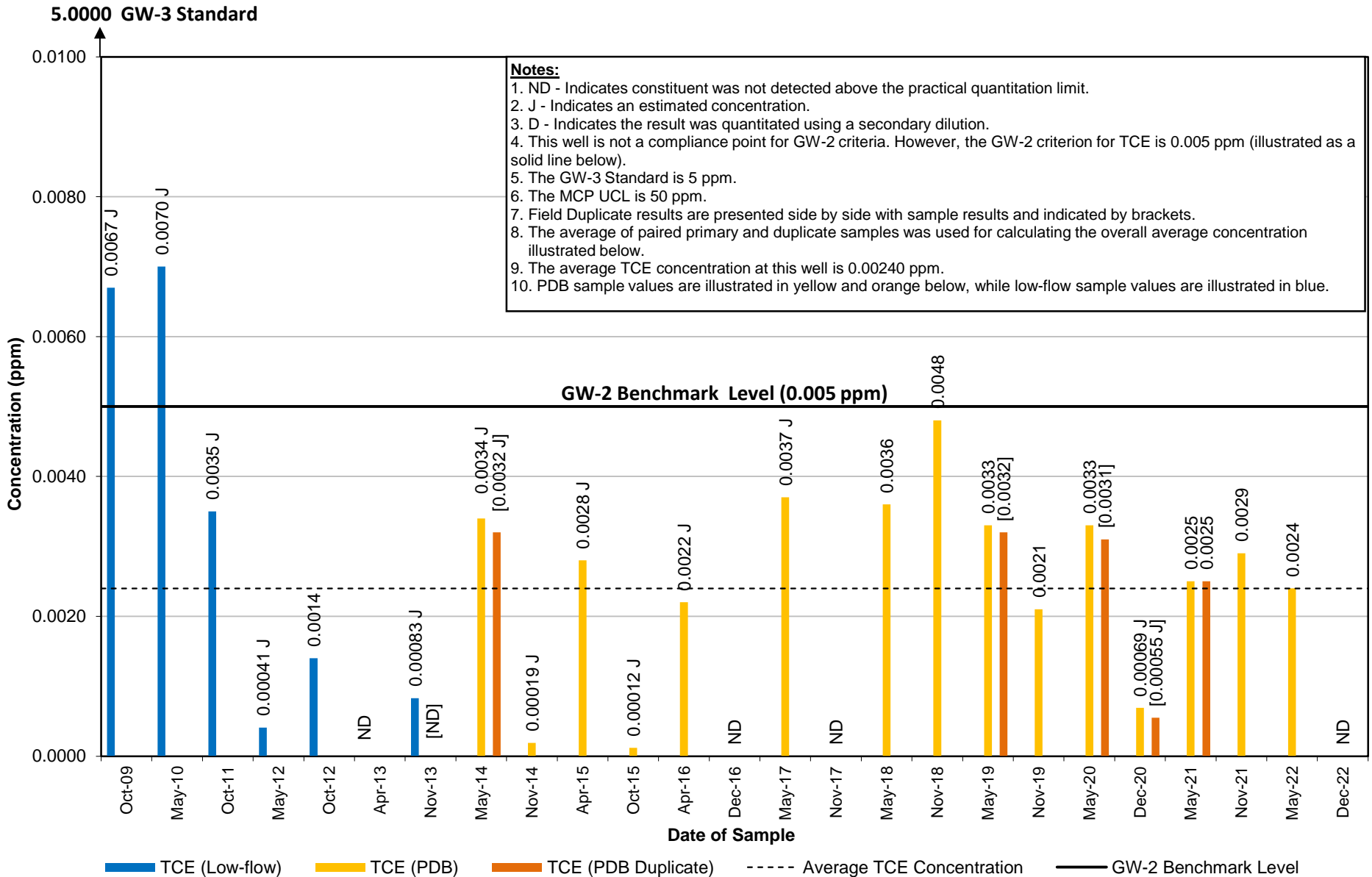
1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable.
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

GMA 4 Graphs

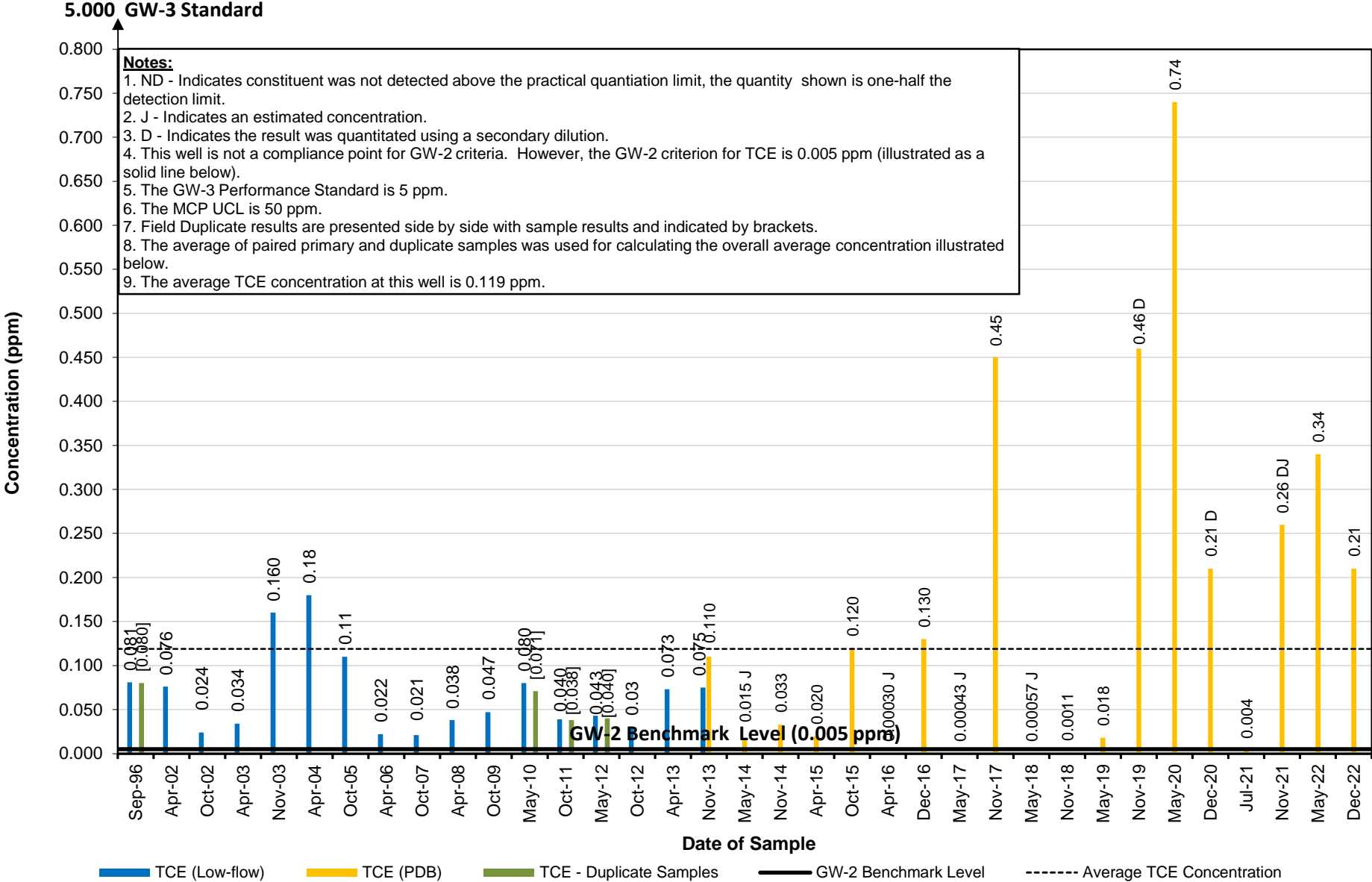
Appendix D
GMA4-9 Historical PCE Concentrations
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



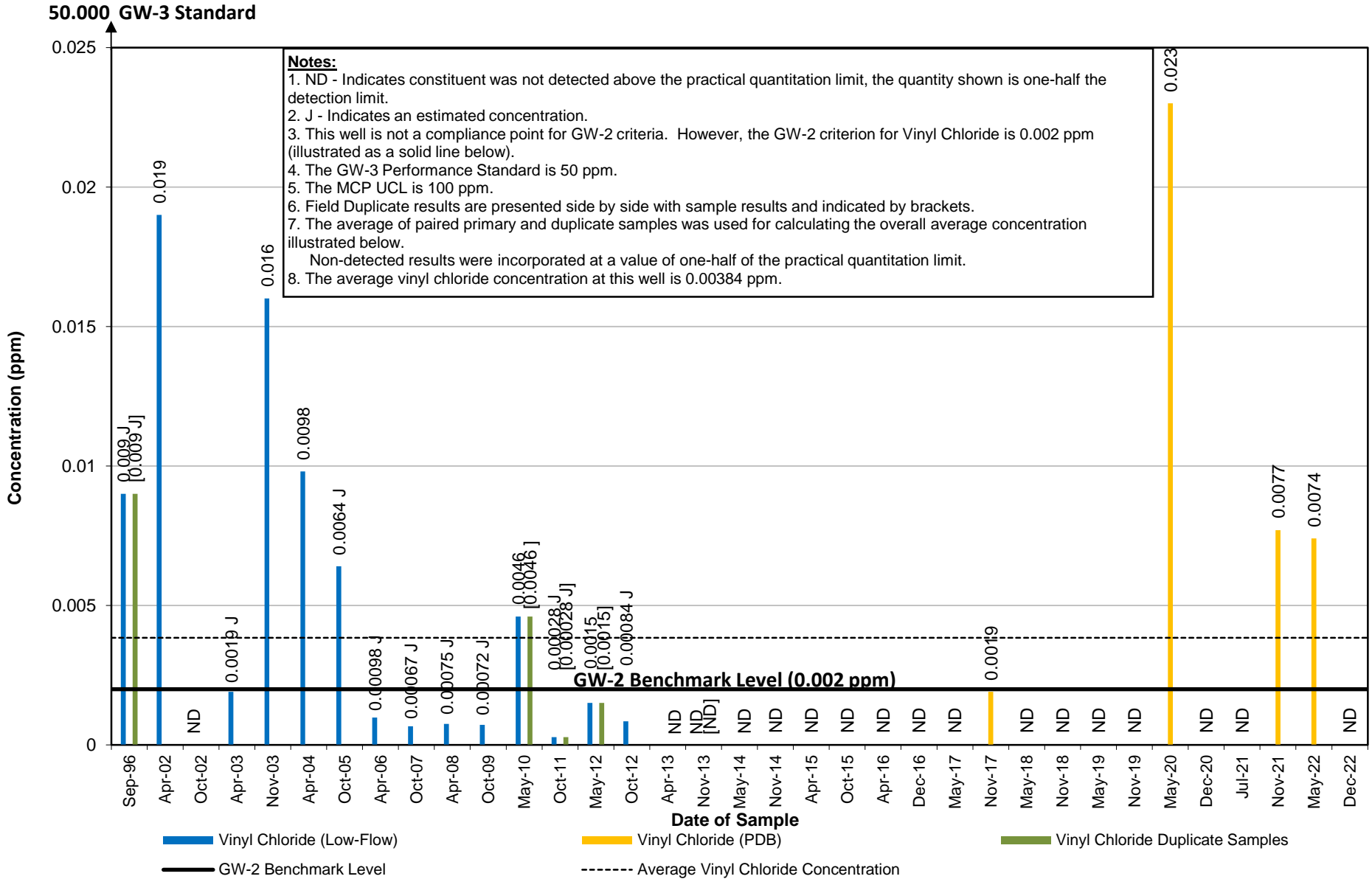
Appendix D
GMA4-9 Historical TCE Concentrations
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



Appendix D
H78B-16 Historical TCE Concentrations
GMA 4 Long Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



Appendix D
Well H78B-16 Historical Vinyl Chloride Concentrations
GMA 4 Long Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Spring 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield



OPCA Summary Statistics

Table D-1
Summary of Groundwater Sample Analytical Results - 78-1
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	6/9	0.000053	0.00023	0.0000610	0.0000996	0.0000766	0.0000776
Aroclor-1260	--	--	--	5/9	0.000046	0.0001	0.0000490	0.0000512	0.0000481	0.0000210
Total PCBs	0.005	0.01	0.1	6/9	0.000061	0.00028	0.000110	0.000135	0.000100	0.0000991
PCBs-Filtered										
Aroclor-1248	--	--	--	1/45	0.000056	0.000056	0.0000340	0.0000755	0.0000553	0.0000667
Aroclor-1254	--	--	--	14/45	0.0000076	0.0007	0.0000500	0.000106	0.0000692	0.000120
Aroclor-1260	--	--	--	3/45	0.000017	0.000039	0.0000340	0.0000753	0.0000550	0.0000669
Total PCBs	0.005	0.01	0.1	14/45	0.0000076	0.0007	0.0000500	0.000108	0.0000713	0.000119
Volatile Organics										
2-Butanone	50	50	100	1/45	0.019	0.019	0.00500	0.0120	0.00504	0.0371
Acetone	50	50	100	4/46	0.0011	0.41	0.00625	0.0191	0.00769	0.0493
Bromoform	0.7	50	100	1/46	0.00048	0.00048	0.000500	0.00217	0.000874	0.00728
Chloroform	0.05	20	100	1/46	0.00056	0.00056	0.000500	0.00212	0.000863	0.00727
Chloromethane	--	--	--	1/46	0.00011	0.00011	0.00100	0.00244	0.00109	0.00729
Methylene Chloride	2	50	100	1/47	0.005	0.005	0.00250	0.00779	0.00270	0.0361
Toluene	50	40	100	5/46	0.00018	0.0047	0.000500	0.00213	0.000848	0.00728
Total VOCs	5	--	--	11/47	0.00018	0.42	0.0500	0.164	0.0295	0.722
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	3/46	0.00076	0.0025	0.00265	0.00294	0.00265	0.00176
Diethylphthalate	50	9	100	2/46	0.001	0.0012	0.00270	0.00339	0.00313	0.00139
Phenol	50	2	100	1/46	0.01	0.01	0.00270	0.00362	0.00334	0.00162
Total PAHs	--	--	--	4/4	0.005	0.0056	0.00520	0.00525	0.00524	0.000300
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--

Table D-1
Summary of Groundwater Sample Analytical Results - 78-1
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans										
2,3,7,8-TCDF	--	--	--	8/39	1.5E-09	0.000000014	9E-10	2.3E-09	1.19E-09	3.01E-09
TCDFs (total)	--	--	--	13/39	1.7E-09	0.00000012	1.9E-09	0.000000012	2.67E-09	0.000000026
1,2,3,7,8-PeCDF	--	--	--	6/39	8.8E-10	0.000000025	1.1E-09	3.51E-09	1.3E-09	6.01E-09
2,3,4,7,8-PeCDF	--	--	--	3/39	8E-10	0.000000012	0.000000001	2.49E-09	1.17E-09	4.57E-09
PeCDFs (total)	--	--	--	14/39	1.1E-09	0.000000061	2.7E-09	8.33E-09	2.58E-09	0.000000013
1,2,3,4,7,8-HxCDF	--	--	--	8/39	9.6E-10	0.000000018	1.3E-09	3.37E-09	1.27E-09	5.48E-09
1,2,3,6,7,8-HxCDF	--	--	--	3/39	6.8E-10	6.5E-09	9E-10	2.38E-09	1.11E-09	4.38E-09
1,2,3,7,8,9-HxCDF	--	--	--	2/39	2.8E-09	0.000000025	1.3E-09	2.98E-09	1.31E-09	5.63E-09
2,3,4,6,7,8-HxCDF	--	--	--	2/39	3.9E-09	7.1E-09	1.1E-09	2.44E-09	1.14E-09	4.4E-09
HxCDFs (total)	--	--	--	10/38	6.8E-10	0.00000007	2.15E-09	5.96E-09	1.75E-09	1.27E-08
1,2,3,4,6,7,8-HpCDF	--	--	--	6/39	6.1E-10	0.000000014	9.5E-10	2.44E-09	1.18E-09	4.48E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	3/39	4.8E-10	5.6E-09	1.3E-09	2.54E-09	1.32E-09	4.34E-09
HpCDFs (total)	--	--	--	6/38	4.7E-10	0.000000024	1.4E-09	3.68E-09	1.48E-09	6.4E-09
OCDF	--	--	--	4/39	2.1E-09	0.00000002	2.9E-09	5.49E-09	2.84E-09	8.9E-09
Dioxins										
2,3,7,8-TCDD	--	--	--	2/39	4.2E-10	5.1E-09	9E-10	1.47E-09	1.01E-09	1.47E-09
TCDDs (total)	--	--	--	8/39	4.2E-10	7.5E-09	1.2E-09	1.89E-09	1.33E-09	1.85E-09
1,2,3,7,8-PeCDD	--	--	--	1/39	0.000000025	0.000000025	1.5E-09	3.37E-09	1.55E-09	5.86E-09
PeCDDs (total)	--	--	--	6/39	7.7E-09	0.000000017	2.4E-09	4.84E-09	2.48E-09	6.26E-09
1,2,3,4,7,8-HxCDD	--	--	--	2/39	1.5E-09	0.000000025	1.5E-09	3.07E-09	1.41E-09	5.59E-09
1,2,3,6,7,8-HxCDD	--	--	--	3/39	2.3E-10	0.000000025	1.5E-09	3.08E-09	1.21E-09	5.6E-09
1,2,3,7,8,9-HxCDD	--	--	--	4/39	1.2E-09	0.000000025	1.5E-09	3.11E-09	1.49E-09	5.58E-09
HxCDDs (total)	--	--	--	6/38	2.3E-10	0.000000038	1.75E-09	4.3E-09	1.54E-09	7.63E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	5/39	8.5E-10	7.3E-09	1.6E-09	3.09E-09	1.75E-09	4.42E-09
HpCDDs (total)	--	--	--	8/38	1.1E-09	0.000000018	2.05E-09	4.2E-09	2.06E-09	5.69E-09
OCDD	--	--	--	5/39	0.000000006	0.000000027	0.000000005	8.27E-09	0.000000004	9.96E-09
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	39/39	9.4E-10	0.000000063	4.9E-09	8.21E-09	4.73E-09	0.000000012

Table D-1
Summary of Groundwater Sample Analytical Results - 78-1
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics										
Antimony	--	8	80	1/7	0.007	0.007	0.0300	0.0267	0.0244	0.00869
Barium	--	50	100	6/7	0.025	0.088	0.0330	0.0486	0.0418	0.0314
Cadmium	--	0.004	0.05	1/7	0.00098	0.00098	0.00250	0.00235	0.00224	0.000634
Calcium	--	--	--	1/1	43	43	43.0	43.0	43.0	NA
Chromium	--	0.3	3	3/7	0.0013	0.014	0.00500	0.00567	0.00459	0.00405
Cobalt	--	0.075	--	2/7	0.0022	0.013	0.0250	0.0207	0.0165	0.00968
Copper	--	0.23	--	4/7	0.0016	0.022	0.0130	0.0110	0.00835	0.00728
Cyanide	--	0.03	2	1/7	0.0071	0.0071	0.00500	0.00601	0.00580	0.00192
Lead	--	0.01	0.15	1/7	0.012	0.012	0.00250	0.0124	0.00400	0.0235
Magnesium	--	--	--	1/1	18	18	18.0	18.0	18.0	NA
Manganese	--	--	--	1/1	0.47	0.47	0.470	0.470	0.470	NA
Nickel	--	0.2	2	3/7	0.0023	0.02	0.0200	0.0166	0.0124	0.00989
Sodium	--	--	--	1/1	27	27	27.0	27.0	27.0	NA
Sulfide	--	--	--	3/39	1.1	5.6	1.00	1.35	1.12	0.837
Vanadium	--	4	40	1/7	0.0019	0.0019	0.0250	0.0224	0.0178	0.00924
Zinc	--	0.9	50	7/8	0.016	0.076	0.0245	0.0310	0.0262	0.0209
Inorganics-filtered										
Antimony	--	8	80	3/44	0.001	0.0023	0.0200	0.0163	0.0104	0.0108
Barium	--	50	100	33/44	0.012	0.0462	0.0301	0.0569	0.0376	0.0714
Beryllium	--	0.2	2	4/44	0.00021	0.00865	0.00200	0.00247	0.00170	0.00201
Cadmium	--	0.004	0.05	13/44	0.00005	0.0223	0.00225	0.00219	0.00123	0.00332
Calcium	--	--	--	1/1	62.6	62.6	62.6	62.6	62.6	NA
Chromium	--	0.3	3	4/44	0.00071	0.00301	0.00500	0.00478	0.00443	0.00164
Cobalt	--	0.075	--	8/44	0.000082	0.0092	0.00710	0.0133	0.00826	0.0101
Copper	--	0.23	--	9/44	0.0011	0.0042	0.0113	0.0172	0.00836	0.0276
Lead	--	0.01	0.15	5/44	0.0028	0.00925	0.00250	0.00326	0.00279	0.00176
Magnesium	--	--	--	1/1	22.1	22.1	22.1	22.1	22.1	NA
Manganese	--	--	--	1/1	0.0575	0.0575	0.0575	0.0575	0.0575	NA
Mercury	--	0.02	0.2	4/44	0.0000403	0.000191	0.000100	0.000148	0.000129	0.0000785

