



2020 Site Management Periodic Review Report – Love Canal Site NYSDEC Site No. 932020 Niagara Falls, New York

Glenn Springs Holdings, Inc.





Table of Contents

1.	Introduction.....	1
2.	Remedial Systems	1
2.1	Operations of the Barrier Drain and Collection System.....	2
2.1.1	Barrier Drain System	2
2.1.2	Pumping System.....	2
2.1.3	102nd Street Landfill Forcemain.....	2
3.	Groundwater Treatment and Monitoring	3
3.1	Groundwater Treatment.....	3
3.1.1	Treatment System	3
3.1.2	Effluent Discharge	3
3.1.3	Effluent Sampling.....	3
3.1.4	Precipitation	4
3.2	Groundwater Monitoring	4
3.2.1	Groundwater Quality.....	4
3.2.1.1	Overburden Monitoring Wells	5
3.2.1.2	Bedrock Monitoring Wells.....	6
3.2.1.3	Historical Compound Detections	6
3.2.2	Hydraulic Containment	6
3.2.3	Colvin Boulevard Sewer System NAPL Presence	8
3.2.4	Well Maintenance	8
3.2.5	Summary of Treatment and Monitoring Results	8
4.	Activities	9
4.1	Process Activities.....	9
4.2	Non-Process Activities	9
4.3	Community Outreach.....	9
4.3.1	Beautification	9
4.3.2	Tours.....	10
4.3.3	Communications.....	10
4.4	Waste Generation	10
4.5	Routine Operations, Inspections, and Monitoring.....	10
5.	Conclusion.....	12



Figure Index

Figure 2.1	Site Plan
Figure 2.2	Manhole Locations
Figure 3.1	Process Schematic
Figure 3.2	2020 Groundwater Monitoring Locations
Figure 3.3	June 2020 Flow Diagram – 1140 Series Piezometers
Figure 3.4	June 2020 Flow Diagram – 1150 Series Piezometers
Figure 3.5	June 2020 Flow Diagram – 1160 Series Piezometers
Figure 3.6	June 2020 Flow Diagram – 1170 Series Piezometers
Figure 3.7	June 2020 Flow Diagram – 1180 Series Piezometers
Figure 3.8	June 2020 Flow Diagram – 1190 Series Piezometers
Figure 3.9	June 2, 2020 Groundwater Contours – Overburden
Figure 3.10	June 2, 2020 Groundwater Contours – Bedrock

Table Index

Table 3.1	Monthly Volumes of Groundwater Treated
Table 3.2	2020 Analytical Results Summary – Overburden
Table 3.3	2020 Analytical Results Summary – Bedrock
Table 3.4	2020 Detection Summary
Table 3.5	Summary of Detected Compounds in Select Wells
Table 3.6A	1140 Series Piezometers Water Levels – 2020
Table 3.6B	1150 Series Piezometers Water Levels - 2020
Table 3.6C	1160 Series Piezometers Water Levels - 2020
Table 3.6D	1170 Series Piezometers Water Levels - 2020
Table 3.6E	1180 Series Piezometers Water Levels - 2020
Table 3.6F	1190 Series Piezometers Water Levels – 2020
Table 3.7	Groundwater Elevations in the Vicinity of Well 10135



Appendix Index

Appendix A	Institutional and Engineering Controls Certification Form
Appendix B	Semiannual Inspection Forms
Appendix C	Niagara Falls Water Board Wastewater Discharge Permit #44
Appendix D	Annual Groundwater Sampling Schedule
Appendix E	Laboratory Reports
Appendix F	Data Validation Memorandum
Appendix G	Niagara Falls Water Board Inspection Letter
Appendix H	Test and Maintenance of Backflow Prevention Device Reports
Appendix I	2020 Cap Regrading Photographic Log



1. Introduction

Operation of the Love Canal Site (Site) was transferred from the New York State Department of Environmental Conservation (NYSDEC) to Occidental Chemical Corporation (OCC) in April 1995. Effective July 1, 1998, Site responsibility was assigned by OCC to Glenn Springs Holdings, Inc. (GSH), an affiliate of OCC. Since October 1, 2008, GHD Services, Inc. (GHD), formerly Conestoga-Rovers & Associates (CRA), has performed operation, maintenance, monitoring, and reporting activities for the Site under contract to and direct management of GSH.

This report is the twenty-sixth annual report prepared by or on behalf of OCC and covers operation, maintenance, and monitoring activities for 2020. The completed 2020 NYSDEC Institutional and Engineering Controls Certification Form is included as Appendix A.

2. Remedial Systems

Operation of remedial systems to prevent the off-Site migration of chemical contaminants from the Site began in October 1978 with the installation of a barrier drain along the east and west sides of the South Sector of the Canal. The barrier drain was later extended to completely encompass the entire area of disposed waste within the Central and North Sectors of the Canal. The barrier drain, designed to intercept the shallow overburden lateral groundwater flow, consists of a trench approximately 4 feet wide that varies in depth from approximately 12 to 25 feet deep depending on location at the Site. Installed within the trench is a perforated vitrified clay tile pipe. The pipe is 6-inch diameter in the Central and North Sectors and both 6-inch and 8-inch diameter in the South Sector. The pipe is centered in a minimum of 2 feet of uniformly sized gravel, which is overlain with coarse sand extending to the existing ground surface present at the time of construction. Thirty-two lateral trenches, approximately 12 to 19 feet deep, filled with a minimum of 2 feet of gravel and overlain with sand similar to the barrier drain, were dug perpendicular to the barrier drain in the direction of the Canal. The majority of these laterals extend into the disposed waste. The barrier drain is graded from two highpoints, one in the southeast corner and the other in the northeast corner, toward a series of manholes which drain to four pump chambers (PC-1A/PC-2A in the North/Central Sector and PC-1/PC-2 in the South Sector) where the leachate is collected. The collected leachate is pumped from the four pump chambers to two other pump chambers connected to underground holding tanks (PC-3A in the North/Central Sector and PC-3 in the South Sector) where it is temporarily stored. From that point, the leachate is pumped to the on-Site Love Canal Treatment Facility (LCTF) where it is treated and discharged to the Niagara Falls Water Board (NFWB) sanitary sewer system under the Site's Significant Industrial User (SIU) Permit #44. The locations of the remedial system components are illustrated on the Site Plan presented as Figure 2.1.