Table D-1
Summary of Groundwater Sample Analytical Results - 78-1
GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Areas
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Nickel	--	0.2	2	8/44	0.0008	0.00377	0.0200	0.0130	0.00896	0.00882
Potassium	--	--	--	1/1	1.6	1.6	1.60	1.60	1.60	NA
Selenium	--	0.1	1	4/44	0.00294	0.00976	0.00500	0.00644	0.00533	0.00425
Silver	--	0.007	1	2/44	0.00008	0.0007	0.00250	0.00274	0.00192	0.00169
Sodium	--	--	--	1/1	124	124	124	124	124	NA
Thallium	--	3	30	3/44	0.00004	0.0035	0.00500	0.00432	0.00363	0.00145
Tin	--	--	--	3/43	0.001	0.0163	0.0250	0.0297	0.0234	0.0169
Vanadium	--	4	40	2/44	0.001	0.00509	0.0250	0.0228	0.0201	0.00650
Zinc	--	0.9	50	24/44	0.00245	0.0894	0.0100	0.0139	0.0108	0.0136

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-2
Summary of Groundwater Sample Analytical Results - 78-6&78-6R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	4/9	0.000021	0.00013	0.000033	0.0000474	0.0000348	0.00004
Aroclor-1260	--	--	--	1/9	0.0002	0.0002	0.000033	0.0000455	0.0000294	0.0000588
Total PCBs	0.005	0.01	0.1	4/9	0.000021	0.0003	0.000033	0.0000699	0.0000394	0.0000932
PCBs-Filtered										
Aroclor-1248	--	--	--	1/45	0.00004	0.00004	0.0000340	0.0000754	0.0000546	0.0000678
Aroclor-1254	--	--	--	7/45	0.000022	0.00079	0.0000370	0.0000937	0.0000604	0.000125
Aroclor-1260	--	--	--	1/45	0.000016	0.000016	0.0000340	0.0000747	0.0000533	0.0000683
Total PCBs	0.005	0.01	0.1	7/45	0.000022	0.00079	0.0000460	0.0000944	0.0000614	0.000125
Volatile Organics										
Acetone	50	50	100	5/46	0.00066	0.005	0.00500	0.00851	0.00612	0.00786
Chloroform	0.05	20	100	1/45	0.00081	0.00081	0.000500	0.00101	0.000764	0.000867
Chloromethane	--	--	--	1/45	0.00064	0.00064	0.00100	0.00123	0.000962	0.000966
Dibromomethane	--	--	--	1/45	0.0011	0.0011	0.00100	0.00121	0.000978	0.000822
Methylene Chloride	2	50	100	1/46	0.007	0.007	0.00250	0.00251	0.00243	0.000756
Toluene	50	40	100	3/45	0.00031	0.002	0.000500	0.00103	0.000771	0.000863
Total VOCs	5	--	--	11/46	0.00031	0.012	0.0500	0.0548	0.0250	0.0418
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	1/45	0.00056	0.00056	0.00260	0.00291	0.00271	0.00130
Dimethylphthalate	50	50	100	1/45	0.0006	0.0006	0.00260	0.00342	0.00312	0.00155
Di-n-Butylphthalate	--	--	--	1/45	0.0011	0.0011	0.00260	0.00343	0.00316	0.00153
Naphthalene	0.7	20	100	2/45	0.00078	0.0016	0.00260	0.00333	0.00298	0.00163
Total PAHs	--	--	--	3/3	0.005	0.0056	0.00510	0.00520	0.00520	0.000265
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--

Table D-2
Summary of Groundwater Sample Analytical Results - 78-6&78-6R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans										
2,3,7,8-TCDF	--	--	--	4/39	1.2E-09	5.1E-09	1.3E-09	1.47E-09	8.98E-10	1.23E-09
TCDFs (total)	--	--	--	9/39	1.2E-09	0.00000005	1.6E-09	4.22E-09	1.51E-09	7.87E-09
1,2,3,7,8-PeCDF	--	--	--	3/39	2.2E-09	0.000000026	1.3E-09	3.57E-09	1.22E-09	6.28E-09
2,3,4,7,8-PeCDF	--	--	--	1/39	0.000000026	0.000000026	1.2E-09	3.5E-09	1.16E-09	6.3E-09
PeCDFs (total)	--	--	--	6/39	2.9E-09	0.000000026	1.9E-09	4.03E-09	1.56E-09	6.34E-09
1,2,3,4,7,8-HxCDF	--	--	--	2/39	3.91E-09	0.000000026	1.3E-09	3.38E-09	1.21E-09	6.15E-09
1,2,3,6,7,8-HxCDF	--	--	--	2/39	4.08E-09	0.000000026	1.3E-09	3.32E-09	1.12E-09	6.15E-09
1,2,3,7,8,9-HxCDF	--	--	--	4/39	2.4E-10	0.000000026	1.3E-09	3.53E-09	1.31E-09	6.14E-09
2,3,4,6,7,8-HxCDF	--	--	--	2/39	5.71E-09	0.000000026	1.3E-09	3.42E-09	1.19E-09	6.16E-09
HxCDFs (total)	--	--	--	4/38	2E-12	0.000000026	1.55E-09	3.55E-09	1.42E-09	6.17E-09
1,2,3,4,6,7,8-HpCDF	--	--	--	7/39	3.4E-10	0.000000026	1.3E-09	3.37E-09	1.19E-09	6.22E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	2/39	5.98E-09	0.000000026	1.3E-09	3.78E-09	1.37E-09	6.39E-09
HpCDFs (total)	--	--	--	8/38	1.3E-10	0.000000026	1.5E-09	3.65E-09	1.38E-09	6.29E-09
OCDF	--	--	--	3/39	5.1E-09	0.000000051	0.000000003	7.28E-09	2.98E-09	0.00000012
Dioxins										
2,3,7,8-TCDD	--	--	--	1/39	5.1E-09	5.1E-09	0.000000001	1.51E-09	8.85E-10	1.49E-09
TCDDs (total)	--	--	--	4/39	0.000000001	0.000000011	1.2E-09	1.87E-09	1.07E-09	2.21E-09
1,2,3,7,8-PeCDD	--	--	--	1/39	0.000000026	0.000000026	0.000000002	4.18E-09	1.55E-09	6.54E-09
PeCDDs (total)	--	--	--	2/39	3.2E-09	0.000000026	1.8E-09	3.98E-09	1.65E-09	6.4E-09
1,2,3,4,7,8-HxCDD	--	--	--	1/39	0.000000026	0.000000026	0.000000002	3.97E-09	1.56E-09	6.23E-09
1,2,3,6,7,8-HxCDD	--	--	--	1/39	0.000000026	0.000000026	0.000000002	3.95E-09	1.54E-09	6.27E-09
1,2,3,7,8,9-HxCDD	--	--	--	4/39	9.5E-10	0.000000026	0.000000002	3.87E-09	1.64E-09	6.09E-09
HxCDDs (total)	--	--	--	4/38	4.7E-10	0.000000026	2.1E-09	4.18E-09	1.87E-09	6.26E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	9/39	9.7E-12	0.000000026	0.000000002	4.02E-09	1.94E-09	6.13E-09
HpCDDs (total)	--	--	--	8/38	8E-10	0.000000026	2.45E-09	4.27E-09	2.03E-09	6.32E-09
OCDD	--	--	--	10/39	0.000000003	0.000000051	5.5E-09	9.96E-09	5.46E-09	1.22E-08
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	39/39	2.4E-12	0.000000068	5.2E-09	1.04E-08	4.52E-09	1.57E-08

Table D-2
Summary of Groundwater Sample Analytical Results - 78-6&78-6R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics										
Antimony	--	8	80	3/7	0.0025	0.012	0.0300	0.0198	0.0139	0.0131
Arsenic	--	0.9	9	4/7	0.016	0.37	0.0160	0.0654	0.0179	0.135
Barium	--	50	100	6/7	0.031	0.16	0.0960	0.0971	0.0886	0.0388
Cadmium	--	0.004	0.05	1/7	0.006	0.006	0.00250	0.00307	0.00291	0.00130
Calcium	--	--	--	1/1	110	110	110	110	110	NA
Chromium	--	0.3	3	2/7	0.0025	0.028	0.00500	0.00814	0.00601	0.00884
Cobalt	--	0.075	--	3/7	0.0024	0.01	0.0250	0.0175	0.0127	0.0113
Copper	--	0.23	--	2/7	0.0018	0.091	0.0125	0.0217	0.0115	0.0310
Cyanide	--	0.03	2	4/7	0.0026	0.029	0.00500	0.00829	0.00568	0.00947
Lead	--	0.01	0.15	1/7	0.02	0.02	0.00150	0.0134	0.00400	0.0238
Magnesium	--	--	--	1/1	36	36	36.0	36.0	36.0	NA
Manganese	--	--	--	1/1	0.52	0.52	0.520	0.520	0.520	NA
Nickel	--	0.2	2	2/7	0.0027	0.011	0.0200	0.0177	0.0146	0.00859
Selenium	--	0.1	1	2/7	0.0049	0.0051	0.00250	0.00329	0.00313	0.00119
Silver	--	0.007	1	1/7	0.011	0.011	0.00250	0.00429	0.00354	0.00331
Sodium	--	--	--	1/1	42	42	42.0	42.0	42.0	NA
Sulfide	--	--	--	2/40	1.4	8.8	1.00	1.35	1.08	0.961
Vanadium	--	4	40	1/7	0.015	0.015	0.0250	0.0243	0.0239	0.00450
Zinc	--	0.9	50	5/8	0.0053	2	0.0105	0.264	0.0241	0.702
Inorganics-filtered										
Antimony	--	8	80	7/44	0.001	0.0082	0.0200	0.0152	0.00940	0.0107
Arsenic	--	0.9	9	9/43	0.0014	0.0102	0.00500	0.00654	0.00537	0.00749
Barium	--	50	100	40/44	0.0105	0.168	0.0778	0.0924	0.0797	0.0524
Beryllium	--	0.2	2	6/44	0.00031	0.00865	0.00200	0.00237	0.00162	0.00198
Cadmium	--	0.004	0.05	4/44	0.00012	0.00294	0.00250	0.00195	0.00144	0.00112
Calcium	--	--	--	1/1	170	170	170	170	170	NA
Chromium	--	0.3	3	4/44	0.001	0.0037	0.00500	0.00485	0.00461	0.00149
Cobalt	--	0.075	--	20/44	0.0002	0.00372	0.00500	0.00737	0.00358	0.00876

Table D-2
Summary of Groundwater Sample Analytical Results - 78-6&78-6R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Copper	--	0.23	--	7/44	0.001	0.00669	0.0125	0.0156	0.00841	0.0243
Cyanide	--	0.03	2	5/7	0.0021	0.011	0.00500	0.00491	0.00419	0.00312
Cyanide-MADEP (PAC)	--	0.03	2	4/31	0.002	0.01	0.00500	0.0208	0.00474	0.0905
Lead	--	0.01	0.15	8/44	0.00007	0.00843	0.00250	0.00325	0.00261	0.00184
Magnesium	--	--	--	1/1	51.4	51.4	51.4	51.4	51.4	NA
Manganese	--	--	--	1/1	0.602	0.602	0.602	0.602	0.602	NA
Mercury	--	0.02	0.2	3/44	0.000042	0.00037	0.000100	0.000153	0.000131	0.0000851
Nickel	--	0.2	2	6/44	0.0006	0.0028	0.0200	0.0134	0.00926	0.00874
Potassium	--	--	--	1/1	2.61	2.61	2.61	2.61	2.61	NA
Selenium	--	0.1	1	3/44	0.003	0.00957	0.00500	0.00659	0.00543	0.00430
Silver	--	0.007	1	2/44	0.0011	0.0011	0.00250	0.00276	0.00205	0.00166
Sodium	--	--	--	1/1	318	318	318	318	318	NA
Thallium	--	3	30	5/44	0.00003	0.00832	0.00500	0.00445	0.00372	0.00159
Tin	--	--	--	2/43	0.0011	0.0498	0.0250	0.0296	0.0233	0.0170
Vanadium	--	4	40	1/44	0.0007	0.0007	0.0250	0.0232	0.0207	0.00594
Zinc	--	0.9	50	17/44	0.00256	0.444	0.0100	0.0151	0.00940	0.0332

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-3
Summary of Groundwater Sample Analytical Results - GMA4-6
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs-Filtered										
Aroclor-1254	--	--	--	4/34	0.000034	0.00017	0.0000475	0.0000944	0.0000694	0.0000735
Aroclor-1260	--	--	--	1/34	0.000021	0.000021	0.0000475	0.0000896	0.0000641	0.0000737
Total PCBs	0.005	0.01	0.1	4/34	0.000034	0.00017	0.0000490	0.0000950	0.0000703	0.0000731
Volatile Organics										
2-Butanone	50	50	100	1/34	0.0035	0.0035	0.00250	0.00531	0.00391	0.00469
Acetone	50	50	100	4/34	0.0012	0.054	0.0130	0.0128	0.00847	0.0124
Bromodichloromethane	0.006	50	100	1/34	0.00018	0.00018	0.000500	0.000491	0.000485	0.0000549
Chloroform	0.05	20	100	13/34	0.00032	0.0047	0.000500	0.000951	0.000704	0.000994
Chloromethane	--	--	--	1/34	0.00077	0.00077	0.000500	0.000729	0.000688	0.000249
Tetrachloroethene	0.05	30	100	1/34	0.00068	0.00068	0.000500	0.000505	0.000505	0.0000309
Toluene	50	40	100	1/34	0.00032	0.00032	0.000500	0.000495	0.000493	0.0000309
Total VOCs	5	--	--	20/34	0.00032	0.054	0.00985	0.0333	0.00854	0.0392
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	4/33	0.00053	0.0016	0.00240	0.00247	0.00233	0.000831
Pentachloroethane	--	--	--	1/29	0.0097	0.0097	0.00260	0.00291	0.00279	0.00100
Total PAHs	--	--	--	3/3	0.0051	0.0055	0.00530	0.00527	0.00527	0.000153
Furans										
2,3,7,8-TCDF	--	--	--	2/27	1.20E-09	1.50E-09	1.10E-09	1.49E-09	9.66E-10	1.39E-09
TCDFs (total)	--	--	--	4/27	7.80E-10	2.30E-08	1.10E-09	2.68E-09	1.31E-09	4.72E-09
1,2,3,7,8-PeCDF	--	--	--	1/27	6.50E-09	6.50E-09	1.30E-09	4.14E-09	1.56E-09	6.32E-09
2,3,4,7,8-PeCDF	--	--	--	1/27	5.20E-09	5.20E-09	1.30E-09	4.07E-09	1.47E-09	6.32E-09
PeCDFs (total)	--	--	--	5/27	1.40E-09	1.20E-08	1.50E-09	4.33E-09	1.93E-09	6.21E-09
1,2,3,4,7,8-HxCDF	--	--	--	1/27	1.20E-09	1.20E-09	1.20E-09	3.99E-09	1.48E-09	6.31E-09
1,2,3,6,7,8-HxCDF	--	--	--	1/27	6.30E-10	6.30E-10	1.10E-09	3.95E-09	1.39E-09	6.33E-09
1,2,3,7,8,9-HxCDF	--	--	--	0/27	ND	ND	1.30E-09	4.02E-09	1.57E-09	6.30E-09
2,3,4,6,7,8-HxCDF	--	--	--	0/27	ND	ND	1.30E-09	3.97E-09	1.39E-09	6.33E-09
HxCDFs (total)	--	--	--	3/27	8.50E-10	2.10E-09	1.80E-09	3.79E-09	1.83E-09	5.96E-09
1,2,3,4,6,7,8-HpCDF	--	--	--	1/27	4.70E-10	4.70E-10	1.50E-09	3.94E-09	1.38E-09	6.34E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	0/27	ND	ND	1.80E-09	4.01E-09	1.48E-09	6.31E-09
HpCDFs (total)	--	--	--	5/27	3.00E-10	3.00E-09	1.90E-09	3.79E-09	1.77E-09	5.97E-09
OCDF	--	--	--	1/27	3.80E-08	3.80E-08	3.40E-09	8.69E-09	3.34E-09	1.36E-08

Table D-3
Summary of Groundwater Sample Analytical Results - GMA4-6
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Dioxins										
2,3,7,8-TCDD	--	--	--	1/27	2.20E-10	2.20E-10	1.10E-09	1.60E-09	1.11E-09	1.40E-09
TCDDs (total)	--	--	--	4/27	1.50E-09	4.10E-08	1.20E-09	2.31E-09	1.30E-09	3.97E-09
1,2,3,7,8-PeCDD	--	--	--	1/27	3.50E-10	3.50E-10	1.70E-09	4.26E-09	1.81E-09	6.28E-09
PeCDDs (total)	--	--	--	2/27	3.50E-10	3.50E-09	1.70E-09	3.84E-09	1.64E-09	6.05E-09
1,2,3,4,7,8-HxCDD	--	--	--	2/27	2.30E-10	2.70E-10	2.10E-09	4.33E-09	1.85E-09	6.24E-09
1,2,3,6,7,8-HxCDD	--	--	--	3/27	3.10E-10	1.00E-09	1.80E-09	4.32E-09	1.92E-09	6.23E-09
1,2,3,7,8,9-HxCDD	--	--	--	3/27	9.80E-10	1.80E-09	2.00E-09	4.43E-09	2.02E-09	6.18E-09
HxCDDs (total)	--	--	--	4/27	6.20E-10	8.60E-09	2.50E-09	4.30E-09	2.14E-09	6.00E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	4/27	1.10E-09	1.20E-08	2.50E-09	4.93E-09	2.35E-09	6.33E-09
HpCDDs (total)	--	--	--	6/27	5.00E-11	1.90E-08	2.40E-09	4.45E-09	1.88E-09	6.45E-09
OCDD	--	--	--	10/27	4.10E-09	4.00E-08	6.00E-09	1.16E-08	6.54E-09	1.34E-08
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	27/27	6.30E-10	6.80E-08	5.50E-09	1.29E-08	5.44E-09	1.99E-08
Inorganics										
Sulfide	--	--	--	2/28	1	1.1	1.00	0.804	0.757	0.259
Inorganics-filtered										
Antimony	--	8	80	3/33	0.0013	0.00696	0.0200	0.0119	0.00773	0.00883
Arsenic	--	0.9	9	1/32	0.0011	0.0012	0.00500	0.00541	0.00488	0.00367
Barium	--	50	100	20/33	0.005	0.0805	0.0220	0.0604	0.0303	0.0829
Beryllium	--	0.2	2	4/33	0.0002	0.0403	0.00200	0.00377	0.00287	0.00378
Cadmium	--	0.004	0.05	17/33	0.000051	0.0058	0.00189	0.00182	0.00109	0.00142
Calcium	--	--	--	1/1	109	112	111	111	111	NA
Chromium	--	0.3	3	4/33	0.00022	0.0109	0.00500	0.00472	0.00443	0.00109
Cobalt	--	0.075	--	9/33	0.000076	0.0026	0.00500	0.00759	0.00339	0.00863
Copper	--	0.23	--	9/33	0.0011	0.0374	0.00737	0.0193	0.00842	0.0311
Cyanide-MADEP (PAC)	--	0.03	2	1/30	0.027	0.027	0.00500	0.00460	0.00423	0.00245
Lead	--	0.01	0.15	8/33	0.00007	0.00899	0.00400	0.00362	0.00292	0.00170
Magnesium	--	--	--	1/1	37.3	38.2	37.8	37.8	37.8	NA
Manganese	--	--	--	1/1	0.0133	0.0146	0.0140	0.0140	0.0140	NA
Mercury	--	0.02	0.2	4/33	0.0000355	0.000063	0.000143	0.000156	0.000130	0.0000865
Nickel	--	0.2	2	13/33	0.0004	0.0512	0.00500	0.00921	0.00430	0.00974
Potassium	--	--	--	1/1	2.79	2.85	2.82	2.82	2.82	NA