The installation of a 22-acre clay cap over the entire former Canal area was completed in October 1980 following completion of the barrier drain collection system. The purpose of the cap is to reduce infiltration of precipitation. The thickness of the clay cap is a minimum of 3 feet. In 1985, a second (40-acre) cap was installed over the initial clay cap area. The newer cap consists of a 40-mil high density polyethylene (HDPE) liner covered by 18 inches of clean soil and vegetation.



In March 1999, the adjacent 102nd Street Landfill Site leachate collection system was connected to the Love Canal Site to facilitate the transfer of leachate from the 102nd Street landfill into Love Canal's pump chamber PC-3 for treatment at the LCTF.

2.1 Operations of the Barrier Drain and Collection System

2.1.1 Barrier Drain System

The barrier drain system continues to function as designed, with no major maintenance required during 2020. Semiannual inspections of the barrier drain components, including manholes and pump chambers, are required by the Site's NYSDEC-approved Operation and Maintenance (O&M) Manual (CRA, revised March 2015). Inspections of the barrier drain manholes were conducted on May 20 and October 19, 2020, and inspections of the barrier drain pump chambers were carried out on May 20 and November 10, 2020. The visual inspections showed that the manhole flumes were flowing freely and required no further maintenance. During both inspection events, limited buildup of sludge was noted at MH-6A, MH-6B, and MH-6C. However, the buildup was insufficient to warrant cleaning, as it did not impede flow through the manholes. The visual inspections were documented on the 2020 Semiannual Inspection Forms, which are presented in Appendix B. The manhole locations are presented on Figure 2.2.

2.1.2 Pumping System

The barrier drain system consists of two sectors, the Northern/Central and the Southern. Leachate from the Northern/Central Sector drains to pump chambers PC-1A and PC-2A where it is pumped to pump chamber PC-3A, while leachate from the Southern Sector is pumped from pump chambers PC-1 and PC-2 to the underground storage tank connected to pump chamber PC-3. From pump chambers PC-3 and PC-3A, the leachate is then transferred through a below ground metering chamber outside the LCTF on the southeast corner of the building and then into the LCTF for treatment. The pumping system is designed to operate continuously and was operational and functioned as designed throughout 2020.

2.1.3 102nd Street Landfill Forcemain

The leachate forcemain construction was completed in March 1999 and is used for the transfer of leachate from the 102nd Street Landfill to the LCTF. The forcemain begins at the northwest corner of the 102nd Street Landfill and extends northward beneath River Road, LaSalle Expressway, and Frontier Avenue to pump chamber PC-3 at the Site. During 2020, the leachate collection system at 102nd Street pumped 120,131 gallons of leachate to the LCTF.



3. Groundwater Treatment and Monitoring

3.1 Groundwater Treatment

3.1.1 Treatment System

The LCTF consists of clarification, bag filtration, and carbon treatment prior to discharge to the NFWB sanitary sewer system. A process schematic depicting the layout of the treatment system is presented as Figure 3.1.

Treated water from the Site is discharged essentially on a batch basis to the NFWB sanitary sewer system (i.e., when there is sufficient water in storage, the treatment system is operated); however, under seasonal high flow conditions, water is discharged continuously. The discharge is authorized under the Site's SIU Permit #44. The current permit is valid from January 10, 2020 to January 9, 2025. A copy of the NFWB permit is included as Appendix C.

3.1.2 Effluent Discharge

The LCTF discharged to the NFWB sanitary sewer system on 229 days in 2020.

Under high stormwater flow events, the NFWB periodically requires that the LCTF temporarily cease discharging to the sewer system. During an event of this type, the barrier drain pumping system will continue to operate and maintain a protective inward hydraulic gradient to capture leachate. The NFWB did not require the LCTF to temporarily cease discharging to the sewer system during 2020.

In 2020, the LCTF processed a total of 3,356,298 gallons of leachate. This total was comprised of 3,236,167 gallons of leachate from the Site and 120,131 gallons of leachate from the 102nd Street Landfill.

Table 3.1 shows the monthly total and average treated groundwater quantities from 2000 through 2020.

3.1.3 Effluent Sampling

Sampling of the effluent discharged to the NFWB sanitary sewer system occurred quarterly as required under the Site's SIU Discharge Permit #44. In accordance with the SIU permit, the quarterly monitoring periods for 2020 were as follows:

Quarter 1: December 1 – February 29

Quarter 2: March 1 – May 31

Quarter 3: June 1 – August 31

Quarter 4: September 1 – November 30

The quarterly effluent sampling for 2020 was performed on December 9, 2019 and March 16, June 8, and September 1, 2020. The sample results were submitted to the NFWB quarterly as required by the permit and to the NYSDEC. The results for each event were in compliance with the requirements of the Site's SIU permit.



3.1.4 Precipitation

In 2020, precipitation in the Niagara Falls region totaled 24.46 inches (Niagara Falls International Airport, National Climatic Data Center). Table 3.1 provides historical regional precipitation data from 2000 through 2020.