Table D-3
Summary of Groundwater Sample Analytical Results - GMA4-6
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Selenium	--	0.1	1	5/33	0.00415	0.011	0.00962	0.00798	0.00694	0.00410
Silver	--	0.007	1	1/33	0.0012	0.0012	0.00250	0.00278	0.00185	0.00189
Sodium	--	--	--	1/1	97	100	98.5	98.5	98.5	NA
Thallium	--	3	30	4/33	0.00003	0.0105	0.00500	0.00446	0.00352	0.00180
Tin	--	--	--	2/32	0.001	0.0081	0.0375	0.0346	0.0271	0.0169
Vanadium	--	4	40	1/33	0.0011	0.0011	0.0250	0.0230	0.0201	0.00653
Zinc	--	0.9	50	19/33	0.00285	0.119	0.0100	0.0180	0.0124	0.0240

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-4
Summary of Groundwater Sample Analytical Results - H78B-15
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1221	--	--	--	1/8	0.0097	0.0097	0.0000330	0.00136	0.0000993	0.00339
Aroclor-1254	--	--	--	3/8	0.00002	0.000039	0.0000340	0.000249	0.0000709	0.000455
Total PCBs	0.005	0.01	0.1	4/8	0.00002	0.0097	0.0000340	0.00136	0.0000994	0.00339
PCBs-Filtered										
Aroclor-1221	--	--	--	1/45	0.0084	0.0084	0.0000350	0.000286	0.0000696	0.00125
Aroclor-1248	--	--	--	1/45	0.000029	0.000029	0.0000350	0.000117	0.0000655	0.000203
Aroclor-1254	--	--	--	8/45	0.000024	0.000033	0.0000370	0.000125	0.0000696	0.000204
Aroclor-1260	--	--	--	2/45	0.00019	0.00051	0.0000370	0.000120	0.0000684	0.000203
Total PCBs	0.005	0.01	0.1	11/45	0.000024	0.0084	0.0000480	0.000287	0.0000768	0.00124
Volatile Organics										
1,1-Dichloroethane	2	20	100	2/46	0.0001	0.00022	0.000500	0.00105	0.000747	0.000923
Acetone	50	50	100	1/46	0.0031	0.0031	0.0103	0.00938	0.00735	0.00761
Chlorobenzene	0.2	1	10	1/46	0.00063	0.00063	0.000500	0.00112	0.000804	0.00106
Chloroform	0.05	20	100	7/46	0.00013	0.0049	0.000500	0.00114	0.000765	0.00109
Chloromethane	--	--	--	1/46	0.00061	0.00061	0.00100	0.00139	0.00103	0.00134
Toluene	50	40	100	3/46	0.00015	0.0016	0.000500	0.00104	0.000765	0.000893
Trichloroethene	0.005	5	50	3/46	0.00023	0.00065	0.000500	0.00106	0.000781	0.000913
Total VOCs	5	--	--	11/46	0.00013	0.0062	0.0750	0.0598	0.0222	0.0438
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	3/45	0.00046	0.001	0.00260	0.00291	0.00255	0.00182
Diethylphthalate	50	9	100	2/45	0.00091	0.0023	0.00260	0.00339	0.00314	0.00135
Naphthalene	0.7	20	100	1/45	0.00062	0.00062	0.00260	0.00321	0.00294	0.00129
Total PAHs	--	--	--	3/3	0.005	0.0051	0.00510	0.00507	0.00507	0.0000577
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--

Table D-4
Summary of Groundwater Sample Analytical Results - H78B-15
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans										
2,3,7,8-TCDF	--	--	--	4/39	2.9E-10	5.10E-09	9.50E-10	1.49E-09	8.69E-10	1.40E-09
TCDFs (total)	--	--	--	8/39	2.9E-10	5.60E-08	1.10E-09	5.81E-09	1.38E-09	1.25E-08
1,2,3,7,8-PeCDF	--	--	--	8/39	3.5E-10	2.50E-08	1.80E-09	3.54E-09	1.34E-09	5.25E-09
2,3,4,7,8-PeCDF	--	--	--	2/39	1.6E-09	2.50E-08	1.30E-09	3.53E-09	1.13E-09	6.34E-09
PeCDFs (total)	--	--	--	9/39	9E-10	3.80E-08	1.80E-09	5.83E-09	1.71E-09	9.50E-09
1,2,3,4,7,8-HxCDF	--	--	--	2/39	0.000000001	2.50E-08	1.10E-09	3.58E-09	1.12E-09	6.36E-09
1,2,3,6,7,8-HxCDF	--	--	--	3/39	2.4E-10	2.50E-08	9.50E-10	3.45E-09	9.43E-10	6.39E-09
1,2,3,7,8,9-HxCDF	--	--	--	1/39	0.000000025	2.50E-08	1.30E-09	3.58E-09	1.10E-09	6.37E-09
2,3,4,6,7,8-HxCDF	--	--	--	2/39	1.1E-09	2.50E-08	1.10E-09	3.49E-09	9.90E-10	6.38E-09
HxCDFs (total)	--	--	--	5/39	2.3E-12	2.50E-08	1.40E-09	3.60E-09	1.34E-09	6.21E-09
1,2,3,4,6,7,8-HpCDF	--	--	--	5/39	3.2E-12	2.50E-08	1.30E-09	3.90E-09	1.20E-09	6.64E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	1/39	0.000000025	2.50E-08	1.30E-09	3.72E-09	1.18E-09	6.37E-09
HpCDFs (total)	--	--	--	5/39	3.2E-12	2.50E-08	1.30E-09	3.77E-09	1.30E-09	6.52E-09
OCDF	--	--	--	4/39	2.7E-09	5.10E-08	2.80E-09	7.69E-09	2.74E-09	1.29E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	2/39	5.2E-10	5.10E-09	1.00E-09	1.33E-09	8.16E-10	1.20E-09
TCDDs (total)	--	--	--	6/39	7.8E-10	2.00E-08	1.10E-09	2.51E-09	1.14E-09	4.00E-09
1,2,3,7,8-PeCDD	--	--	--	2/39	1.5E-09	2.50E-08	1.30E-09	3.70E-09	1.25E-09	6.32E-09
PeCDDs (total)	--	--	--	8/39	1.5E-09	2.50E-08	2.50E-09	4.26E-09	1.79E-09	6.29E-09
1,2,3,4,7,8-HxCDD	--	--	--	3/39	2.4E-10	2.50E-08	1.40E-09	3.72E-09	1.29E-09	6.30E-09
1,2,3,6,7,8-HxCDD	--	--	--	2/39	1.6E-09	2.50E-08	1.60E-09	3.69E-09	1.23E-09	6.31E-09
1,2,3,7,8,9-HxCDD	--	--	--	1/39	0.000000025	2.50E-08	1.30E-09	3.71E-09	1.24E-09	6.31E-09
HxCDDs (total)	--	--	--	6/39	2.2E-12	2.50E-08	2.00E-09	3.85E-09	1.52E-09	6.34E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	6/39	1.3E-09	3.40E-08	2.10E-09	5.20E-09	1.97E-09	7.92E-09
HpCDDs (total)	--	--	--	7/39	2.8E-12	3.40E-08	2.10E-09	4.63E-09	1.63E-09	7.81E-09
OCDD	--	--	--	6/39	2.6E-11	5.10E-08	5.00E-09	9.52E-09	4.22E-09	1.28E-08
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	39/39	1.7E-12	6.80E-08	4.10E-09	1.01E-08	3.99E-09	1.70E-08

Table D-4
Summary of Groundwater Sample Analytical Results - H78B-15
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics										
Antimony	--	8	80	2/8	0.0029	0.0099	0.0300	0.0205	0.0129	0.0134
Arsenic	--	0.9	9	1/8	0.02	0.02	0.00500	0.00614	0.00464	0.00577
Barium	--	50	100	7/8	0.0043	0.15	0.0347	0.0506	0.0295	0.0510
Beryllium	--	0.2	2	1/8	0.00093	0.00093	0.000500	0.00106	0.000620	0.00108
Cadmium	--	0.004	0.05	1/8	0.0025	0.0025	0.00250	0.00227	0.00180	0.000874
Chromium	--	0.3	3	2/8	0.0029	0.043	0.00500	0.00915	0.00502	0.0138
Cobalt	--	0.075	--	2/8	0.00066	0.031	0.0250	0.0233	0.0167	0.00950
Copper	--	0.23	--	5/8	0.0068	0.081	0.0110	0.0195	0.0134	0.0250
Cyanide	--	0.03	2	2/8	0.0037	0.012	0.00500	0.00634	0.00586	0.00296
Lead	--	0.01	0.15	1/8	0.031	0.031	0.00150	0.0131	0.00337	0.0234
Nickel	--	0.2	2	3/8	0.0036	0.056	0.0200	0.0222	0.0172	0.0159
Sulfide	--	--	--	3/40	6.4	14	1.00	1.79	1.15	2.46
Vanadium	--	4	40	1/8	0.033	0.033	0.0250	0.0235	0.0152	0.00987
Zinc	--	0.9	50	6/8	0.007	0.22	0.0135	0.0473	0.0216	0.0742
Inorganics-filtered										
Antimony	--	8	80	6/45	0.00017	0.01	0.0200	0.0144	0.00831	0.0109
Arsenic	--	0.9	9	4/44	0.0019	0.0152	0.00500	0.00648	0.00525	0.00756
Barium	--	50	100	32/45	0.0045	0.07	0.0260	0.0526	0.0241	0.0743
Beryllium	--	0.2	2	4/45	0.00059	0.00529	0.00200	0.00233	0.00154	0.00185
Cadmium	--	0.004	0.05	3/45	0.000044	0.00088	0.00250	0.00186	0.00128	0.00118
Calcium	--	--	--	1/1	236	236	236	236	236	NA
Chromium	--	0.3	3	5/45	0.00079	0.0026	0.00500	0.00461	0.00413	0.00180
Cobalt	--	0.075	--	1/45	0.000098	0.000098	0.0250	0.0160	0.0106	0.0102
Copper	--	0.23	--	14/45	0.0011	0.00737	0.00500	0.0161	0.00713	0.0276
Cyanide	--	0.03	2	3/8	0.0021	0.014	0.00500	0.00574	0.00508	0.00349
Cyanide-MADEP (PAC)	--	0.03	2	1/31	0.0018	0.0018	0.00500	0.0207	0.00469	0.0905
Lead	--	0.01	0.15	6/45	0.002	0.00826	0.00250	0.00318	0.00274	0.00166
Magnesium	--	--	--	1/1	97.8	97.8	97.8	97.8	97.8	NA

Table D-4
Summary of Groundwater Sample Analytical Results - H78B-15
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 / Method 2 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Mercury	--	0.02	0.2	3/45	0.00002	0.000052	0.000100	0.000142	0.000121	0.0000780
Nickel	--	0.2	2	5/45	0.0004	0.00519	0.0200	0.0141	0.00996	0.00861
Potassium	--	--	--	1/1	8.23	8.23	8.23	8.23	8.23	NA
Selenium	--	0.1	1	4/45	0.00388	0.021	0.00500	0.00683	0.00556	0.00472
Silver	--	0.007	1	1/45	0.0014	0.0014	0.00250	0.00274	0.00196	0.00168
Sodium	--	--	--	1/1	170	170	170	170	170	NA
Thallium	--	3	30	4/45	0.0015	0.0136	0.00500	0.00476	0.00423	0.00204
Tin	--	--	--	2/44	0.0015	0.00892	0.0250	0.0282	0.0216	0.0171
Vanadium	--	4	40	1/45	0.00587	0.00587	0.0250	0.0231	0.0200	0.00628
Zinc	--	0.9	50	14/45	0.00324	0.194	0.0100	0.0169	0.0104	0.0318

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-5
Summary of Groundwater Sample Analytical Results - OPCA-MW-1R&OPCA-MW-1RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs-Filtered										
Aroclor-1248	--	--	--	2/32	0.000036	0.000063	0.0000500	0.0000949	0.0000707	0.0000727
Aroclor-1254	--	--	--	7/32	0.000031	0.001	0.0000945	0.000121	0.0000875	0.000103
Aroclor-1260	--	--	--	3/32	0.000076	0.00021	0.0000525	0.000101	0.0000758	0.0000742
Total PCBs	0.005	0.01	0.1	7/32	0.000088	0.001	0.000115	0.000136	0.0000972	0.000115
Volatile Organics										
1,1-Dichloroethene	0.08	30	100	1/31	0.00032	0.00034	0.0130	0.0510	0.0142	0.0733
Acetone	50	50	100	1/31	0.053	0.053	0.320	0.621	0.220	0.705
Chloroform	0.05	20	100	10/32	0.0032	0.0096	0.0100	0.0490	0.0159	0.0726
cis-1,2-Dichloroethene	100	0.02	50	1/1	0.017	0.017	0.0170	0.0170	0.0170	NA
Methylene Chloride	2	50	100	2/31	0.03	0.39	0.0650	0.235	0.0664	0.341
Tetrachloroethene	0.05	30	100	32/32	0.012	5.6	1.75	2.04	1.21	1.43
Toluene	50	40	100	1/31	0.022	0.022	0.0130	0.0514	0.0148	0.0731
trans-1,2-Dichloroethene	0.08	50	100	1/31	0.00035	0.00037	0.0130	0.0510	0.0143	0.0733
Trichloroethene	0.005	5	50	25/32	0.011	0.042	0.0245	0.0464	0.0209	0.0679
Xylenes (total)	3	5	100	1/31	0.015	0.015	0.0380	0.0738	0.0279	0.0790
Total VOCs	5	--	--	32/32	0.012	5.7	1.75	2.08	1.23	1.45
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	1/32	0.00077	0.00077	0.00250	0.00265	0.00253	0.000867
Phenol	50	2	100	1/32	0.0034	0.0034	0.00260	0.00281	0.00274	0.000750
Total PAHs	--	--	--	3/3	0.0051	0.0052	0.00520	0.00517	0.00517	0.0000577
Furans										
2,3,7,8-TCDF	--	--	--	4/26	8.8E-10	5.2E-09	8.15E-10	1.54E-09	9.93E-10	1.52E-09
TCDFs (total)	--	--	--	7/26	1.2E-09	0.00000035	1.6E-09	1.55E-08	1.78E-09	6.83E-08
1,2,3,7,8-PeCDF	--	--	--	1/26	0.000000026	0.000000026	1.25E-09	4.63E-09	1.44E-09	7.93E-09
2,3,4,7,8-PeCDF	--	--	--	7/26	5.7E-10	0.000000026	1.6E-09	3.4E-09	1.43E-09	6.1E-09
PeCDFs (total)	--	--	--	9/26	5.7E-10	0.00000031	2.55E-09	1.73E-08	2.85E-09	6.02E-08
1,2,3,4,7,8-HxCDF	--	--	--	6/26	1.3E-09	0.000000026	0.000000002	3.79E-09	1.69E-09	6.2E-09
1,2,3,6,7,8-HxCDF	--	--	--	7/26	4E-10	0.000000026	1.8E-09	3.88E-09	1.54E-09	7.32E-09
1,2,3,7,8,9-HxCDF	--	--	--	1/26	0.000000026	0.000000026	1.4E-09	4.73E-09	1.67E-09	7.88E-09
2,3,4,6,7,8-HxCDF	--	--	--	7/26	7.7E-10	0.000000026	1.55E-09	3.81E-09	1.55E-09	7.33E-09
HxCDFs (total)	--	--	--	10/25	4.4E-10	0.00000014	2.6E-09	1.18E-08	3.07E-09	2.82E-08

Table D-5
Summary of Groundwater Sample Analytical Results - OPCA-MW-1R&OPCA-MW-1RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans (cont.)										
1,2,3,4,6,7,8-HpCDF	--	--	--	9/26	1.1E-09	6.2E-09	2.35E-09	3.33E-09	1.75E-09	5.55E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	3/26	7.7E-10	0.00000026	1.85E-09	4.81E-09	1.75E-09	7.85E-09
HpCDFs (total)	--	--	--	7/25	3.6E-10	0.00000012	2.5E-09	3.84E-09	2.11E-09	5.81E-09
OCDF	--	--	--	5/26	0.00000002	0.00000013	3.8E-09	7.41E-09	3.59E-09	1.18E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	1/26	5.2E-09	5.2E-09	8E-10	1.45E-09	9.71E-10	1.41E-09
TCDDs (total)	--	--	--	4/26	1.7E-09	5.2E-09	9.75E-10	1.53E-09	1.13E-09	1.34E-09
1,2,3,7,8-PeCDD	--	--	--	2/26	8.5E-10	0.00000026	1.65E-09	4.77E-09	1.75E-09	7.86E-09
PeCDDs (total)	--	--	--	3/26	2.5E-10	0.00000026	2.35E-09	4.17E-09	1.94E-09	6.54E-09
1,2,3,4,7,8-HxCDD	--	--	--	3/26	2.3E-10	0.00000026	1.7E-09	4.91E-09	1.93E-09	7.82E-09
1,2,3,6,7,8-HxCDD	--	--	--	2/26	3.6E-10	0.00000026	1.6E-09	4.9E-09	1.87E-09	7.82E-09
1,2,3,7,8,9-HxCDD	--	--	--	2/26	2.1E-09	0.00000026	1.95E-09	4.97E-09	1.94E-09	7.79E-09
HxCDDs (total)	--	--	--	6/25	4.3E-10	0.00000026	1.7E-09	4.44E-09	2.01E-09	7.48E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	5/26	1.8E-09	0.00000008	2.5E-09	4.84E-09	2.53E-09	6.31E-09
HpCDDs (total)	--	--	--	7/25	5.8E-10	0.00000016	2.5E-09	5.04E-09	2.65E-09	6.55E-09
OCDD	--	--	--	11/26	6.4E-09	0.00000035	9.1E-09	1.29E-08	7.92E-09	0.00000013
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	26/26	7E-10	0.00000071	5.35E-09	1.15E-08	5.07E-09	1.88E-08
Inorganics										
Sulfide	--	--	--	2/28	1.2	1.3	1.00	0.813	0.757	0.285
Inorganics-filtered										
Antimony	--	8	80	8/32	0.0001	0.00327	0.00314	0.0107	0.00548	0.00927
Arsenic	--	0.9	9	2/31	0.0013	0.00195	0.00500	0.00533	0.00475	0.00378
Barium	--	50	100	24/32	0.0277	0.0882	0.0516	0.0647	0.0556	0.0508
Beryllium	--	0.2	2	3/32	0.00053	0.0143	0.00200	0.00329	0.00265	0.00255
Cadmium	--	0.004	0.05	23/32	0.00006	0.0273	0.00245	0.00386	0.00230	0.00512
Calcium	--	--	--	1/1	118	118	118	118	118	NA
Chromium	--	0.3	3	4/32	0.00153	0.00348	0.00500	0.00453	0.00427	0.00116
Cobalt	--	0.075	--	1/32	0.000028	0.000028	0.00500	0.0138	0.00879	0.0102
Copper	--	0.23	--	6/32	0.0011	0.00659	0.00685	0.0189	0.00827	0.0314
Lead	--	0.01	0.15	8/32	0.00016	0.00982	0.00320	0.00366	0.00293	0.00211
Magnesium	--	--	--	1/1	56.1	56.1	56.1	56.1	56.1	NA