3.2 Groundwater Monitoring

Groundwater monitoring consists of both chemical monitoring to determine groundwater quality and hydraulic monitoring to demonstrate that the barrier drain is creating hydraulic containment. Monitoring and analytical protocols for the Site's groundwater monitoring program have been established and are set forth in the "Sampling Manual, Love Canal Site, Long-Term Groundwater Monitoring Program" (LTGMP), revised June 2013.

The monitoring results for 2020 are presented in the following sections.

3.2.1 Groundwater Quality

Chemical monitoring is performed annually by sampling select overburden and bedrock monitoring wells at the Site. On March 25, 2009, the NYSDEC communicated via email to GSH that the NYSDEC would no longer be providing an annual well sampling list for chemical monitoring and directed GSH to use the wells sampled in 2007 and 2008 for all future sampling events. Subsequent discussions between GSH and the NYSDEC regarding the well sampling list led to this decision being documented in an August 5, 2010 memo titled "Love Canal Annual Groundwater Sampling Schedule", presented in Appendix D.

It should be noted that Overburden Well 3151 is included on the Appendix D list; however, this well was noted in 2007 as "Well no longer available – destroyed" and could not be located. Therefore, this well has not been sampled since 2007. In addition, Overburden Well 10178A and Bedrock Wells MW-01 and MW-02 were added to the annual sampling program in 2011. The sampling frequency for Overburden Well 10178A became annual in 2016.

The 2020 annual groundwater chemical monitoring event was performed between June 24 and July 10, 2020. As part of the annual groundwater chemical monitoring in 2020, 33 monitoring wells were sampled, comprised of 13 overburden and 20 bedrock monitoring wells. In addition to the 12 overburden wells scheduled to be sampled in 2020 per the Appendix D list, the NYSDEC requested (via email on June 30, 2020) that a groundwater sample be collected from Overburden Well 10178B during the 2020 sampling event and analyzed for the same parameters as the other wells sampled. Well 10178B was requested to be sampled to provide additional data on groundwater quality in the overburden west of Well 10135.

As a component of the LTGMP, the NYSDEC has the option of collecting split samples during the annual sampling event and having those samples analyzed independently to verify data. However, based on a review of split sample data from 1995 to 2013, NYSDEC determined that there was no difference between the data sets and, therefore, split sampling was no longer required. No split samples were collected by the NYSDEC during the 2020 annual sampling event. The NYSDEC observed a portion of the groundwater sampling activities conducted on July 7, 2020.



Groundwater samples were submitted to ALS Environmental Group USA, Corp (ALS) located in Rochester, New York. ALS is a New York State Department of Health (NYSDOH) approved laboratory certified under the National Environmental Laboratory Approval Program (NELAP). The samples were analyzed for Site-specific volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs). The raw data laboratory packages are presented in Appendix E. A GHD chemist performed the analytical Quality Assurance/Quality Control (QA/QC) review and data validation. The QA/QC report for this event is presented in Appendix F.

Figure 3.2 identifies the wells sampled and their locations. The Love Canal Annual Groundwater Sampling Schedule is presented in Appendix D. Table 3.2 provides a summary of the overburden wells that were sampled, the analytical data, and a summation of the number of compounds found at or above the detection limits in each well. Table 3.3 provides a summary of the bedrock wells that were sampled, the analytical data, and a summation of the number of compounds found at or above the detection limits in each well. Table 3.4 presents the number of discrete compounds detected in each individual well sampled, arranged by parameter group. This table also presents the total number of detections in the overburden and in the bedrock, as well as the total number of discrete compounds detected in the overburden in its entirety and the total number of discrete compounds detected in the bedrock in its entirety.

3.2.1.1 Overburden Monitoring Wells

The 2020 groundwater analytical results for the overburden monitoring wells (Table 3.2) are consistent with previous long-term monitoring analytical results. The analytical results were non-detect or were detected at low levels consistent with concentrations detected during previous monitoring events (with the exception of groundwater from Well 10135, which is installed in an area of known Site impacts).

Historically, Well 10135 has had the most detected compounds and the highest concentrations detected. This well is located in the southwestern portion of the Site and within the fenced boundaries of the Site. Although located outside the barrier drain, Well 10135 is within the influence of the barrier drain based on hydraulic monitoring conducted at Well 10135 and at adjacent nested piezometer string 1160, as demonstrated in Table 3.7 and on Figures 3.5 (1160 cross-section) and 3.9 (groundwater contours for overburden), and as further discussed in Section 3.2.2.

As stated in the LTGMP, Well 10135, located in an isolated area of known contamination, is sampled as an indicator well. A trend analysis of contaminants detected in Well 10135 for the years 1990 through 2019 was performed and presented in the 2019 PRR. Based on the demonstrated long-term stability of parameter concentrations in Well 10135 and its presence within the influence of the barrier drain, it was concluded that no further trend analysis for this well was warranted.

As indicated in Section 3.2.1, Well 10178B was sampled during the 2020 sampling event at the request of the NYSDEC to provide additional data on groundwater quality in the overburden west of Well 10135. No VOCs or PCBs were detected in Well 10178B. One SVOC (bis(2-ethylhexyl)phthalate) and four pesticides (alpha-BHC, delta-BHC, gamma-BHC, and methoxychlor) were detected at very low concentrations in this well. The reported concentrations of



delta-BHC and methoxychlor were estimated, as they were detected below the laboratory's reporting limits.