Table D-5
Summary of Groundwater Sample Analytical Results - OPCA-MW-1R&OPCA-MW-1RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 / Method 2 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Manganese	--	--	--	1/1	0.109	0.109	0.109	0.109	0.109	NA
Mercury	--	0.02	0.2	3/32	0.0000373	0.000091	0.000143	0.000164	0.000140	0.0000833
Nickel	--	0.2	2	2/32	0.00041	0.0012	0.0200	0.0140	0.00999	0.00879
Potassium	--	--	--	1/1	3.31	3.31	3.31	3.31	3.31	NA
Selenium	--	0.1	1	5/32	0.00297	0.0045	0.00750	0.00762	0.00644	0.00435
Sodium	--	--	--	1/1	216	216	216	216	216	NA
Thallium	--	3	30	5/32	0.00003	0.0102	0.00500	0.00451	0.00345	0.00219
Tin	--	--	--	3/31	0.0012	0.02	0.0250	0.0341	0.0263	0.0170
Vanadium	--	4	40	2/32	0.0007	0.00665	0.0250	0.0223	0.0189	0.00724
Zinc	--	0.9	50	14/32	0.00409	0.0803	0.0100	0.0146	0.0115	0.0145

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-6
Summary of Groundwater Sample Analytical Results - OPCA-MW-2R&OPCA-MW-2RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	4/7	0.000033	0.00014	0.0000330	0.0000677	0.0000543	0.0000474
Aroclor-1260	--	--	--	3/7	0.000022	0.00047	0.0000330	0.0000969	0.0000491	0.000165
Total PCBs	0.005	0.01	0.1	5/7	0.000022	0.00061	0.0000330	0.000141	0.0000689	0.000212
PCBs-Filtered										
Aroclor-1248	--	--	--	1/43	0.000032	0.000032	0.0000360	0.0000777	0.0000566	0.0000682
Aroclor-1254	--	--	--	11/43	0.000018	0.00026	0.0000500	0.0000923	0.0000676	0.0000727
Aroclor-1260	--	--	--	2/43	0.00045	0.00067	0.0000360	0.0000983	0.0000620	0.000124
Total PCBs	0.005	0.01	0.1	12/43	0.000018	0.00093	0.0000500	0.000114	0.0000717	0.000153
Volatile Organics										
1,1,1-Trichloroethane	4	20	100	2/44	0.00013	0.00013	0.000500	0.00103	0.000729	0.000915
2-Butanone	50	50	100	3/44	0.0014	0.0054	0.00455	0.00642	0.00452	0.00785
4-Methyl-2-pentanone	50	50	100	1/44	0.0019	0.0019	0.00250	0.00317	0.00300	0.00114
Acetone	50	50	100	12/44	0.0012	0.077	0.00610	0.0135	0.00802	0.0168
Bromodichloromethane	0.006	50	100	1/44	0.00019	0.00019	0.000500	0.00104	0.000759	0.000907
Chlorobenzene	0.2	1	10	1/44	0.0028	0.0028	0.000500	0.00105	0.000778	0.000913
Chloroform	0.05	20	100	2/44	0.00023	0.00047	0.000500	0.00104	0.000761	0.000906
Chloromethane	--	--	--	1/44	0.00033	0.00033	0.00100	0.00127	0.000988	0.000989
Tetrachloroethene	0.05	30	100	1/44	0.003	0.003	0.000500	0.000727	0.000642	0.000499
Toluene	50	40	100	5/44	0.00013	0.0025	0.000500	0.00102	0.000744	0.000881
Trichloroethene	0.005	5	50	1/44	0.0011	0.0011	0.000500	0.00106	0.000790	0.000897
Trichlorofluoromethane	--	--	--	1/44	0.0004	0.00041	0.00100	0.00119	0.000948	0.000839
Xylenes (total)	3	5	100	1/44	0.00025	0.00025	0.00150	0.00206	0.00145	0.00177
Total VOCs	5	--	--	22/43	0.00013	0.077	0.0450	0.0465	0.0170	0.0421
Semivolatile Organics										
1,2,4-Trichlorobenzene	0.2	50	100	1/44	0.0016	0.0016	0.00270	0.00336	0.00319	0.00115
bis(2-Ethylhexyl)phthalate	--	50	100	1/44	0.0012	0.0012	0.00270	0.00279	0.00266	0.000844
Diethylphthalate	50	9	100	1/44	0.0025	0.0025	0.00270	0.00339	0.00321	0.00118
Di-n-Octylphthalate	--	--	--	1/44	0.00058	0.00058	0.00270	0.00335	0.00311	0.00124
Total PAHs	--	--	--	3/3	0.0051	0.0053	0.00510	0.00517	0.00517	0.000115
Organochlorine Pesticides										
None Detected	--	--	--	0/2	0/2	--	--	--	--	--

Table D-6
Summary of Groundwater Sample Analytical Results - OPCA-MW-2R&OPCA-MW-2RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Organophosphate Pesticides										
None Detected	--	--	--	0/2	0/2	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	0/2	--	--	--	--	--
Furans										
2,3,7,8-TCDF	--	--	--	2/38	0.000000002	3.2E-09	8.5E-10	1.37E-09	9.45E-10	1.19E-09
TCDFs (total)	--	--	--	7/38	8.1E-10	0.000000005	1.15E-09	2.96E-09	1.39E-09	6.99E-09
1,2,3,7,8-PeCDF	--	--	--	3/38	2.2E-09	4.3E-09	1.4E-09	2.72E-09	1.2E-09	3.75E-09
2,3,4,7,8-PeCDF	--	--	--	0/38	ND	ND	1.3E-09	3.23E-09	1.39E-09	5.33E-09
PeCDFs (total)	--	--	--	5/38	0.000000003	0.000000049	1.45E-09	3.96E-09	1.59E-09	6.36E-09
1,2,3,4,7,8-HxCDF	--	--	--	4/38	0.000000002	5.5E-09	1.25E-09	2.82E-09	1.3E-09	3.76E-09
1,2,3,6,7,8-HxCDF	--	--	--	2/38	4.6E-10	1.2E-09	1.2E-09	3.3E-09	1.26E-09	5.34E-09
1,2,3,7,8,9-HxCDF	--	--	--	1/38	1.8E-09	1.8E-09	1.45E-09	3.58E-09	1.72E-09	5.3E-09
2,3,4,6,7,8-HxCDF	--	--	--	1/38	1.7E-09	1.7E-09	1.3E-09	3.43E-09	1.57E-09	5.3E-09
HxCDFs (total)	--	--	--	5/37	7E-10	0.000000017	2.3E-09	3.49E-09	1.72E-09	3.94E-09
1,2,3,4,6,7,8-HpCDF	--	--	--	6/38	3E-10	8.8E-09	1.35E-09	2.66E-09	1.41E-09	3.63E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	2/38	9.8E-10	3.9E-09	1.65E-09	3.72E-09	1.76E-09	5.39E-09
HpCDFs (total)	--	--	--	7/37	1.6E-10	0.000000014	1.7E-09	4.23E-09	1.98E-09	5.96E-09
OCDF	--	--	--	2/38	3.7E-09	0.000000022	4.25E-09	7.99E-09	4.01E-09	1.12E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	1/38	2.7E-10	2.7E-10	1.1E-09	1.37E-09	1.06E-09	1.06E-09
TCDDs (total)	--	--	--	4/38	9.8E-10	2.1E-09	1.25E-09	1.55E-09	1.2E-09	1.43E-09
1,2,3,7,8-PeCDD	--	--	--	2/38	5.3E-10	6.5E-10	1.95E-09	3.61E-09	1.88E-09	5.24E-09
PeCDDs (total)	--	--	--	3/38	6.5E-10	0.000000001	1.75E-09	0.000000003	1.72E-09	3.66E-09
1,2,3,4,7,8-HxCDD	--	--	--	3/38	3.5E-10	1.4E-09	2.25E-09	3.7E-09	1.9E-09	5.21E-09
1,2,3,6,7,8-HxCDD	--	--	--	2/38	5.1E-10	8.1E-10	2.15E-09	3.64E-09	1.59E-09	5.25E-09
1,2,3,7,8,9-HxCDD	--	--	--	1/38	1.8E-09	1.8E-09	2.3E-09	3.69E-09	1.61E-09	5.22E-09
HxCDDs (total)	--	--	--	6/37	6.7E-10	0.000000012	2.5E-09	3.46E-09	1.85E-09	3.96E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	5/38	2.4E-09	8.6E-09	2.45E-09	3.9E-09	2.26E-09	4.12E-09
HpCDDs (total)	--	--	--	9/37	1.3E-09	0.000000002	2.5E-09	4.33E-09	2.35E-09	5.29E-09
OCDD	--	--	--	13/38	8.6E-09	0.000000051	7.5E-09	2.78E-08	7.05E-09	8.54E-08
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	38/38	0.000000001	0.000000065	5.4E-09	1.04E-08	5.48E-09	1.63E-08

Table D-6
Summary of Groundwater Sample Analytical Results - OPCA-MW-2R&OPCA-MW-2RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics										
Antimony	--	8	80	1/7	0.012	0.012	0.0300	0.0274	0.0263	0.00680
Arsenic	--	0.9	9	1/7	0.019	0.019	0.00500	0.00671	0.00562	0.00547
Barium	--	50	100	6/7	0.019	0.13	0.0200	0.0487	0.0348	0.0464
Beryllium	--	0.2	2	1/7	0.00082	0.00082	0.000500	0.000903	0.000693	0.000932
Cadmium	--	0.004	0.05	1/7	0.003	0.003	0.00250	0.00264	0.00263	0.000244
Chromium	--	0.3	3	2/7	0.0032	0.051	0.00500	0.0126	0.00774	0.0172
Cobalt	--	0.075	--	2/7	0.0025	0.018	0.0250	0.0215	0.0176	0.00908
Copper	--	0.23	--	2/7	0.0028	0.051	0.0125	0.0172	0.0128	0.0155
Lead	--	0.01	0.15	1/7	0.018	0.018	0.00150	0.0131	0.00394	0.0237
Mercury	--	0.02	0.2	1/7	0.0004	0.0004	0.000100	0.000164	0.000139	0.000118
Nickel	--	0.2	2	1/7	0.036	0.036	0.0200	0.0237	0.0230	0.00658
Selenium	--	0.1	1	1/7	0.0089	0.0089	0.00250	0.00349	0.00308	0.00239
Silver	--	0.007	1	1/7	0.0018	0.0018	0.00250	0.00297	0.00273	0.00158
Sulfide	--	--	--	5/40	0.66	4.8	1.00	1.42	1.15	0.963
Vanadium	--	4	40	2/7	0.003	0.038	0.0250	0.0244	0.0201	0.0106
Zinc	--	0.9	50	3/7	0.011	0.15	0.0110	0.0314	0.0166	0.0523
Inorganics-filtered										
Antimony	--	8	80	4/43	0.0011	0.0071	0.0200	0.0155	0.00989	0.0109
Arsenic	--	0.9	9	1/42	0.00255	0.00255	0.00500	0.00631	0.00502	0.00763
Barium	--	50	100	33/43	0.0016	0.0435	0.0200	0.0371	0.0245	0.0507
Beryllium	--	0.2	2	2/43	0.00386	0.00954	0.00200	0.00259	0.00179	0.00208
Cadmium	--	0.004	0.05	5/43	0.00009	0.00263	0.00250	0.00188	0.00131	0.00117
Calcium	--	--	--	1/1	116	116	116	116	116	NA
Chromium	--	0.3	3	4/43	0.0011	0.00307	0.00500	0.00498	0.00459	0.00199
Cobalt	--	0.075	--	2/43	0.000056	0.001	0.0250	0.0164	0.0115	0.00997
Copper	--	0.23	--	2/43	0.0016	0.0052	0.0125	0.0188	0.0110	0.0273
Lead	--	0.01	0.15	7/43	0.0011	0.0042	0.00250	0.00302	0.00261	0.00152
Magnesium	--	--	--	1/1	55	55	55.0	55.0	55.0	NA
Manganese	--	--	--	1/1	0.0111	0.0111	0.0111	0.0111	0.0111	NA
Mercury	--	0.02	0.2	2/43	0.000054	0.00021	0.000100	0.000153	0.000135	0.0000771
Nickel	--	0.2	2	10/43	0.00036	0.00638	0.0200	0.0132	0.00865	0.00890

Table D-6
Summary of Groundwater Sample Analytical Results - OPCA-MW-2R&OPCA-MW-2RR
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Potassium	--	--	--	1/1	1.87	1.87	1.87	1.87	1.87	NA
Selenium	--	0.1	1	10/43	0.00272	0.0111	0.00500	0.00624	0.00520	0.00419
Silver	--	0.007	1	1/43	0.0011	0.0011	0.00250	0.00271	0.00196	0.00166
Sodium	--	--	--	1/1	17	17	17.0	17.0	17.0	NA
Thallium	--	3	30	3/43	0.0014	0.0107	0.00500	0.00444	0.00396	0.00171
Tin	--	--	--	2/42	0.0014	0.00262	0.0250	0.0282	0.0217	0.0169
Vanadium	--	4	40	2/42	0.0007	0.0012	0.0250	0.0228	0.0194	0.00679
Zinc	--	0.9	50	16/43	0.00252	0.021	0.0100	0.0107	0.00946	0.00542

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-7
Summary of Groundwater Sample Analytical Results - OPCA-MW-3&OPCA-MW-3R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	4/7	0.000037	0.000084	0.0000370	0.0000430	0.0000410	0.0000166
Total PCBs	0.005	0.01	0.1	4/7	0.000037	0.000084	0.0000370	0.0000430	0.0000410	0.0000166
PCBs-Filtered										
Aroclor-1248	--	--	--	3/43	0.000025	0.00031	0.0000350	0.0000844	0.0000595	0.0000772
Aroclor-1254	--	--	--	10/44	0.00003	0.00029	0.0000480	0.0000886	0.0000648	0.0000749
Aroclor-1260	--	--	--	1/43	0.000039	0.000039	0.0000350	0.0000784	0.0000574	0.0000687
Total PCBs	0.005	0.01	0.1	10/44	0.000033	0.0006	0.0000490	0.0000979	0.0000686	0.000103
Volatile Organics										
Acetone	50	50	100	5/45	0.0013	0.021	0.00700	0.00936	0.00713	0.00789
Carbon Disulfide	--	--	--	1/45	0.00055	0.00055	0.00100	0.00128	0.000990	0.00100
Chlorobenzene	0.2	1	10	1/45	0.00057	0.00068	0.000500	0.00104	0.000772	0.000893
Methylene Chloride	2	50	100	1/45	0.00035	0.00035	0.00250	0.00239	0.00230	0.000440
Total VOCs	5	--	--	7/45	0.00055	0.021	0.0500	0.0630	0.0397	0.0383
Semivolatile Organics										
4-Nitroaniline	--	--	--	1/45	0.0043	0.0043	0.0130	0.0138	0.00972	0.00923
bis(2-Ethylhexyl)phthalate	--	50	100	2/45	0.00085	0.0095	0.00260	0.00295	0.00273	0.00135
Di-n-Butylphthalate	--	--	--	1/45	0.0018	0.0018	0.00270	0.00343	0.00321	0.00136
Phenol	50	2	100	1/44	0.011	0.011	0.00265	0.00343	0.00321	0.00138
Total PAHs	--	--	--	3/3	0.0051	0.0053	0.00530	0.00527	0.00527	0.0000577
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Furans										
2,3,7,8-TCDF	--	--	--	6/39	1.8E-12	5.9E-09	0.000000001	1.61E-09	8.75E-10	1.52E-09
TCDFs (total)	--	--	--	7/39	6.5E-12	8.8E-09	1.3E-09	1.93E-09	1.11E-09	1.89E-09
1,2,3,7,8-PeCDF	--	--	--	4/39	4.1E-12	0.000000026	1.3E-09	3.59E-09	1.15E-09	6.38E-09

Table D-7
Summary of Groundwater Sample Analytical Results - OPCA-MW-3&OPCA-MW-3R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans (cont.)										
2,3,4,7,8-PeCDF	--	--	--	3/39	8.6E-10	0.000000026	1.3E-09	3.57E-09	1.11E-09	6.39E-09
PeCDFs (total)	--	--	--	8/39	8.5E-12	0.000000026	1.7E-09	3.52E-09	1.4E-09	6.17E-09
1,2,3,4,7,8-HxCDF	--	--	--	3/39	3.2E-12	0.000000026	1.2E-09	3.24E-09	1.02E-09	6.2E-09
1,2,3,6,7,8-HxCDF	--	--	--	4/39	5.3E-10	0.000000026	1.2E-09	3.21E-09	9.94E-10	6.2E-09
1,2,3,7,8,9-HxCDF	--	--	--	2/39	2.3E-10	0.000000026	1.3E-09	3.67E-09	1.15E-09	6.42E-09
2,3,4,6,7,8-HxCDF	--	--	--	3/39	2.3E-12	0.000000026	1.2E-09	3.22E-09	9.91E-10	6.2E-09
HxCDFs (total)	--	--	--	6/38	5.3E-10	0.000000026	1.5E-09	3.28E-09	1.29E-09	6.04E-09
1,2,3,4,6,7,8-HpCDF	--	--	--	7/39	3.2E-10	0.000000003	1.3E-09	2.37E-09	1.03E-09	4.52E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	2/39	4.1E-10	0.000000026	1.4E-09	3.75E-09	1.26E-09	6.36E-09
HpCDFs (total)	--	--	--	9/38	2.9E-10	4.4E-09	1.5E-09	2.51E-09	1.25E-09	4.35E-09
OCDF	--	--	--	3/39	9E-10	6.4E-09	2.5E-09	6.37E-09	2.62E-09	1.05E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	1/39	5.3E-09	5.3E-09	9.5E-10	1.46E-09	8.43E-10	1.31E-09
TCDDs (total)	--	--	--	3/39	5E-10	5.3E-09	1.1E-09	1.62E-09	9.7E-10	1.48E-09
1,2,3,7,8-PeCDD	--	--	--	3/39	1.9E-12	0.000000026	1.7E-09	3.76E-09	1.39E-09	6.33E-09
PeCDDs (total)	--	--	--	4/39	1.9E-12	0.000000026	2.1E-09	3.75E-09	1.51E-09	6.17E-09
1,2,3,4,7,8-HxCDD	--	--	--	2/39	2.3E-12	0.000000026	1.7E-09	3.79E-09	1.4E-09	6.31E-09
1,2,3,6,7,8-HxCDD	--	--	--	3/39	3.1E-12	0.000000026	1.6E-09	3.76E-09	1.38E-09	6.32E-09
1,2,3,7,8,9-HxCDD	--	--	--	3/39	6.9E-10	0.000000026	1.7E-09	3.8E-09	1.42E-09	6.31E-09
HxCDDs (total)	--	--	--	5/38	5.5E-12	0.000000026	1.7E-09	3.84E-09	1.58E-09	6.33E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	6/39	0.000000001	4.1E-09	1.8E-09	3.09E-09	1.55E-09	4.61E-09
HpCDDs (total)	--	--	--	6/38	7.6E-10	8.4E-09	1.95E-09	3.23E-09	1.58E-09	4.68E-09
OCDD	--	--	--	9/39	1.4E-09	0.000000025	0.000000005	7.05E-09	3.89E-09	9.31E-09
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	39/39	3.4E-12	0.000000066	5.3E-09	9.75E-09	3.96E-09	1.63E-08
Inorganics										
Arsenic	--	0.9	9	1/7	0.0042	0.0042	0.00500	0.00460	0.00453	0.000766
Barium	--	50	100	6/7	0.0095	0.11	0.0760	0.0708	0.0564	0.0379
Chromium	--	0.3	3	2/7	0.0013	0.0041	0.00500	0.00584	0.00531	0.00313
Cobalt	--	0.075	--	3/7	0.0021	0.0036	0.0250	0.0161	0.00977	0.0127