Overburden Well 10178A, which did not exhibit any pesticide detections above the laboratory's reporting limits, was measured to be approximately 10.94 feet deep during the 2020 sampling event. The four pesticides detected in Overburden Well 10178B ranged in concentration from 0.021 micrograms per liter ($\mu\text{g/L}$) [estimated] (delta-BHC) to 0.069 $\mu\text{g/L}$ (alpha-BHC). This well was measured to be approximately 20.82 feet deep during the 2020 sampling event. The four pesticides detected in Well 10178B were detected in Overburden Well 10135 at concentrations ranging from 6.5 $\mu\text{g/L}$ (gamma-BHC) to 27 $\mu\text{g/L}$ (alpha-BHC). This well was measured to be approximately 29.50 feet deep during the 2020 sampling event. The four pesticides detected in Well 10178B were detected in Bedrock Well 10278 at concentrations ranging from 0.13 $\mu\text{g/L}$ (delta-BHC) to 0.48 $\mu\text{g/L}$ (gamma-BHC). This well was measured to be approximately 44.02 feet deep during the 2020 sampling event. All depths were relative to top of casing. Given that Well 10178B is shallower in depth than Well 10135 and that groundwater at Well 10135 flows eastwards into the barrier drain (see Section 3.2.2), it is unlikely that Well 10135 is the source of the pesticide detections in Well 10178B. Based on the very low concentrations of pesticides detected in Well 10178B, the detections are not a potential concern to groundwater quality.

3.2.1.2 Bedrock Monitoring Wells

The 2020 groundwater analytical results for the bedrock monitoring wells (Table 3.3) are consistent with previous long-term monitoring analytical results. Parameter concentrations were either non-detect or detected at low levels consistent with concentrations detected during previous monitoring events. Table 3.4 presents a summary of detections for each well sampled, arranged by parameter group.

3.2.1.3 Historical Compound Detections

Table 3.5 presents a summary of detected compounds of four long-term monitoring wells, consisting of three bedrock wells and one overburden well (Bedrock Wells 10210A, 10210B, and 10210C, and Overburden Well 10135) from 1990 to 2020. The data from these four wells are presented because they have the most consistent historical record of compound detections compared to the other overburden and bedrock wells. As discussed in Sections 3.2.1.1 and 3.2.1.2, the data from the additional Site wells not presented in Table 3.5 are typically non-detect or demonstrate sporadic low level detections and, therefore, do not present useful data in regards to a discussion of historical analytical trends at the Site. An evaluation of the 2020 sampling data for the four wells mentioned above shows that the compounds detected in 2020 are present at sporadic low-level concentrations or concentrations consistent with historical trends.

3.2.2 Hydraulic Containment

Hydraulic monitoring consists of water level measurements conducted quarterly from six nested piezometer strings (1140, 1150, 1160, 1170, 1180, and 1190) per the NYSDEC-approved long-term groundwater monitoring plan (LTGMP), as well as NYSDEC-requested water level measurements collected from four wells (7161, 9130, 9140, and 10135). Well 10135 was added to the hydraulic monitoring program during the first quarter of 2020, as per the United States Environmental Protection Agency's (USEPA's) recommendation in its Fourth Five-Year Review Report for the Site,



in order to demonstrate that this well is within the hydraulic influence of the barrier drain. In 2020, water levels were measured in March, June, September, and December. The water level data for the six nested piezometer strings are presented in Tables 3.6A to 3.6F. The wells on the tables are ordered from left to right on the table, beginning with the well furthest from the outside of the barrier drain to the well inside the area enclosed by the barrier drain. They are also ordered based on screen depth corresponding with the geologic stratum (e.g., fractured clay, soft, clay, and glacial till) as requested by NYSDEC in its letter dated October 21, 2016. Figures 3.3 to 3.8 show the overburden groundwater flow conditions for June 2020 at the six nested piezometers string locations based on geologic stratum consistent with the above.

Piezometer string groundwater elevation data from the remaining three quarters (March, September, and December 2020) demonstrate that the data from those monitoring periods are consistent with the June 2020 data.

In addition to the above-mentioned information, groundwater contour figures were prepared using the June 2020 water levels from the six nested piezometer strings, overburden well 10176C, seven bedrock monitoring wells, and four additional overburden wells (7161, 9130, 9140, and 10135) as requested by NYSDEC. Separate figures were prepared for the overburden and bedrock groundwater elevation contours. The June 2020 groundwater contour figures for the overburden and bedrock are presented as Figures 3.9 and 3.10, respectively.

The overburden groundwater contour figure (Figure 3.9) and Tables 3.6A to 3.6F illustrate that there is a minimum of 1.00 feet of inward gradient outside of the barrier drain at each of the six nested piezometer strings in the various geologic units. The term "feet of inward gradient" means the minimum difference in groundwater elevation between the wells on the outside of the barrier drain and the water level within the barrier drain, with the water level within the barrier drain representing the lowest water level elevation. This demonstrates that groundwater on the outside of the barrier drain (off-Site groundwater) is flowing toward and downward into the barrier drain. Based on the water level data from the six nested piezometer strings, an inward gradient can be inferred to exist around the collection drain system, demonstrating that the horizontal groundwater flow direction outside of the barrier drain is towards the barrier drain. A review of Figure 3.9 shows that groundwater flow on the inside of the barrier drain is also towards the barrier drain. Therefore, the barrier drain and lateral trenches are capturing leachate from the landfill area and a portion of groundwater outside the barrier drain, thereby preventing off-Site migration of chemicals and preventing off-Site groundwater from migrating into the landfill area.