Table D-7
Summary of Groundwater Sample Analytical Results - OPCA-MW-3&OPCA-MW-3R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics (cont.)										
Copper	--	0.23	--	4/7	0.0028	0.0075	0.00730	0.00914	0.00798	0.00478
Cyanide	--	0.03	2	2/7	0.0022	0.0027	0.00500	0.00519	0.00482	0.00231
Nickel	--	0.2	2	4/7	0.0021	0.0052	0.0126	0.0135	0.00971	0.0103
Selenium	--	0.1	1	1/7	0.0054	0.0054	0.00250	0.00299	0.00286	0.00108
Sulfide	--	--	--	1/40	6.4	6.4	1.00	1.33	1.05	0.959
Zinc	--	0.9	50	4/7	0.011	0.088	0.0113	0.0273	0.0193	0.0285
Inorganics-filtered										
Antimony	--	8	80	7/44	0.0012	0.01	0.0200	0.0155	0.0101	0.0104
Arsenic	--	0.9	9	1/44	0.0011	0.0011	0.00500	0.00632	0.00517	0.00743
Barium	--	50	100	35/44	0.0129	0.12	0.0573	0.0638	0.0564	0.0370
Beryllium	--	0.2	2	6/44	0.0003	0.00713	0.00200	0.00243	0.00165	0.00194
Cadmium	--	0.004	0.05	10/44	0.00007	0.00081	0.00250	0.00188	0.00123	0.00119
Calcium	--	--	--	1/1	104	104	104	104	104	NA
Chromium	--	0.3	3	11/44	0.00063	0.075	0.00500	0.00612	0.00414	0.0109
Cobalt	--	0.075	--	18/44	0.00018	0.0044	0.00500	0.00774	0.00377	0.00908
Copper	--	0.23	--	23/44	0.001	0.019	0.00500	0.0167	0.00599	0.0311
Cyanide-MADEP (PAC)	--	0.03	2	1/31	0.0013	0.0013	0.00500	0.00413	0.00391	0.00120
Lead	--	0.01	0.15	7/44	0.00021	0.00564	0.00250	0.00311	0.00261	0.00158
Magnesium	--	--	--	1/1	22.4	22.4	22.4	22.4	22.4	NA
Manganese	--	--	--	1/1	2.25	2.25	2.25	2.25	2.25	NA
Mercury	--	0.02	0.2	4/44	0.0000383	0.000197	0.000100	0.000145	0.000126	0.0000779
Nickel	--	0.2	2	27/44	0.0009	0.00664	0.00455	0.00761	0.00537	0.00737
Potassium	--	--	--	1/1	1.9	1.9	1.90	1.90	1.90	NA
Selenium	--	0.1	1	2/44	0.004	0.0077	0.00500	0.00677	0.00554	0.00425
Silver	--	0.007	1	4/43	0.0007	0.0014	0.00250	0.00253	0.00186	0.00160
Sodium	--	--	--	1/1	14.2	14.2	14.2	14.2	14.2	NA
Thallium	--	3	30	9/44	0.00012	0.011	0.00500	0.00466	0.00409	0.00174
Tin	--	--	--	1/43	0.0011	0.0011	0.0250	0.0287	0.0224	0.0169

Table D-7
Summary of Groundwater Sample Analytical Results - OPCA-MW-3&OPCA-MW-3R
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On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Vanadium	- -	4	40	5/44	0.0009	0.003	0.0250	0.0213	0.0161	0.00853
Zinc	- -	0.9	50	14/44	0.00178	0.032	0.0100	0.0113	0.0103	0.00535

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-8
Summary of Groundwater Sample Analytical Results - OPCA-MW-4
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	7/7	0.000055	0.00089	0.0002	0.000391	0.000254	0.000344
Aroclor-1260	--	--	--	2/7	0.00011	0.00047	0.000033	0.000105	0.0000551	0.000163
Total PCBs	0.005	0.01	0.1	7/7	0.000055	0.0013	0.0002	0.00048	0.00028	0.000477
PCBs-Filtered										
Aroclor-1248	--	--	--	4/44	0.00014	0.00038	0.0000420	0.000102	0.0000696	0.0000913
Aroclor-1254	--	--	--	30/44	0.000029	0.0015	0.000145	0.000355	0.000173	0.000394
Aroclor-1260	--	--	--	5/44	0.000043	0.00047	0.0000385	0.0000922	0.0000640	0.0000898
Total PCBs	0.005	0.01	0.1	33/44	0.000029	0.0016	0.000205	0.000395	0.000200	0.000420
Volatile Organics										
Acetone	50	50	100	5/45	0.0014	0.026	0.00500	0.00934	0.00670	0.00842
Benzene	1	10	100	3/45	0.00013	0.00036	0.000500	0.00101	0.000706	0.000915
Chlorobenzene	0.2	1	10	10/45	0.00012	0.0023	0.000500	0.00108	0.000744	0.000944
Chloroform	0.05	20	100	1/45	0.00025	0.00025	0.000500	0.00103	0.000756	0.000899
Chloromethane	--	--	--	1/45	0.00039	0.00068	0.00100	0.00125	0.000969	0.000986
Methylene Chloride	2	50	100	1/45	0.00086	0.00086	0.00250	0.00237	0.00230	0.000437
Toluene	50	40	100	5/45	0.00014	0.0088	0.000500	0.00110	0.000751	0.00122
Trichloroethene	0.005	5	50	37/45	0.00087	0.0021	0.00120	0.00141	0.00131	0.000550
Vinyl Chloride	0.002	50	100	4/45	0.00032	0.0028	0.000500	0.000771	0.000639	0.000762
Xylenes (total)	3	5	100	2/45	0.00025	0.0022	0.00150	0.00203	0.00140	0.00177
Total VOCs	5	--	--	38/45	0.00087	0.027	0.00180	0.0159	0.00318	0.0336
Semivolatile Organics										
1,2,4-Trichlorobenzene	0.2	50	100	6/45	0.0006	0.016	0.00260	0.00377	0.00331	0.00232
1,3-Dichlorobenzene	6	50	100	1/45	0.0014	0.0014	0.00260	0.00333	0.00313	0.00121
1,4-Dichlorobenzene	0.06	8	80	4/45	0.00028	0.0032	0.00260	0.00329	0.00298	0.00129
bis(2-Ethylhexyl)phthalate	--	50	100	1/45	0.01	0.01	0.00260	0.00296	0.00277	0.00134
Di-n-Butylphthalate	--	--	--	1/45	0.0025	0.0025	0.00260	0.00335	0.00317	0.00118
Naphthalene	0.7	20	100	1/45	0.00023	0.00023	0.00260	0.00327	0.00295	0.00131
Total PAHs	--	--	--	3/3	0.005	0.0053	0.00500	0.00510	0.00510	0.000173
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--

Table D-8
Summary of Groundwater Sample Analytical Results - OPCA-MW-4
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 2 / Method 3 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Furans										
2,3,7,8-TCDF	--	--	--	11/39	1.4E-11	9.4E-09	1.5E-09	2.33E-09	1.35E-09	2.26E-09
TCDFs (total)	--	--	--	25/39	3.7E-10	0.00000076	0.00000007	6.81E-08	9.04E-09	0.000000149
1,2,3,7,8-PeCDF	--	--	--	7/39	1E-11	0.000000025	2.1E-09	4.66E-09	1.82E-09	6.46E-09
2,3,4,7,8-PeCDF	--	--	--	10/39	1.7E-09	0.000000025	2.1E-09	3.5E-09	1.85E-09	4.64E-09
PeCDFs (total)	--	--	--	26/39	3E-10	0.00000036	0.000000029	5.53E-08	1.61E-08	8.16E-08
1,2,3,4,7,8-HxCDF	--	--	--	9/39	3.3E-11	0.000000025	2.5E-09	4.08E-09	2.01E-09	6.16E-09
1,2,3,6,7,8-HxCDF	--	--	--	5/39	3.4E-10	0.000000025	1.6E-09	3.43E-09	1.28E-09	6.24E-09
1,2,3,7,8,9-HxCDF	--	--	--	4/39	2.2E-10	0.000000025	1.7E-09	3.2E-09	1.41E-09	4.92E-09
2,3,4,6,7,8-HxCDF	--	--	--	7/39	6E-10	0.000000025	1.5E-09	3.49E-09	1.4E-09	6.22E-09
HxCDFs (total)	--	--	--	20/38	1.2E-10	0.000000051	4.95E-09	9.82E-09	5.03E-09	1.16E-08
1,2,3,4,6,7,8-HpCDF	--	--	--	9/39	1.2E-11	6.6E-09	1.8E-09	3.37E-09	1.43E-09	5.3E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	3/39	3.4E-12	0.000000025	1.5E-09	3.71E-09	1.3E-09	6.38E-09
HpCDFs (total)	--	--	--	9/38	2.1E-11	0.000000012	2.2E-09	3.57E-09	1.73E-09	5.31E-09
OCDF	--	--	--	6/39	1.5E-11	0.000000023	3.6E-09	6.69E-09	3.13E-09	1.01E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	1/39	5.1E-09	5.1E-09	1.1E-09	1.4E-09	8.24E-10	1.27E-09
TCDDs (total)	--	--	--	9/39	7.5E-10	0.000000073	1.3E-09	6.59E-09	1.48E-09	0.000000017
1,2,3,7,8-PeCDD	--	--	--	2/39	4.7E-09	0.000000025	2.3E-09	4.1E-09	1.59E-09	6.44E-09
PeCDDs (total)	--	--	--	9/39	0.000000001	0.000000073	2.6E-09	9.31E-09	2.92E-09	0.000000015
1,2,3,4,7,8-HxCDD	--	--	--	1/39	0.000000025	0.000000025	2.2E-09	4.03E-09	1.54E-09	6.41E-09
1,2,3,6,7,8-HxCDD	--	--	--	1/39	0.000000025	0.000000025	1.9E-09	3.99E-09	1.49E-09	6.45E-09
1,2,3,7,8,9-HxCDD	--	--	--	2/39	8.8E-10	0.000000025	2.5E-09	4.05E-09	1.62E-09	6.4E-09
HxCDDs (total)	--	--	--	7/38	8.8E-10	0.000000025	2.6E-09	0.000000004	2.11E-09	4.96E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	6/39	4.8E-12	0.000000025	2.3E-09	4.24E-09	1.9E-09	6.34E-09
HpCDDs (total)	--	--	--	6/38	8E-12	0.000000025	2.55E-09	4.38E-09	1.91E-09	6.39E-09

Table D-8
Summary of Groundwater Sample Analytical Results - OPCA-MW-4
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Dioxins (cont.)										
OCDD	--	--	--	13/39	2.8E-11	0.000000031	0.000000006	7.98E-09	4.83E-09	6.96E-09
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	39/39	1E-11	0.00000006	6.9E-09	1.02E-08	5.02E-09	0.000000015
Inorganics										
Barium	--	50	100	6/7	0.027	0.08	0.0450	0.0536	0.0480	0.0276
Copper	--	0.23	--	2/7	0.005	0.0054	0.0125	0.0110	0.0101	0.00422
Cyanide	--	0.03	2	1/7	0.0029	0.0029	0.00500	0.00541	0.00511	0.00217
Lead	--	0.01	0.15	1/7	0.0023	0.0023	0.00230	0.0110	0.00316	0.0238
Nickel	--	0.2	2	2/7	0.002	0.0029	0.0200	0.0164	0.0116	0.0102
Silver	--	0.007	1	1/7	0.0011	0.0011	0.00250	0.00287	0.00255	0.00168
Sulfide	--	--	--	3/41	1	4	1.00	1.34	1.10	0.892
Zinc	--	0.9	50	5/7	0.013	0.3	0.0270	0.0663	0.0319	0.105
Inorganics-filtered										
Antimony	--	8	80	8/45	0.001	0.012	0.0200	0.0150	0.00936	0.0106
Barium	--	50	100	35/45	0.00875	0.14	0.0290	0.0508	0.0355	0.0590
Beryllium	--	0.2	2	5/45	0.00053	0.0162	0.00200	0.00283	0.00184	0.00294
Cadmium	--	0.004	0.05	17/45	0.00006	0.0032	0.00150	0.00165	0.00108	0.00122
Calcium	--	--	--	1/1	122	122	122	122	122	NA
Chromium	--	0.3	3	6/45	0.0006	0.0023	0.00500	0.00458	0.00405	0.00185
Cobalt	--	0.075	--	3/45	0.000025	0.05	0.0250	0.0171	0.0116	0.0112
Copper	--	0.23	--	5/45	0.0013	0.004	0.0125	0.0176	0.00925	0.0271
Cyanide	--	0.03	2	1/7	0.0016	0.0018	0.00500	0.00453	0.00429	0.00125
Cyanide-MADEP (PAC)	--	0.03	2	2/31	0.0013	0.002	0.00500	0.00418	0.00395	0.00122
Lead	--	0.01	0.15	6/45	0.0021	0.00425	0.00250	0.00307	0.00269	0.00147
Magnesium	--	--	--	1/1	23.3	23.3	23.3	23.3	23.3	NA
Mercury	--	0.02	0.2	2/45	0.000034	0.000053	0.000100	0.000147	0.000129	0.0000772
Nickel	--	0.2	2	9/45	0.00028	0.00585	0.0200	0.0133	0.00854	0.00891
Potassium	--	--	--	1/1	2.83	2.83	2.83	2.83	2.83	NA
Selenium	--	0.1	1	7/45	0.0032	0.00806	0.00500	0.00622	0.00520	0.00414
Silver	--	0.007	1	1/45	0.0008	0.0008	0.00250	0.00275	0.00200	0.00166
Sodium	--	--	--	1/1	49.5	49.5	49.5	49.5	49.5	NA

Table D-8
Summary of Groundwater Sample Analytical Results - OPCA-MW-4
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Thallium	--	3	30	6/45	0.0014	0.00936	0.00500	0.00461	0.00410	0.00176
Tin	--	--	--	2/44	0.0174	0.0332	0.0250	0.0291	0.0245	0.0156
Vanadium	--	4	40	2/45	0.0022	0.0024	0.0250	0.0230	0.0205	0.00637
Zinc	--	0.9	50	34/45	0.00229	0.29	0.0128	0.0346	0.0179	0.0547

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compound as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-9
Summary of Groundwater Sample Analytical Results - OPCA-MW-5&OPCA-MW-5R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	4/7	0.000033	0.0002	0.0000330	0.0000594	0.0000447	0.0000628
Aroclor-1260	--	--	--	3/7	0.000036	0.00027	0.0000330	0.0000801	0.0000530	0.0000914
Total PCBs	0.005	0.01	0.1	5/7	0.000033	0.00033	0.0000580	0.000117	0.0000721	0.000127
PCBs-Filtered										
Aroclor-1254	--	--	--	12/44	0.000013	0.00026	0.0000480	0.0000885	0.0000639	0.0000723
Aroclor-1260	--	--	--	5/44	0.000011	0.00024	0.0000370	0.0000843	0.0000596	0.0000732
Total PCBs	0.005	0.01	0.1	14/44	0.000013	0.00026	0.0000500	0.0000976	0.0000698	0.0000784
Volatile Organics										
2-Butanone	50	50	100	1/45	0.0051	0.0051	0.00250	0.00632	0.00447	0.00778
4-Methyl-2-pentanone	50	50	100	1/45	0.0027	0.0027	0.00250	0.00317	0.00301	0.00112
Acetone	50	50	100	5/45	0.0024	0.058	0.00500	0.0111	0.00765	0.0115
Benzene	1	10	100	10/45	0.00012	0.00058	0.000500	0.000981	0.000650	0.000933
Chlorobenzene	0.2	1	10	24/45	0.00011	0.021	0.00180	0.00291	0.00145	0.00422
Methylene Chloride	2	50	100	1/45	0.00022	0.00022	0.00250	0.00238	0.00227	0.000454
Toluene	50	40	100	6/45	0.00011	0.0015	0.000500	0.000960	0.000692	0.000855
Vinyl Chloride	0.002	50	100	8/45	0.00029	0.0071	0.000500	0.000888	0.000673	0.00117
Total VOCs	5	--	--	29/45	0.00011	0.058	0.0130	0.0324	0.00971	0.0394
Semivolatile Organics										
1,4-Dichlorobenzene	0.06	8	80	5/45	0.00055	0.0018	0.00260	0.00320	0.00287	0.00138
2,4-Dimethylphenol	40	50	100	1/43	0.0038	0.0038	0.00260	0.00337	0.00319	0.00117
Acenaphthene	--	10	100	1/45	0.011	0.011	0.00260	0.00343	0.00311	0.00169
bis(2-Ethylhexyl)phthalate	--	50	100	1/45	0.0012	0.0012	0.00260	0.00281	0.00270	0.000802
Dibenzofuran	--	--	--	1/45	0.0038	0.0038	0.00260	0.00327	0.00304	0.00124
Diethylphthalate	50	9	100	2/45	0.0011	0.0091	0.00260	0.00348	0.00321	0.00149
Di-n-Butylphthalate	--	--	--	1/45	0.0028	0.0028	0.00260	0.00337	0.00319	0.00118
Naphthalene	0.7	20	100	3/45	0.00093	0.062	0.00260	0.00460	0.00320	0.00887
Total PAHs	--	--	--	3/3	0.005	0.0053	0.00500	0.00510	0.00510	0.000173
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--

Table D-9
Summary of Groundwater Sample Analytical Results - OPCA-MW-5&OPCA-MW-5R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Furans										
2,3,7,8-TCDF	--	--	--	11/39	1.7E-09	0.000000032	1.30E-09	3.22E-09	1.27E-09	5.44E-09
TCDFs (total)	--	--	--	20/39	1.2E-09	0.000000069	2.50E-09	5.06E-08	3.57E-09	1.42E-07
1,2,3,7,8-PeCDF	--	--	--	6/39	1.5E-09	0.000000025	1.40E-09	3.56E-09	1.30E-09	5.63E-09
2,3,4,7,8-PeCDF	--	--	--	10/39	9.2E-10	0.000000065	2.10E-09	5.98E-09	1.39E-09	1.19E-08
PeCDFs (total)	--	--	--	18/39	5.5E-10	0.00000009	2.60E-09	6.31E-08	3.06E-09	1.83E-07
1,2,3,4,7,8-HxCDF	--	--	--	9/39	2.3E-09	0.000000059	2.30E-09	7.00E-09	1.59E-09	1.32E-08
1,2,3,6,7,8-HxCDF	--	--	--	7/39	2.3E-10	0.000000047	1.60E-09	5.50E-09	1.26E-09	1.02E-08
1,2,3,7,8,9-HxCDF	--	--	--	2/39	3.7E-09	0.000000025	1.30E-09	3.63E-09	1.02E-09	6.30E-09
2,3,4,6,7,8-HxCDF	--	--	--	8/39	8.5E-10	0.000000045	1.90E-09	5.17E-09	1.51E-09	9.21E-09
HxCDFs (total)	--	--	--	15/38	8.7E-10	0.00000006	2.60E-09	4.69E-08	3.11E-09	1.24E-07
1,2,3,4,6,7,8-HpCDF	--	--	--	9/39	5.5E-10	0.000000022	1.90E-09	1.07E-08	1.67E-09	3.60E-08
1,2,3,4,7,8,9-HpCDF	--	--	--	5/39	1.3E-09	0.000000028	2.00E-09	4.32E-09	1.34E-09	7.25E-09
HpCDFs (total)	--	--	--	9/38	2E-11	0.000000043	2.55E-09	1.86E-08	1.71E-09	7.18E-08
OCDF	--	--	--	9/39	1.7E-09	0.000000015	4.90E-09	1.28E-08	3.50E-09	2.69E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	2/39	0.000000005	6.7E-09	7.00E-10	1.33E-09	7.42E-10	1.54E-09
TCDDs (total)	--	--	--	6/39	9.9E-10	0.000000041	9.00E-10	2.73E-09	9.80E-10	6.72E-09
1,2,3,7,8-PeCDD	--	--	--	3/39	7.4E-10	0.000000025	1.30E-09	3.53E-09	1.18E-09	6.00E-09
PeCDDs (total)	--	--	--	5/39	3.3E-09	0.000000035	2.10E-09	1.36E-08	1.51E-09	5.62E-08
1,2,3,4,7,8-HxCDD	--	--	--	3/39	2.6E-09	0.000000025	1.70E-09	3.56E-09	1.35E-09	6.00E-09
1,2,3,6,7,8-HxCDD	--	--	--	3/39	7.6E-10	0.000000025	1.60E-09	3.64E-09	1.38E-09	6.04E-09
1,2,3,7,8,9-HxCDD	--	--	--	5/39	0.000000001	0.000000025	1.60E-09	3.77E-09	1.49E-09	6.09E-09
HxCDDs (total)	--	--	--	8/38	8.4E-10	0.000000017	2.55E-09	1.02E-08	2.11E-09	2.97E-08
1,2,3,4,6,7,8-HpCDD	--	--	--	9/39	5.9E-10	0.000000013	2.50E-09	9.15E-09	2.27E-09	2.27E-08
HpCDDs (total)	--	--	--	10/38	1.8E-09	0.000000027	2.60E-09	1.56E-08	2.34E-09	4.76E-08
OCDD	--	--	--	14/36	2.5E-09	0.000000012	8.00E-09	6.86E-08	9.31E-09	2.39E-07
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	39/39	3.5E-12	0.000000007	5.70E-09	1.18E-08	4.83E-09	1.84E-08