Table 3.7 presents the 2020 quarterly groundwater elevations measured in Well 10135 and in piezometers 1161E, 1163A, and 1165A. The 1160 piezometer string is the closest piezometer string to Well 10135, and piezometers 1161E, 1163A, and 1165A are screened in the same stratigraphic unit as Well 10135 (soft clay). Piezometer 1165A is approximately the same horizontal distance to the barrier drain as Well 10135 is. As shown in Table 3.7, the quarterly groundwater elevations measured in Well 10135 were always lower than the groundwater elevations measured in 1165A in 2020. Therefore, there was an inward gradient extending from Piezometer 1165A through Well 10135 and into the barrier drain during all four quarters of 2020. Based on the inward gradient, chemical impacts identified at Well 10135 are being captured by the barrier drain (i.e., Well 10135 is hydraulically contained).



As demonstrated on Figure 3.10, groundwater in the bedrock was generally flowing from east to west across the Site during the June 2020 hydraulic monitoring event.

Monitoring will continue during 2021 as per the NYSDEC-approved LTGMP, and Well 10135 will continue to be monitored during the quarterly hydraulic monitoring events.

3.2.3 Colvin Boulevard Sewer System NAPL Presence

Overburden Monitoring Well MW-3 was installed on July 1, 2011, within the bedding material of a newly repaired sanitary sewer line on Colvin Boulevard (Figure 2.1). The purpose of this well was to monitor for the presence of residual non-aqueous phase liquid (NAPL) similar to that observed in the bedding material during construction/repair activities. Following well development, MW-3 was monitored for the presence of NAPL on a weekly basis starting on July 19, 2011 and ending on October 7, 2011. No NAPL or visible sheen was detected during these weekly monitoring events. Based on these results, it was concluded that the NAPL that had been observed sporadically during the sewer repair activities was likely limited in volume and mobility. As such, in the report "Colvin Boulevard Sewer Repair Supplemental Subsurface Investigation Report, Colvin Boulevard and 96th Street," dated October 2011, GSH recommended/requested that additional monitoring of MW-3 be continued on a quarterly basis. The NYSDEC approved this request in a letter dated June 5, 2012. The last weekly monitoring event was conducted on August 3, 2012.

Well MW-3 has been monitored on a quarterly basis for the presence of NAPL since November 5, 2012. To date, no NAPL or visible sheen has been detected in this well. As requested by the NYSDEC in an email dated August 10, 2018, the dates of all previous quarterly NAPL checks at MW-3 were included in the 2018 PRR. In 2020, the quarterly NAPL checks at MW-3 were conducted on March 2, June 2, September 2, and December 9. No NAPL or visible sheen was observed.

3.2.4 Well Maintenance

The 2020 well inspections identified the need for routine maintenance on several wells at the Site. Maintenance was conducted during the summer of 2020 and included the following:

- Replacement of locks.

3.2.5 Summary of Treatment and Monitoring Results

The volume of effluent discharge from the LCTF decreased from 4,840,275 gallons in 2019 to 3,356,298 gallons in 2020, a number consistent with volumes from previous years with similar precipitation levels. Quarterly sampling and analysis results submitted to both the NFWB and NYSDEC indicated that all chemistry detected in the effluent samples for each event was either non-detect or present at very low levels within historical ranges and well below the Site's SIU Discharge Permit #44 discharge limits.

The inward hydraulic gradient observed at each of the six nested piezometer strings demonstrates that the barrier drain is effectively capturing leachate from the Site and preventing off-Site migration of chemicals. The analytical results from the monitoring wells sampled indicate that compounds were either not detected or were detected at low levels below or consistent with concentrations from



previous years (with the exception of groundwater from Well 10135, discussed in Section 3.2.1.1), further illustrating containment.

The presence of an overall inward hydraulic gradient towards the barrier drain and a review of groundwater quality for the groundwater monitoring wells demonstrate overall Site containment.

4. Activities

Summaries of normal activities and repairs performed in 2020 are presented below.

4.1 Process Activities

Process activities that occurred during the year included the following:

- Removal and disposal of hazardous waste
- Cleaning of all pump chambers
- Cleaning of all storage tanks
- Cleaning of sludge from clarifier

4.2 Non-Process Activities

Non-process activities that occurred during the year included the following:

- Preventative maintenance
- Repair and maintenance of pump chambers and flow meters
- Repair and maintenance of fences and gates
- Landscape maintenance including grass cutting and tree and flower bed maintenance
- Upgrading computer system software
- Heating and cooling system maintenance
- Repair of lights
- Regrading of two small, low areas in the surface of the landfill cap (Refer to Section 4.5)

4.3 Community Outreach

Community Outreach programs have included such activities as beautification of the area surrounding the Site and tours of the facility.

4.3.1 Beautification

The following beautification activities were conducted at Love Canal in 2020:

- Maintenance and landscaping of the Site and surrounding areas



- Maintenance of flower beds and shrubs along Colvin Boulevard, 95th Street, and Frontier Avenue
- Cleanup of discarded debris along fence line

4.3.2 Tours

Tours of the facility have been given throughout the years to representatives of various environmental agencies (domestic and foreign) and educational groups. The tours include an informational orientation, accompanied with visual aids, followed by a guided tour of the treatment facility and landfill. No tours were given in 2020.

4.3.3 Communications

All required reports were prepared and submitted to various agencies throughout the year. Reports included the 2019 Annual Hazardous Waste Report to the NYSDEC, the 2019 Periodic Review Report (formerly titled the Annual Operations and Monitoring Report) to various agencies, quarterly SIU analytical reports to the NFWB and NYSDEC, and monthly SIU reports to the NFWB.

The Love Canal Annual Newsletter for 2019 was issued to surrounding citizens and agencies in March 2020. The report summarizes items such as the amount of groundwater treated on Site and then discharged to NFWB's sanitary sewer system, maintenance activities, and other non-operational activities for the year.

4.4 Waste Generation

Throughout 2020, both hazardous and nonhazardous waste was generated from various activities and disposed of off Site in accordance with applicable laws and regulations.

The tracking of hazardous waste is performed by regulated hazardous waste manifests. A summary of the Site's annual hazardous waste generation is reported to the NYSDEC in the Annual Hazardous Waste Report. The Annual Hazardous Waste Report summarizes the quantities, transporters, and disposal methods.

A total of 17,346 pounds of hazardous waste was generated from the activities listed below. The waste materials were sent off Site for disposal in accordance with applicable laws and regulations. Wastes generated in 2020 were disposed through incineration by Clean Harbors, LLC and Veolia ES Technical Solutions, LLC.

The hazardous waste disposed of in 2020 consisted of soil/debris and NAPL sludge as follows:

- Soil/Debris: 1,346 pounds (consisting of personal protective equipment [PPE], spent filter bags, and general debris)
- NAPL Sludge: 16,000 pounds (collected from LCTF process)

4.5 Routine Operations, Inspections, and Monitoring

A daily inspection of the system operations was performed for each day in 2020 in accordance with the O&M Manual for the Love Canal Site, dated March 2015. Inspection records are available upon request.



Monthly inspections, including fire extinguishers and carbon vapor phase vents for breakthrough were also completed in accordance with the O&M Manual. Inspection records are available upon request.

Semiannual inspection of the landfill cap surface (Appendix B) was conducted on May 21, 2020 and November 9, 2020. Two small, low areas in the surface of the landfill cap were observed southwest of PC-1 in 2019 (refer to 2019 PRR) and were noted again during the May 2020 inspection. As noted in a letter dated February 20, 2020 from GSH to the NYSDEC, GSH completed an engineering evaluation of the low areas and confirmed that GSH should fill the depressions with soil, as NYSDEC had suggested in its June 18, 2019 letter. These low areas were addressed from October 5 through October 13, 2020 by Niagara Grass Cutting. The two low areas were brought to grade with the surrounding cap area using approximately 200 yards of clean, imported topsoil. Depressions in the access road near PC-1 were regraded using approximately 45 tons of clean, imported 1-inch crusher run stone. A roller was used to compact the access road and cap area. The regraded cap area was then hand seeded and covered with straw. A photographic log of the cap and access road before, during, and after the regrading is included as Appendix I. The locations of the cap regrading are noted on Figure 2.1.

The NYSDEC conducted a Site inspection (landfill and treatment system) on July 7, 2020. No issues were identified other than the low areas in the cap, which were addressed in October 2020. The NYSDEC did not conduct a hazardous waste compliance inspection of the Site in 2020.

The NFWB performed an annual inspection of the LCTF and performed verification sampling of the effluent discharge on September 4, 2020. The inspection and the annual effluent verification sampling concluded that the Site is being maintained and operated in accordance with the Site's SIU discharge permit and other local, State, and Federal requirements. The completed NFWB 2020 Inspection Form is included as Appendix G.

The USEPA conducted its Five-Year Review inspection of the Site on November 6, 2018. Representatives of the USEPA, NYSDEC, Niagara County Department of Health, GSH, and GHD were in attendance. No issues were identified. The USEPA's Five-Year Review Report was published on April 11, 2019. In the report, the USEPA indicated that no issues were identified as part of the Five-Year Review, however several minor suggestions were incorporated in the 2019 PRR. The fifth Five-Year Review is scheduled for 2023.