Table D-9
Summary of Groundwater Sample Analytical Results - OPCA-MW-5&OPCA-MW-5R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics										
Arsenic	--	0.9	9	1/7	0.0079	0.0079	0.00500	0.00513	0.00496	0.00143
Barium	--	50	100	6/7	0.023	0.078	0.0520	0.0561	0.0504	0.0267
Cadmium	--	0.004	0.05	1/7	0.0008	0.0008	0.00250	0.00233	0.00218	0.000699
Chromium	--	0.3	3	2/7	0.0043	0.014	0.00500	0.00640	0.00589	0.00342
Cobalt	--	0.075	--	2/7	0.0045	0.0062	0.0250	0.0201	0.0165	0.0103
Copper	--	0.23	--	3/7	0.0056	0.011	0.0125	0.0112	0.0107	0.00353
Cyanide	--	0.03	2	3/7	0.0022	0.051	0.00500	0.0125	0.00748	0.0172
Lead	--	0.01	0.15	4/7	0.003	0.034	0.00420	0.0164	0.00642	0.0244
Mercury	--	0.02	0.2	1/7	0.00005	0.00005	0.000100	0.000114	0.000103	0.0000627
Nickel	--	0.2	2	1/7	0.0074	0.0074	0.0200	0.0196	0.0184	0.00655
Sulfide	--	--	--	3/41	1	8	1.00	1.50	1.13	1.37
Vanadium	--	4	40	2/7	0.0015	0.0066	0.0250	0.0197	0.0142	0.0110
Zinc	--	0.9	50	5/7	0.011	0.05	0.0150	0.0259	0.0217	0.0167
Inorganics-filtered										
Antimony	--	8	80	4/44	0.0017	0.014	0.0200	0.0153	0.0101	0.0105
Arsenic	--	0.9	9	1/43	0.0014	0.0014	0.00500	0.00636	0.00520	0.00751
Barium	--	50	100	36/44	0.015	0.099	0.0468	0.0523	0.0453	0.0367
Beryllium	--	0.2	2	5/44	0.00033	0.0122	0.00200	0.00814	0.00188	0.0374
Cadmium	--	0.004	0.05	22/44	0.00005	0.003	0.00160	0.00171	0.00130	0.00109
Calcium	--	--	--	1/1	73	73	73.0	73.0	73.0	NA
Chromium	--	0.3	3	4/44	0.00069	0.0018	0.00500	0.00477	0.00436	0.00167
Cobalt	--	0.075	--	7/44	0.00009	0.0068	0.00670	0.0139	0.00853	0.0104
Copper	--	0.23	--	20/44	0.0013	0.019	0.00500	0.0125	0.00564	0.0244
Cyanide	--	0.03	2	1/7	0.0023	0.0023	0.00500	0.00461	0.00447	0.00102
Cyanide-MADEP (PAC)	--	0.03	2	2/31	0.0017	0.013	0.00500	0.00456	0.00424	0.00195
Lead	--	0.01	0.15	14/44	0.0004	0.00657	0.00250	0.00304	0.00247	0.00173
Magnesium	--	--	--	1/1	23	23	23.0	23.0	23.0	NA
Manganese	--	--	--	1/1	0.0015	0.0015	0.00150	0.00150	0.00150	NA
Mercury	--	0.02	0.2	2/44	0.0000356	0.000052	0.000100	0.000149	0.000130	0.0000773
Nickel	--	0.2	2	17/44	0.0004	0.00498	0.00500	0.00936	0.00504	0.00894
Potassium	--	--	--	1/1	1.99	1.99	1.99	1.99	1.99	NA

Table D-9
Summary of Groundwater Sample Analytical Results - OPCA-MW-5&OPCA-MW-5R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Selenium	--	0.1	1	3/44	0.0029	0.00331	0.00500	0.00633	0.00521	0.00428
Silver	--	0.007	1	1/44	0.0012	0.0012	0.00250	0.00270	0.00198	0.00164
Sodium	--	--	--	1/1	88.9	88.9	88.9	88.9	88.9	NA
Thallium	--	3	30	6/44	0.00003	0.00828	0.00500	0.00437	0.00337	0.00165
Tin	--	--	--	3/43	0.00102	0.0044	0.0250	0.0279	0.0213	0.0168
Vanadium	--	4	40	8/44	0.0006	0.00627	0.0250	0.0198	0.0130	0.00979
Zinc	--	0.9	50	35/44	0.0036	0.263	0.0181	0.0335	0.0202	0.0472

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-10
Summary of Groundwater Sample Analytical Results - OPCA-MW-6
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	4/6	0.000091	0.00012	0.0000955	0.0000828	0.0000723	0.0000402
Aroclor-1260	--	--	--	2/6	0.00003	0.000086	0.000033	0.00004	0.0000364	0.0000228
Total PCBs	0.005	0.01	0.1	4/6	0.000091	0.00021	0.000106	0.000103	0.0000829	0.0000669
PCBs-Filtered										
Aroclor-1248	--	--	--	1/43	0.00004	0.00004	0.0000340	0.0000773	0.0000562	0.0000683
Aroclor-1254	--	--	--	11/43	0.000013	0.00037	0.0000470	0.0000929	0.0000659	0.0000804
Aroclor-1260	--	--	--	3/43	0.000026	0.00014	0.0000350	0.0000802	0.0000586	0.0000685
Total PCBs	0.005	0.01	0.1	11/43	0.000013	0.00051	0.0000490	0.0000991	0.0000691	0.0000934
Volatile Organics										
Acetone	50	50	100	3/44	0.0015	0.053	0.0130	0.0107	0.00791	0.0101
Chloromethane	--	--	--	1/44	0.00081	0.00081	0.00100	0.00122	0.000957	0.000975
Toluene	50	40	100	2/44	0.00027	0.0016	0.000500	0.000974	0.000730	0.000854
Total VOCs	5	--	--	6/44	0.00027	0.053	0.0500	0.0626	0.0384	0.0379
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	2/44	0.0022	0.011	0.00260	0.00299	0.00281	0.00146
Diethylphthalate	50	9	100	1/44	0.0008	0.0008	0.00260	0.00329	0.00310	0.00120
Total PAHs	--	--	--	3/3	0.005	0.0051	0.00500	0.00503	0.00503	0.0000577
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Furans										
2,3,7,8-TCDF	--	--	--	8/38	5.7E-10	5.8E-09	1.10E-09	1.68E-09	1.17E-09	1.50E-09
TCDFs (total)	--	--	--	13/38	5.7E-10	0.0000001	1.25E-09	5.58E-09	1.77E-09	1.62E-08
1,2,3,7,8-PeCDF	--	--	--	2/38	3.2E-10	2.4E-09	1.20E-09	3.21E-09	1.36E-09	5.51E-09
2,3,4,7,8-PeCDF	--	--	--	0/38	ND	ND	9.75E-10	3.15E-09	1.19E-09	5.54E-09
PeCDFs (total)	--	--	--	8/38	3.2E-10	0.00000016	1.60E-09	7.70E-09	1.95E-09	2.59E-08
1,2,3,4,7,8-HxCDF	--	--	--	1/38	1.3E-09	1.3E-09	1.15E-09	3.45E-09	1.40E-09	5.54E-09
1,2,3,6,7,8-HxCDF	--	--	--	1/38	1.3E-09	1.3E-09	1.02E-09	3.37E-09	1.25E-09	5.56E-09
1,2,3,7,8,9-HxCDF	--	--	--	1/38	2.4E-10	2.4E-10	1.25E-09	3.55E-09	1.50E-09	5.56E-09
2,3,4,6,7,8-HxCDF	--	--	--	0/38	ND	ND	1.15E-09	3.43E-09	1.31E-09	5.56E-09

Table D-10
Summary of Groundwater Sample Analytical Results - OPCA-MW-6
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans (cont.)										
HxCDFs (total)	--	--	--	5/37	2.4E-10	4.6E-09	1.50E-09	3.80E-09	1.80E-09	5.61E-09
1,2,3,4,6,7,8-HpCDF	--	--	--	5/38	6.5E-10	5.2E-09	1.20E-09	3.29E-09	1.40E-09	5.37E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	0/38	ND	ND	1.20E-09	3.60E-09	1.45E-09	5.66E-09
HpCDFs (total)	--	--	--	5/37	4E-10	5.2E-09	1.20E-09	3.24E-09	1.54E-09	5.21E-09
OCDF	--	--	--	5/38	1.2E-09	0.000000019	2.70E-09	7.19E-09	3.49E-09	1.06E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	1/38	4.9E-10	4.9E-10	9.00E-10	1.29E-09	9.52E-10	1.14E-09
TCDDs (total)	--	--	--	4/38	4.9E-10	2.1E-09	1.05E-09	1.53E-09	1.12E-09	1.53E-09
1,2,3,7,8-PeCDD	--	--	--	0/38	ND	ND	1.35E-09	3.45E-09	1.57E-09	5.49E-09
PeCDDs (total)	--	--	--	3/38	3.2E-09	6.7E-09	1.90E-09	3.54E-09	1.87E-09	5.25E-09
1,2,3,4,7,8-HxCDD	--	--	--	0/38	ND	ND	1.45E-09	3.61E-09	1.61E-09	5.49E-09
1,2,3,6,7,8-HxCDD	--	--	--	1/38	3.5E-10	3.5E-10	1.35E-09	3.60E-09	1.59E-09	5.52E-09
1,2,3,7,8,9-HxCDD	--	--	--	1/38	1.9E-09	1.9E-09	1.50E-09	3.65E-09	1.68E-09	5.48E-09
HxCDDs (total)	--	--	--	3/37	9E-10	5.4E-09	1.70E-09	3.76E-09	1.92E-09	5.47E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	3/38	8.8E-10	3.5E-09	1.70E-09	4.03E-09	1.96E-09	5.66E-09
HpCDDs (total)	--	--	--	6/37	3.9E-10	0.000000006	1.60E-09	3.49E-09	1.78E-09	5.31E-09
OCDD	--	--	--	10/38	2.9E-09	0.000000016	4.70E-09	8.31E-09	4.86E-09	1.01E-08
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	38/38	5.5E-10	0.000000068	4.00E-09	9.91E-09	4.74E-09	1.67E-08
Inorganics										
Antimony	--	8	80	1/6	0.0084	0.0084	0.0300	0.0264	0.0243	0.00882
Barium	--	50	100	4/6	0.017	0.053	0.0415	0.0530	0.0412	0.0386
Copper	--	0.23	--	2/6	0.004	0.005	0.0125	0.0105	0.00929	0.00491
Cyanide	--	0.03	2	1/6	0.0042	0.0042	0.00500	0.00570	0.00545	0.00213
Lead	--	0.01	0.15	1/6	0.0022	0.0022	0.00185	0.0124	0.00326	0.0258
Selenium	--	0.1	1	1/6	0.0057	0.0057	0.00250	0.00312	0.00296	0.00128
Sulfide	--	--	--	2/40	1.4	4.8	1.00	1.30	1.03	0.973
Zinc	--	0.9	50	4/6	0.0057	0.021	0.0115	0.0132	0.0119	0.00615
Inorganics-filtered										
Antimony	--	8	80	7/43	0.00026	0.0077	0.0200	0.0153	0.00940	0.0107
Arsenic	--	0.9	9	3/43	0.00213	0.0045	0.00500	0.00627	0.00500	0.00754
Barium	--	50	100	29/43	0.00343	0.197	0.0320	0.0646	0.0323	0.0790
Beryllium	--	0.2	2	3/43	0.00053	0.00366	0.00200	0.00239	0.00170	0.00179
Cadmium	--	0.004	0.05	3/43	0.00018	0.00328	0.00250	0.00196	0.00147	0.00114

Table D-10
Summary of Groundwater Sample Analytical Results - OPCA-MW-6
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Calcium	--	--	--	1/1	44.8	44.8	44.8	44.8	44.8	NA
Chromium	--	0.3	3	9/43	0.0008	0.00344	0.00500	0.00448	0.00401	0.00187
Cobalt	--	0.075	--	1/43	0.000026	0.000026	0.0250	0.0162	0.0110	0.0101
Copper	--	0.23	--	9/43	0.001	0.00617	0.0125	0.0189	0.00972	0.0280
Cyanide	--	0.03	2	5/8	0.0016	0.0037	0.00295	0.00328	0.00294	0.00157
Cyanide-MADEP (PAC)	--	0.03	2	1/31	0.003	0.003	0.00500	0.00433	0.00419	0.00104
Lead	--	0.01	0.15	8/43	0.00008	0.00718	0.00250	0.00308	0.00243	0.00184
Magnesium	--	--	--	1/1	12.1	12.1	12.1	12.1	12.1	NA
Manganese	--	--	--	1/1	0.0035	0.0035	0.00350	0.00350	0.00350	NA
Mercury	--	0.02	0.2	3/43	0.000041	0.00021	0.000100	0.000152	0.000131	0.0000802
Nickel	--	0.2	2	3/43	0.00039	0.0012	0.0200	0.0152	0.0109	0.00840
Potassium	--	--	--	1/1	1.01	1.01	1.01	1.01	1.01	NA
Selenium	--	0.1	1	1/43	0.0059	0.0059	0.00500	0.00683	0.00562	0.00425
Sodium	--	--	--	1/1	127	127	127	127	127	NA
Thallium	--	3	30	2/43	0.0019	0.00656	0.00500	0.00448	0.00411	0.00129
Tin	--	--	--	3/42	0.00108	0.00939	0.0250	0.0291	0.0221	0.0170
Zinc	--	0.9	50	17/43	0.00277	0.16	0.0100	0.0149	0.0109	0.0234

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-11
Summary of Groundwater Sample Analytical Results - OPCA-MW-7
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	1/5	0.000085	0.000085	0.0000330	0.0000420	0.0000380	0.0000242
Total PCBs	0.005	0.01	0.1	1/5	0.000085	0.000085	0.0000330	0.0000420	0.0000380	0.0000242
PCBs-Filtered										
Aroclor-1254	--	--	--	12/41	0.00003	0.0026	0.0000660	0.000209	0.0000939	0.000433
Aroclor-1260	--	--	--	5/41	0.000031	0.002	0.0000390	0.000154	0.0000728	0.000330
Total PCBs	0.005	0.01	0.1	13/41	0.00003	0.0046	0.0000660	0.000288	0.000101	0.000766
Volatile Organics										
2-Butanone	50	50	100	4/44	0.0021	0.005	0.00320	0.00619	0.00439	0.00780
4-Methyl-2-pentanone	50	50	100	1/44	0.0021	0.0021	0.00250	0.00312	0.00296	0.00110
Acetone	50	50	100	8/44	0.0055	0.094	0.00630	0.0141	0.00850	0.0179
Benzene	1	10	100	1/44	0.00052	0.00052	0.000500	0.000989	0.000725	0.000884
Bromodichloromethane	0.006	50	100	1/44	0.00034	0.00034	0.000500	0.000996	0.000741	0.000878
Chloroform	0.05	20	100	1/44	0.00081	0.00081	0.000500	0.00101	0.000756	0.000873
Dibromochloromethane	0.02	50	100	1/44	0.00014	0.00014	0.000500	0.000992	0.000726	0.000882
Dibromomethane	--	--	--	1/44	0.0026	0.0026	0.00100	0.00123	0.000973	0.000863
Toluene	50	40	100	4/44	0.00022	0.00094	0.000500	0.00100	0.000738	0.000880
Trichloroethene	0.005	5	50	1/44	0.0011	0.0011	0.000500	0.00101	0.000761	0.000873
Xylenes (total)	3	5	100	1/44	0.0021	0.0021	0.00150	0.00197	0.00138	0.00173
Total VOCs	5	--	--	14/44	0.00014	0.096	0.0500	0.0543	0.0276	0.0397
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	1/43	0.001	0.001	0.00270	0.00285	0.00271	0.000900
Diethylphthalate	50	9	100	2/43	0.004	0.0047	0.00270	0.00348	0.00331	0.00117
Total PAHs	--	--	--	2/3	0.005	0.0051	0.00500	0.00423	0.00405	0.00142
Organochlorine Pesticides										
None Detected	--	--	--	0/1	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/1	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/1	--	--	--	--	--	--

Table D-11
Summary of Groundwater Sample Analytical Results - OPCA-MW-7
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans										
2,3,7,8-TCDF	--	--	--	3/37	2.5E-09	0.00000029	8.00E-10	2.04E-09	8.06E-10	4.72E-09
TCDFs (total)	--	--	--	7/37	1.9E-12	0.00000028	9.50E-10	1.36E-08	1.38E-09	4.93E-08
1,2,3,7,8-PeCDF	--	--	--	5/37	0.000000001	0.000000014	1.20E-09	3.15E-09	1.07E-09	5.48E-09
2,3,4,7,8-PeCDF	--	--	--	5/37	7.1E-10	0.000000031	1.30E-09	4.18E-09	1.20E-09	7.90E-09
PeCDFs (total)	--	--	--	14/37	4.3E-12	0.00000036	2.30E-09	2.14E-08	2.49E-09	6.51E-08
1,2,3,4,7,8-HxCDF	--	--	--	12/37	5.4E-10	0.00000013	1.90E-09	9.12E-09	1.85E-09	2.35E-08
1,2,3,6,7,8-HxCDF	--	--	--	11/37	8.6E-10	0.000000052	2.10E-09	5.82E-09	1.51E-09	1.09E-08
1,2,3,7,8,9-HxCDF	--	--	--	2/37	1.8E-09	0.000000023	1.70E-09	3.62E-09	1.20E-09	6.10E-09
2,3,4,6,7,8-HxCDF	--	--	--	7/37	8.2E-10	0.000000027	1.70E-09	4.25E-09	1.29E-09	7.45E-09
HxCDFs (total)	--	--	--	17/37	1.3E-12	0.00000042	2.60E-09	3.12E-08	3.55E-09	8.56E-08
1,2,3,4,6,7,8-HpCDF	--	--	--	16/37	8E-10	0.000000091	2.60E-09	9.81E-09	2.36E-09	2.05E-08
1,2,3,4,7,8,9-HpCDF	--	--	--	5/37	1.66E-09	0.000000058	2.00E-09	5.02E-09	1.44E-09	1.07E-08
HpCDFs (total)	--	--	--	17/37	8E-10	0.00000036	2.70E-09	2.74E-08	3.21E-09	7.59E-08
OCDF	--	--	--	11/37	0.000000002	0.00000014	5.00E-09	1.41E-08	3.99E-09	2.71E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	2/36	7.4E-10	7.9E-09	8.50E-10	1.39E-09	7.48E-10	1.57E-09
TCDDs (total)	--	--	--	8/37	5.5E-10	0.000000014	1.10E-09	2.31E-09	1.02E-09	3.37E-09
1,2,3,7,8-PeCDD	--	--	--	1/37	3.4E-10	3.4E-10	1.20E-09	2.96E-09	1.20E-09	5.08E-09
PeCDDs (total)	--	--	--	5/37	3.6E-09	0.000000052	2.20E-09	5.00E-09	1.69E-09	9.63E-09
1,2,3,4,7,8-HxCDD	--	--	--	2/37	3.6E-10	3.5E-09	2.00E-09	3.09E-09	1.30E-09	5.05E-09
1,2,3,6,7,8-HxCDD	--	--	--	5/37	2.4E-10	0.000000014	1.60E-09	3.59E-09	1.37E-09	5.48E-09
1,2,3,7,8,9-HxCDD	--	--	--	7/37	0.000000001	0.000000013	2.00E-09	3.35E-09	1.44E-09	5.19E-09
HxCDDs (total)	--	--	--	13/37	6.1E-12	0.000000093	2.60E-09	9.67E-09	2.38E-09	2.08E-08
1,2,3,4,6,7,8-HpCDD	--	--	--	13/37	6.2E-12	0.00000019	2.80E-09	1.25E-08	3.17E-09	3.21E-08
HpCDDs (total)	--	--	--	16/37	6.2E-12	0.000000095	3.00E-09	1.36E-08	3.96E-09	2.44E-08
OCDD	--	--	--	20/37	2E-11	0.00000012	9.00E-09	8.30E-08	1.25E-08	2.16E-07
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	37/37	2E-12	0.000000068	5.00E-09	1.17E-08	4.62E-09	1.76E-08