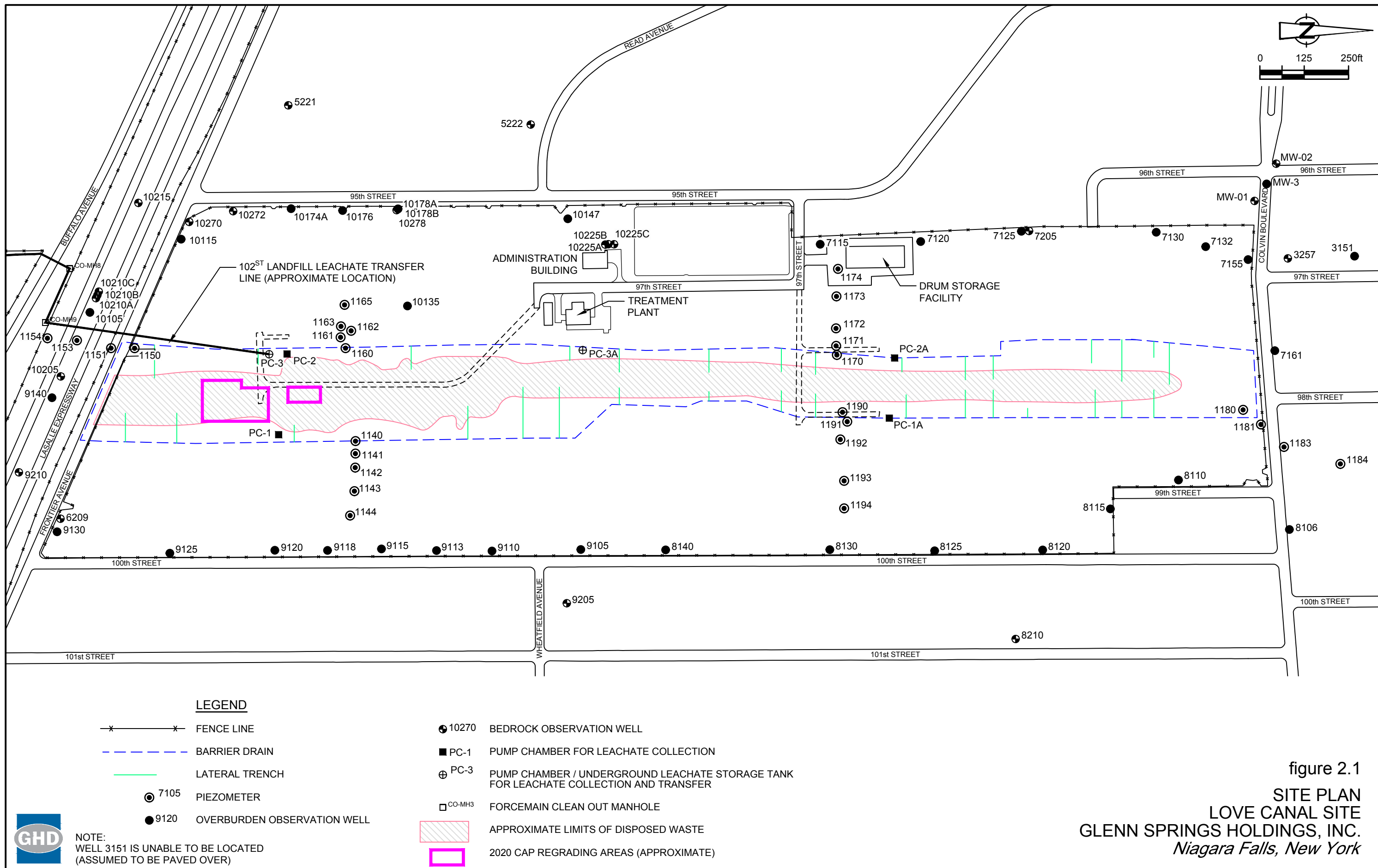
The backflow preventer system on the potable water supply lines was inspected and tested by CamTech Plumbing and Mechanical Inc. (CamTech) on February 25, 2020. CamTech is licensed and certified by the NFWB to perform the backflow preventer system inspections. All five backflow prevention devices were found to be operational with no maintenance required. A copy of the 2020 Test and Maintenance of Backflow Prevention Device Report for each device is presented in Appendix H.

The annual fire system inspection was conducted on June 9, 2020. No issues were identified.



5. Conclusion

The 2020 monitoring results show that there has been no significant change in chemical concentration conditions and that the barrier drain system is successfully capturing leachate from the Site and preventing off-Site migration of contamination. The barrier drain continues to create an inward hydraulic gradient and capture leachate from the Site, preventing off-Site migration of chemicals, as evidenced by the groundwater gradients depicted on Figures 3.3 to 3.9 and analytical data from observation wells around the perimeter of the Site. The collection system is functioning as designed based on groundwater monitoring results and third-party inspections by the NYSDEC. The treatment system is functioning as designed based on inspections and sampling by the NFWB and sampling by GSH. Effluent quality is compliant with the Site's SIU discharge permit. There were 3,356,298 gallons of leachate collected, treated, and discharged from the Site, of which 3,236,167 gallons of leachate were collected from the Site, and 120,131 gallons were collected from the 102nd Street Site and pumped to the LCTF for treatment. Monitoring results continue to confirm that the remediation and containment system (i.e., the leachate collection and treatment system) is functioning as designed.