Table D-11
Summary of Groundwater Sample Analytical Results - OPCA-MW-7
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics										
Barium	--	50	100	4/5	0.012	0.06	0.0270	0.0430	0.0315	0.0370
Chromium	--	0.3	3	1/5	0.0029	0.0029	0.00500	0.00488	0.00473	0.00128
Copper	--	0.23	--	2/5	0.0035	0.0079	0.0125	0.0106	0.00935	0.00499
Selenium	--	0.1	1	1/5	0.0054	0.0054	0.00250	0.00318	0.00302	0.00126
Sulfide	--	--	--	4/38	1	6.4	1.00	1.47	1.11	1.33
Zinc	--	0.9	50	3/5	0.02	0.027	0.0200	0.0186	0.0174	0.00702
Inorganics-filtered										
Antimony	--	8	80	6/41	0.0011	0.0096	0.0200	0.0158	0.00988	0.0107
Arsenic	--	0.9	9	1/40	0.0016	0.0016	0.00500	0.00647	0.00524	0.00778
Barium	--	50	100	30/41	0.00848	0.341	0.0282	0.0672	0.0366	0.0848
Beryllium	--	0.2	2	3/41	0.00043	0.00872	0.00200	0.00276	0.00196	0.00203
Cadmium	--	0.004	0.05	20/41	0.00015	0.008	0.00164	0.00190	0.00137	0.00152
Calcium	--	--	--	1/1	167	167	167	167	167	NA
Chromium	--	0.3	3	20/41	0.00072	0.0076	0.00500	0.00384	0.00313	0.00230
Cobalt	--	0.075	--	8/41	0.0002	0.00463	0.00500	0.0127	0.00650	0.0107
Copper	--	0.23	--	8/41	0.0012	0.0073	0.0100	0.0198	0.00850	0.0313
Cyanide	--	0.03	2	1/6	0.0014	0.0014	0.00500	0.00440	0.00404	0.00147
Cyanide-MADEP (PAC)	--	0.03	2	1/29	0.005	0.005	0.00500	0.00420	2040	0.00130
Lead	--	0.01	0.15	9/41	0.00008	0.00827	0.00250	0.00312	0.00238	0.00189
Magnesium	--	--	--	1/1	77.8	77.8	77.8	77.8	77.8	NA
Manganese	--	--	--	1/1	0.0154	0.0154	0.0154	0.0154	0.0154	NA
Mercury	--	0.02	0.2	2/41	0.0000227	0.00005	0.000100	0.000149	0.000128	0.0000783
Nickel	--	0.2	2	17/41	0.0004	0.0676	0.0167	0.0142	0.00870	0.0129
Potassium	--	--	--	1/1	1.25	1.25	1.25	1.25	1.25	NA
Selenium	--	0.1	1	6/41	0.00072	0.00889	0.00500	0.00672	0.00555	0.00427
Silver	--	0.007	1	4/41	0.00054	0.00177	0.00250	0.00269	0.00204	0.00162
Sodium	--	--	--	1/1	73.9	73.9	73.9	73.9	73.9	NA
Thallium	--	3	30	3/41	0.0022	0.0148	0.00500	0.00484	0.00435	0.00218
Tin	--	--	--	1/40	0.00611	0.00611	0.0250	0.0310	0.0255	0.0167

Table D-11
Summary of Groundwater Sample Analytical Results - OPCA-MW-7
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Vanadium	- -	4	40	3/41	0.0026	0.00657	0.0250	0.0225	0.0200	0.00683
Zinc	- -	0.9	50	17/41	0.0067	0.279	0.0100	0.0215	0.0142	0.0422

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

Table D-12
Summary of Groundwater Sample Analytical Results - OPCA-MW-8&OPCA-MW-8R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
PCBs										
Aroclor-1254	--	--	--	4/7	0.000095	0.00068	0.0000950	0.000176	0.0000998	0.000231
Aroclor-1260	--	--	--	2/7	0.00011	0.00024	0.0000330	0.0000760	0.0000552	0.0000776
Total PCBs	0.005	0.01	0.1	4/7	0.000095	0.00092	0.0000950	0.000226	0.000111	0.000321
PCBs-Filtered										
Aroclor-1254	--	--	--	7/42	0.000016	0.00033	0.0000500	0.0000930	0.0000670	0.0000777
Aroclor-1260	--	--	--	2/42	0.000025	0.000029	0.0000350	0.0000786	0.0000573	0.0000682
Total PCBs	0.005	0.01	0.1	7/42	0.000016	0.00036	0.0000500	0.0000943	0.0000679	0.0000798
Volatile Organics										
1,2-Dichloroethane	0.005	20	100	1/44	0.0018	0.0018	0.000500	0.00106	0.000791	0.000897
2-Butanone	50	50	100	1/44	0.0025	0.0025	0.00250	0.00635	0.00446	0.00787
Acetone	50	50	100	6/44	0.0023	0.09	0.00995	0.0131	0.00821	0.0168
Chloroform	0.05	20	100	2/44	0.00016	0.00027	0.000500	0.00103	0.000745	0.000911
Chloromethane	--	--	--	3/44	0.00058	0.00067	0.00100	0.00122	0.000952	0.000976
Toluene	50	40	100	5/44	0.00012	0.011	0.000500	0.00127	0.000800	0.00175
Trichloroethene	0.005	5	50	1/44	0.0011	0.0011	0.000500	0.00106	0.000790	0.000897
Total VOCs	5	--	--	15/44	0.00027	0.09	0.0500	0.0525	0.0233	0.0406
Semivolatile Organics										
bis(2-Ethylhexyl)phthalate	--	50	100	3/44	0.00087	0.0017	0.00265	0.00283	0.00261	0.00133
Total PAHs	--	--	--	3/3	0.0051	0.0054	0.00530	0.00527	0.00527	0.000153
Organochlorine Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Organophosphate Pesticides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Herbicides										
None Detected	--	--	--	0/2	--	--	--	--	--	--
Furans										
2,3,7,8-TCDF	--	--	--	3/39	8.1E-10	5.5E-09	8.1E-10	1.39E-09	7.53E-10	1.57E-09
TCDFs (total)	--	--	--	8/39	1.1E-09	0.00000061	1.1E-09	2.06E-08	1.31E-09	9.80E-08
1,2,3,7,8-PeCDF	--	--	--	2/39	5.3E-10	0.000000027	1.3E-09	3.75E-09	1.15E-09	6.69E-09

Table D-12
Summary of Groundwater Sample Analytical Results - OPCA-MW-8&OPCA-MW-8R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Furans (cont.)										
2,3,4,7,8-PeCDF	--	--	--	4/39	5.2E-10	0.00000027	1.3E-09	3.69E-09	1.15E-09	6.69E-09
PeCDFs (total)	--	--	--	7/39	3.7E-10	0.0000014	1.5E-09	4.54E-08	2.01E-09	2.24E-07
1,2,3,4,7,8-HxCDF	--	--	--	4/39	5.4E-10	0.00000012	1.3E-09	7.24E-09	1.4E-09	1.99E-08
1,2,3,6,7,8-HxCDF	--	--	--	2/39	5.4E-10	0.00000027	1.1E-09	3.6E-09	0.000000001	6.72E-09
1,2,3,7,8,9-HxCDF	--	--	--	3/39	5E-10	0.00000027	1.3E-09	3.72E-09	1.11E-09	6.69E-09
2,3,4,6,7,8-HxCDF	--	--	--	2/39	5.1E-10	0.00000027	1.2E-09	3.64E-09	1.03E-09	6.71E-09
HxCDFs (total)	--	--	--	7/39	5.6E-10	0.00000062	1.4E-09	2.24E-08	1.86E-09	9.94E-08
1,2,3,4,6,7,8-HpCDF	--	--	--	5/39	5.2E-12	1.4E-09	1.1E-09	2.81E-09	9.52E-10	5.37E-09
1,2,3,4,7,8,9-HpCDF	--	--	--	3/39	4.7E-10	0.00000027	1.3E-09	3.89E-09	1.16E-09	6.77E-09
HpCDFs (total)	--	--	--	6/39	2.4E-10	0.00000012	1.3E-09	3.5E-09	1.24E-09	5.76E-09
OCDF	--	--	--	5/39	1.00E-09	0.00000018	3.2E-09	6.81E-09	2.48E-09	1.09E-08
Dioxins										
2,3,7,8-TCDD	--	--	--	2/39	1.1E-09	5.5E-09	7.5E-10	1.31E-09	7.75E-10	1.29E-09
TCDDs (total)	--	--	--	5/39	8.1E-10	5.5E-09	9.5E-10	1.49E-09	9E-10	1.49E-09
1,2,3,7,8-PeCDD	--	--	--	2/39	1.1E-09	0.00000027	1.9E-09	4.02E-09	1.54E-09	6.59E-09
PeCDDs (total)	--	--	--	5/39	5.2E-10	0.00000027	2.2E-09	3.86E-09	1.63E-09	6.43E-09
1,2,3,4,7,8-HxCDD	--	--	--	3/39	1.9E-10	0.00000027	1.3E-09	3.82E-09	1.3E-09	6.66E-09
1,2,3,6,7,8-HxCDD	--	--	--	3/39	2.2E-10	0.00000027	1.3E-09	3.8E-09	1.26E-09	6.69E-09
1,2,3,7,8,9-HxCDD	--	--	--	4/39	7E-10	0.00000027	1.3E-09	3.88E-09	1.37E-09	6.64E-09
HxCDDs (total)	--	--	--	7/39	4.1E-10	0.00000027	1.8E-09	4.06E-09	1.49E-09	6.64E-09
1,2,3,4,6,7,8-HpCDD	--	--	--	6/39	5.6E-10	0.00000015	2.1E-09	4.07E-09	1.59E-09	6.00E-09
HpCDDs (total)	--	--	--	9/39	1E-10	0.00000012	2.2E-09	4.1E-09	1.52E-09	6.06E-09
OCDD	--	--	--	11/39	3.2E-09	0.00000086	6.5E-09	1.26E-08	5.98E-09	1.65E-08
Total TEQs (1998 WHO TEFs)	--	4.00E-05	4.00E-04	38/38	1E-11	0.00000007	5.7E-09	1.08E-08	4.43E-09	1.76E-08
Inorganics										
Antimony	--	8	80	2/7	0.0042	0.011	0.0300	0.0236	0.0196	0.0111
Barium	--	50	100	5/7	0.029	0.086	0.0410	0.0608	0.0534	0.0328
Chromium	--	0.3	3	4/7	0.0027	0.007	0.00500	0.00507	0.00486	0.00150
Cobalt	--	0.075	--	1/7	0.0012	0.0012	0.0250	0.0223	0.0166	0.00950

Table D-12
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General Electric Company - Pittsfield, Massachusetts



(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics (cont.)										
Copper	--	0.23	--	1/7	0.0035	0.0035	0.0125	0.0118	0.0108	0.00395
Cyanide	--	0.03	2	3/7	0.0024	0.026	0.00500	0.00886	0.00680	0.00797
Lead	--	0.01	0.15	2/7	0.003	0.0049	0.00250	0.0114	0.00361	0.0237
Mercury	--	0.02	0.2	1/7	0.00022	0.00022	0.000100	0.000139	0.000128	0.0000664
Nickel	--	0.2	2	1/7	0.0024	0.0024	0.0200	0.0189	0.0157	0.00818
Sulfide	--	--	--	2/39	6.4	8	1.00	1.55	1.12	1.56
Vanadium	--	4	40	4/7	0.0019	0.0044	0.00440	0.0130	0.00705	0.0129
Zinc	--	0.9	50	6/7	0.011	0.18	0.0420	0.0691	0.0450	0.0621
Inorganics-filtered										
Antimony	--	8	80	2/43	0.0065	0.012	0.0200	0.0157	0.0104	0.0107
Barium	--	50	100	32/43	0.00521	0.124	0.0500	0.0546	0.0382	0.0523
Beryllium	--	0.2	2	4/43	0.00038	0.0124	0.00200	0.00266	0.00182	0.00232
Cadmium	--	0.004	0.05	4/43	0.0001	0.00287	0.00250	0.00193	0.00139	0.00116
Calcium	--	--	--	1/1	78.8	78.8	78.8	78.8	78.8	NA
Chromium	--	0.3	3	23/43	0.00076	0.0068	0.00500	0.00386	0.00331	0.00210
Cobalt	--	0.075	--	3/43	0.00015	0.0023	0.0250	0.0155	0.0102	0.0104
Copper	--	0.23	--	8/43	0.0011	0.0053	0.0125	0.0178	0.00921	0.0277
Cyanide	--	0.03	2	3/8	0.0014	0.0058	0.00500	0.00438	0.00404	0.00148
Cyanide-MADEP (PAC)	--	0.03	2	1/30	0.004	0.004	0.00500	0.00441	0.00428	0.00100
Lead	--	0.01	0.15	7/43	0.00007	0.00848	0.00250	0.00302	0.00242	0.00176
Magnesium	--	--	--	1/1	43.3	43.3	43.3	43.3	43.3	NA
Manganese	--	--	--	1/1	0.0029	0.0029	0.00290	0.00290	0.00290	NA
Mercury	--	0.02	0.2	2/43	0.000035	0.00024	0.000100	0.000153	0.000134	0.0000784
Nickel	--	0.2	2	15/43	0.0005	0.0403	0.00780	0.0121	0.00784	0.00956
Potassium	--	--	--	1/1	1.07	1.07	1.07	1.07	1.07	NA
Selenium	--	0.1	1	2/43	0.0021	0.0043	0.00500	0.00666	0.00558	0.00423
Silver	--	0.007	1	2/43	0.00013	0.0007	0.00250	0.00271	0.00197	0.00166
Sodium	--	--	--	1/1	159	159	159	159	159	NA
Thallium	--	3	30	9/43	0.00003	0.00992	0.00500	0.00479	0.00392	0.00197

Table D-12
Summary of Groundwater Sample Analytical Results - OPCA-MW-8&OPCA-MW-8R
OPCA Post-Closure Groundwater Monitoring Event Evaluation Report - Fall 2022
On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Location ID: Date Collected: Sample Name:	Method 1 GW-2 Standards	Method 1 / Method 2 GW-3 Standards	MCP UCL for Groundwater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Inorganics-filtered (cont.)										
Tin	--	--	--	1/42	0.00412	0.00412	0.0250	0.0307	0.0256	0.0163
Vanadium	--	4	40	2/43	0.002	0.0047	0.0250	0.0230	0.0206	0.00636
Zinc	--	0.9	50	19/43	0.00292	0.298	0.0100	0.0245	0.0132	0.0473

Notes:

1. Samples were collected between 1999 and 2021.
2. Samples have been validated in accordance with the applicable EPA-approved Field Sampling/Quality Assurance Project Plan (FSP/QAPP).
3. With the exception of Herbicides and Pesticides, only constituents which were detected during at least one prior sampling event are summarized.
4. Statistical calculations for events where multiple samples were collected from one location (e.g., low-flow and passive diffusion bag samples) were conducted treating the initial sample for that event as a parent and the other sample type (e.g., passive diffusion bag sample) as a split. For locations with duplicate and/or split analytical results, if there is a detection in any of the samples for a location during a single monitoring event, a single detection is reported when calculating the detection frequency. Minimum and maximum detects are the minimum and maximum from all analytical results, treating duplicate and split samples separately. Medians, arithmetic averages, and geometric means are calculated by treating the arithmetic average of paired duplicate results, split samples and primary samples each as a single result. One half of the associated reporting limit is used for any non-detected results in the summary statistics presented. The use of this convention can result in a calculated average greater than the maximum detected concentration.
5. For PCDD/PCDF compounds, total Toxicity Equivalency Quotient (TEQ) concentrations were calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization in 1998 (van den Berg et al., Environ. Health Perspectives, vol. 106, no. 12), as required by the Statement of Work for Removal Actions Outside the River, and representing non-detected compounds as one-half the detection limit.
6. NA - Not Applicable
7. Shaded values are analyses not conducted in Fall 2021 for which the summary statistics were updated in Fall 2021 to correct errors in the Spring 2021 report.

OPCA Graphs

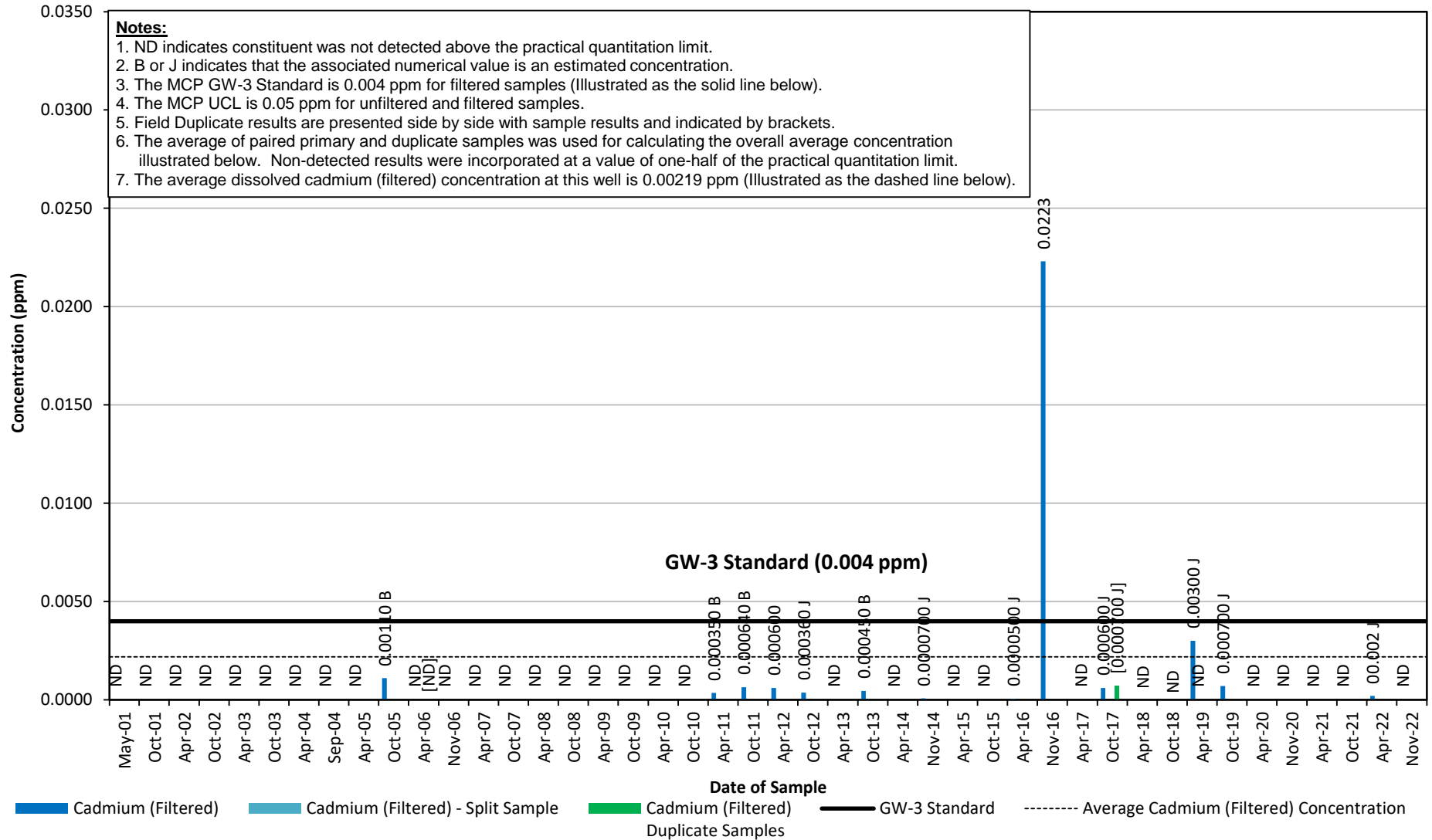
Appendix D

Well 78-1 Historical Dissolved Cadmium (Filtered) Concentrations

GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022

Groundwater Management Area 4 and On-Plant Consolidation Area

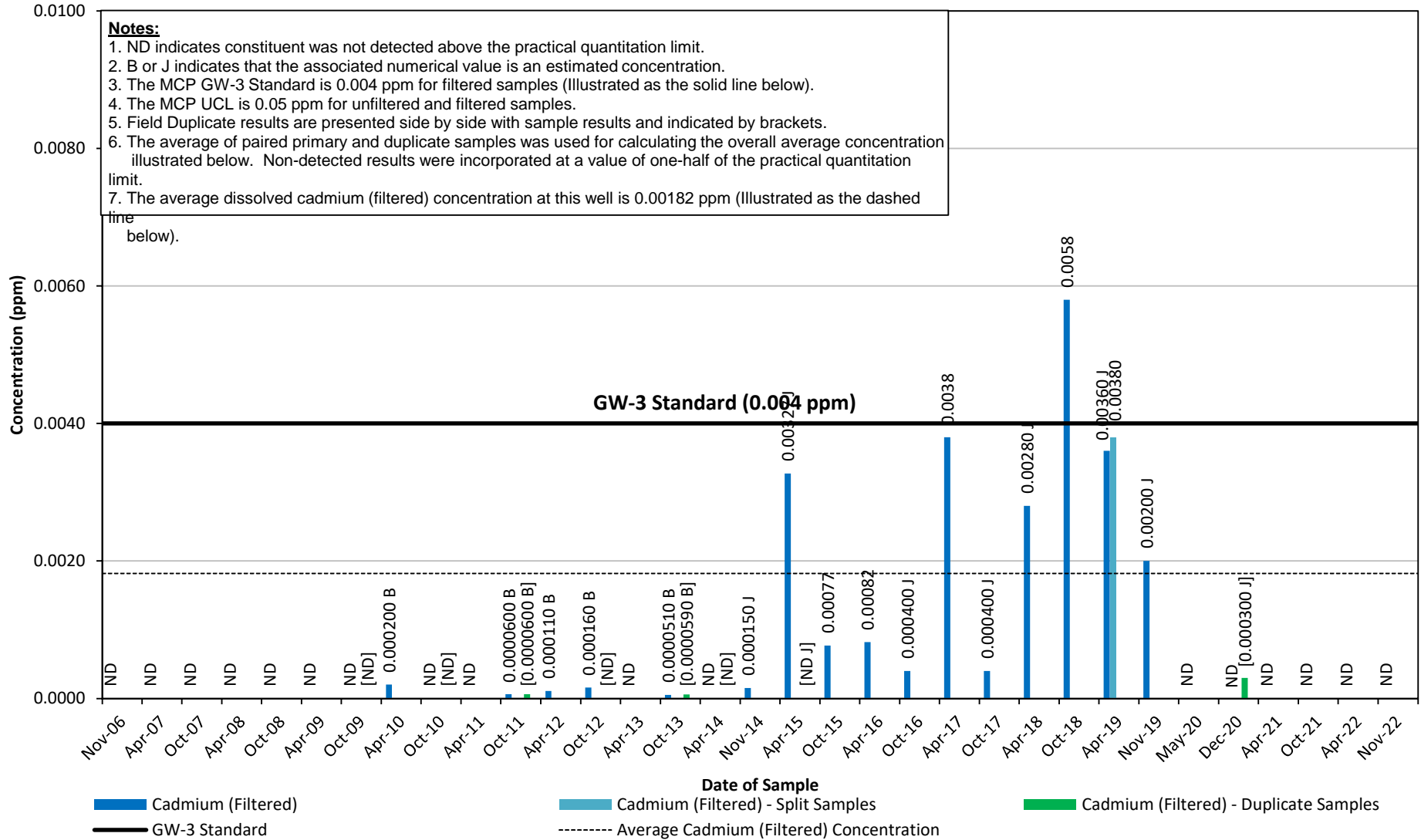
General Electric Company - Pittsfield, Massachusetts



Appendix D
Well GMA4-6 Historical Dissolved Cadmium (Filtered) Concentrations



GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022
Groundwater Management Area 4 and On-Plant Consolidation Area
General Electric Company - Pittsfield, Massachusetts



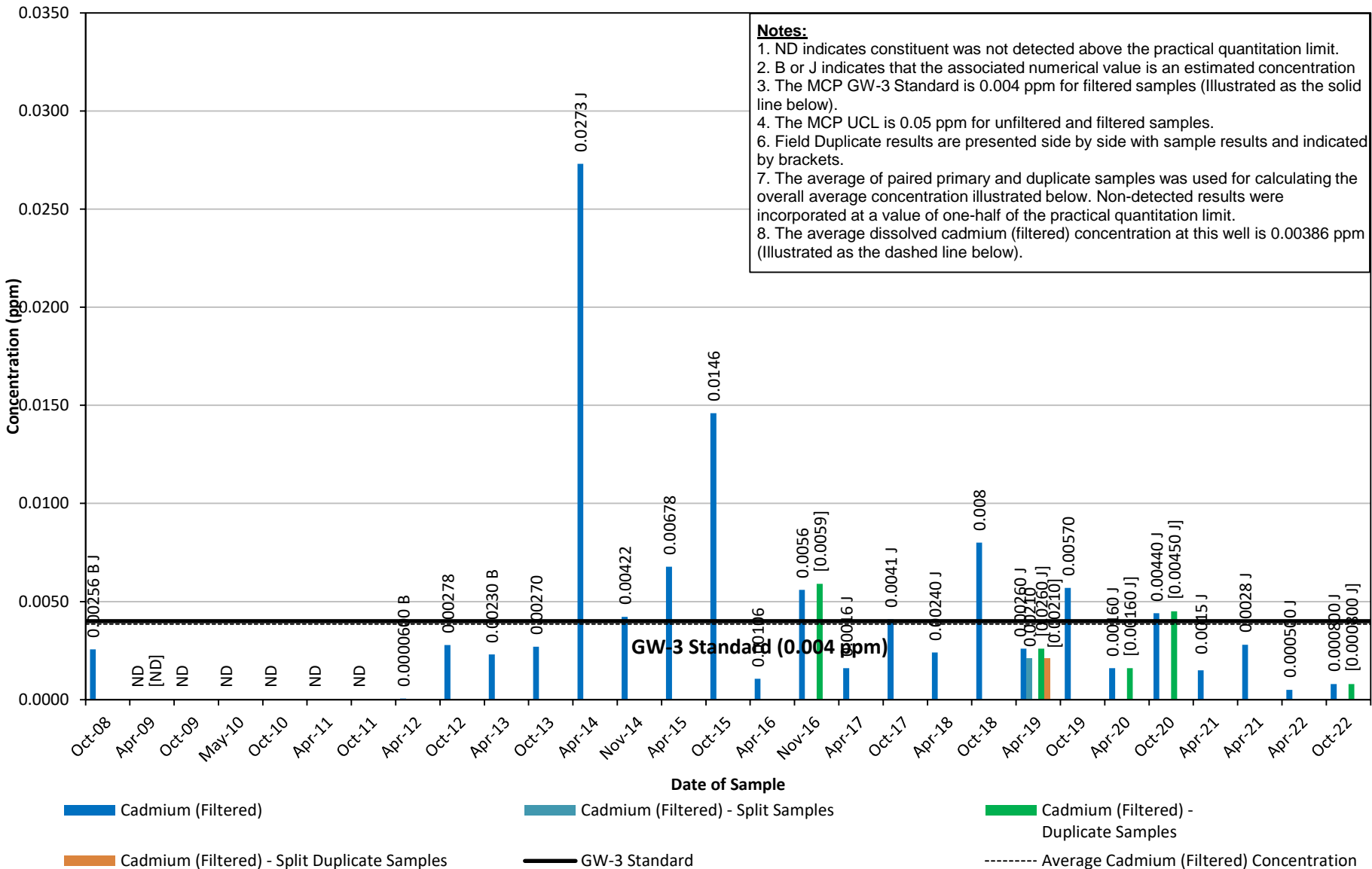
Appendix D

Well OPCA-MW-1RR Historical Dissolved Cadmium (Filtered) Concentrations

GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs- Fall 2022

Groundwater Management Area 4 and On-Plant Consolidation Area

General Electric Company - Pittsfield, Massachusetts



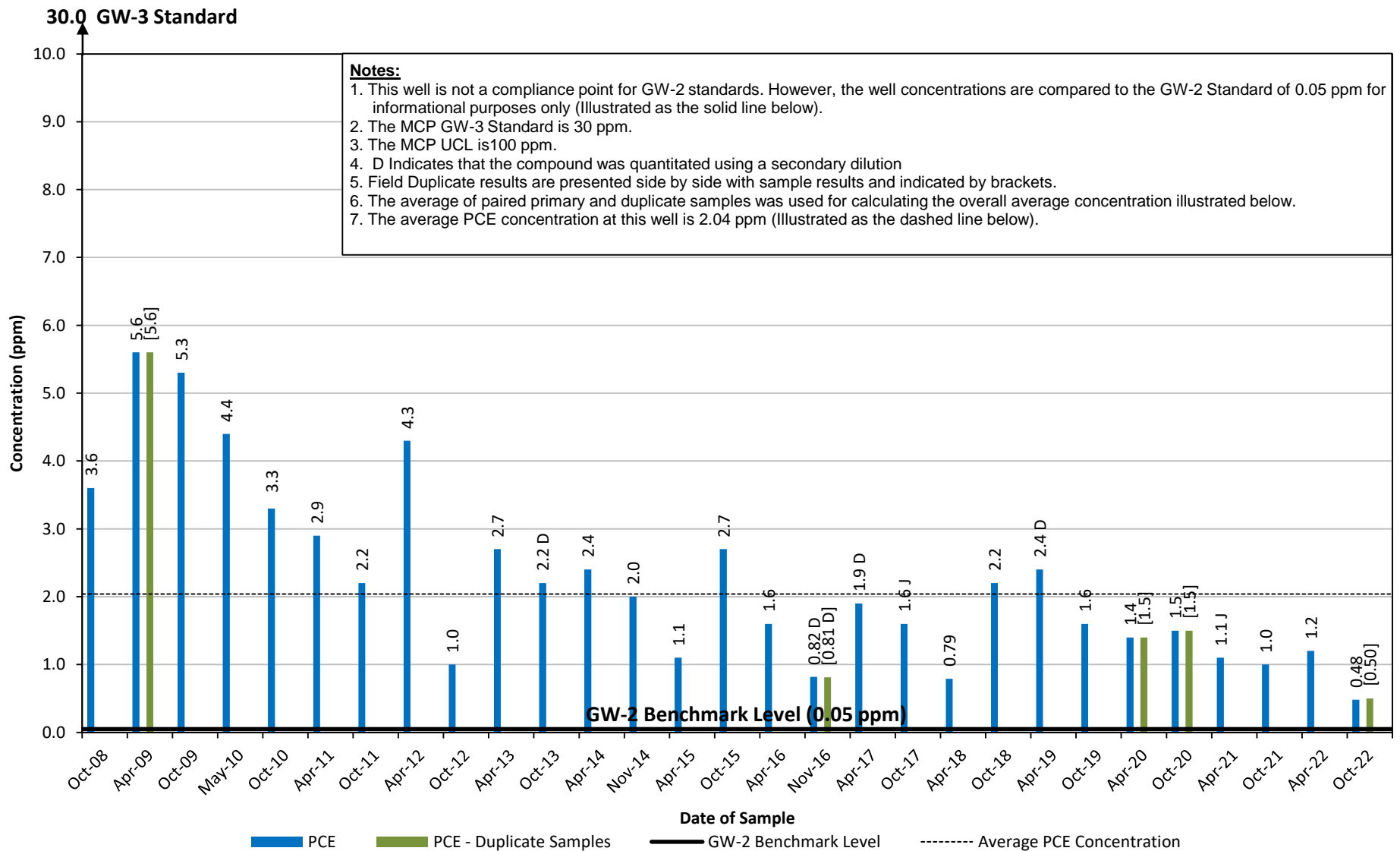
Appendix D

Well OPCA-MW-1RR Historical PCE Concentrations

GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022

Groundwater Management Area 4 and On-Plant Consolidation Area

General Electric Company - Pittsfield, Massachusetts



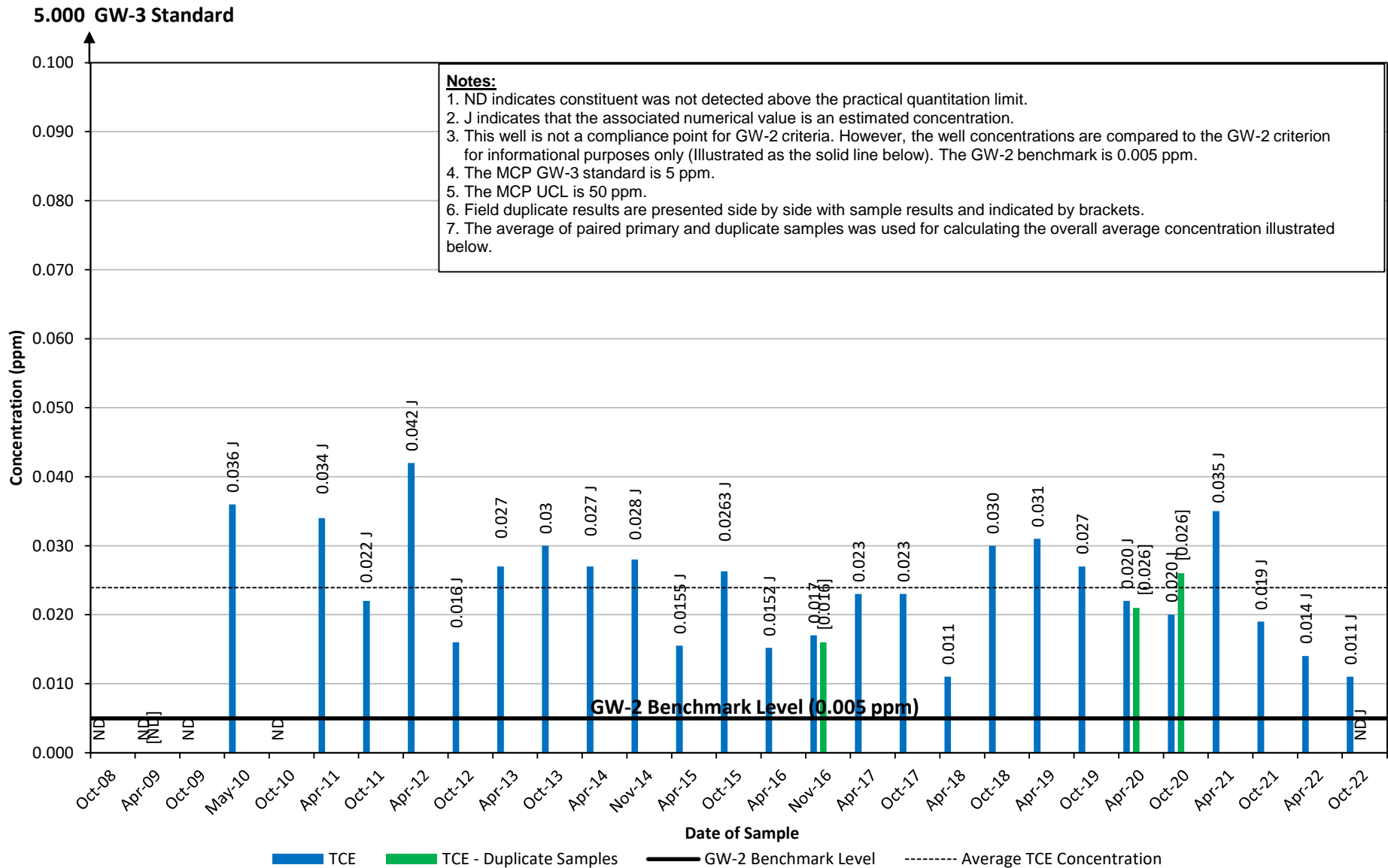
Appendix D

Well OPCA-MW-1RR TCE Concentrations

GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022

Groundwater Management Area 4 and On-Plant Consolidation Area

General Electric Company - Pittsfield, Massachusetts



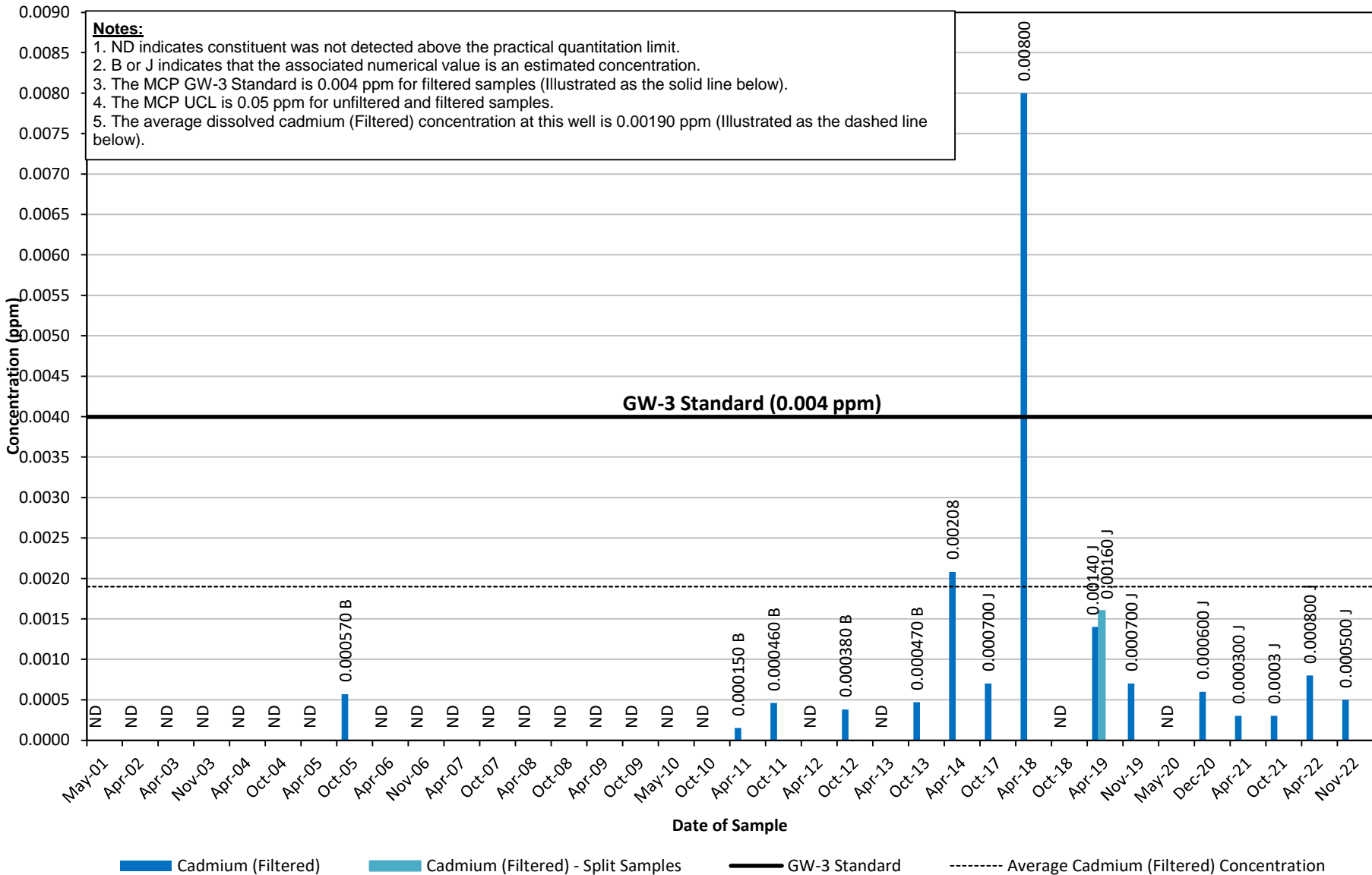
Appendix D

Well OPCA-MW-7 Cadmium Concentrations

GMA 4 Long-Term and OPCA Post-Closure Groundwater Quality Monitoring Programs - Fall 2022

Groundwater Management Area 4 and On-Plant Consolidation Area

General Electric Company - Pittsfield, Massachusetts



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