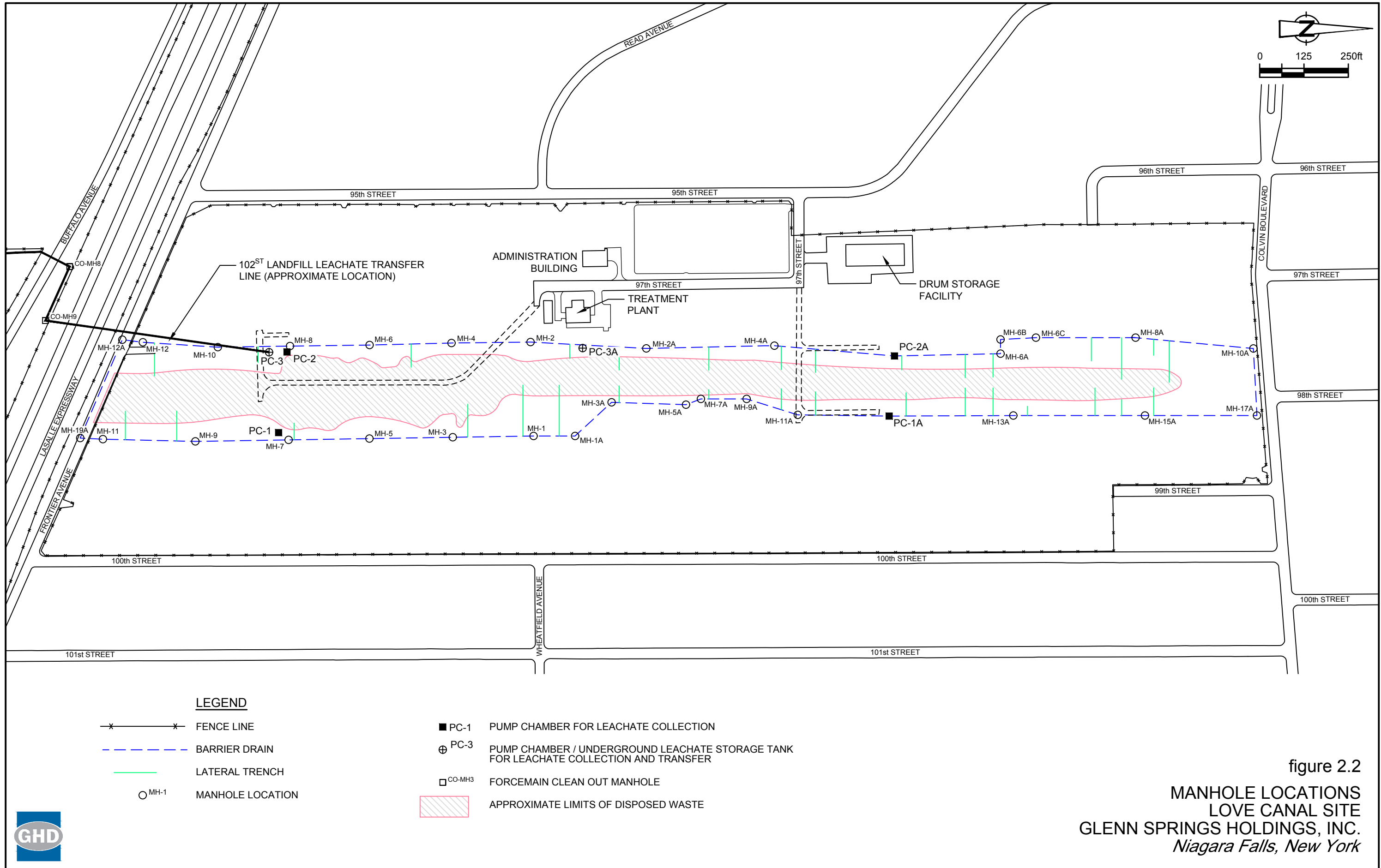


figure 2.2
 MANHOLE LOCATIONS
 LOVE CANAL SITE
 GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York



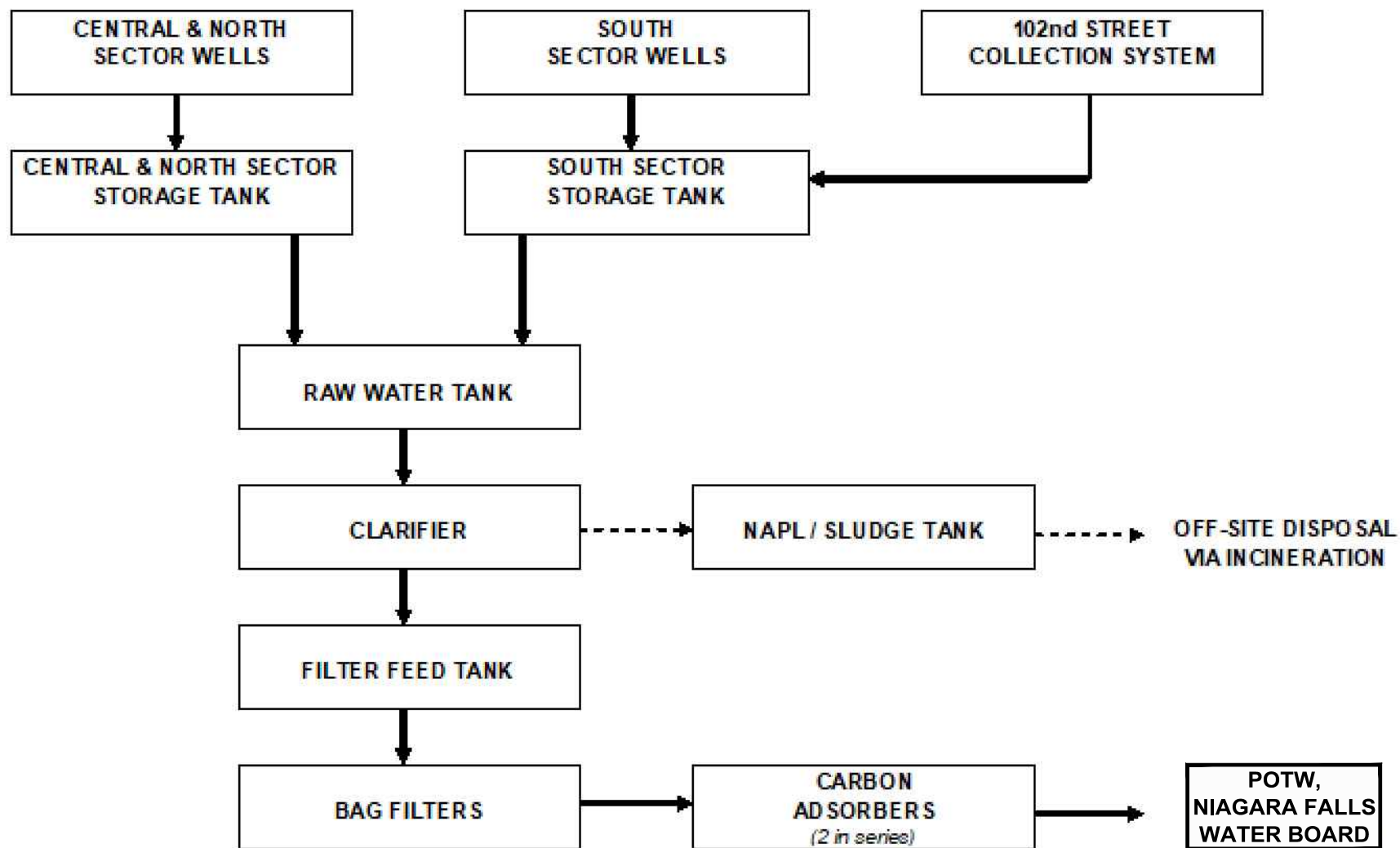


figure 3.1

PROCESS SCHEMATIC
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York



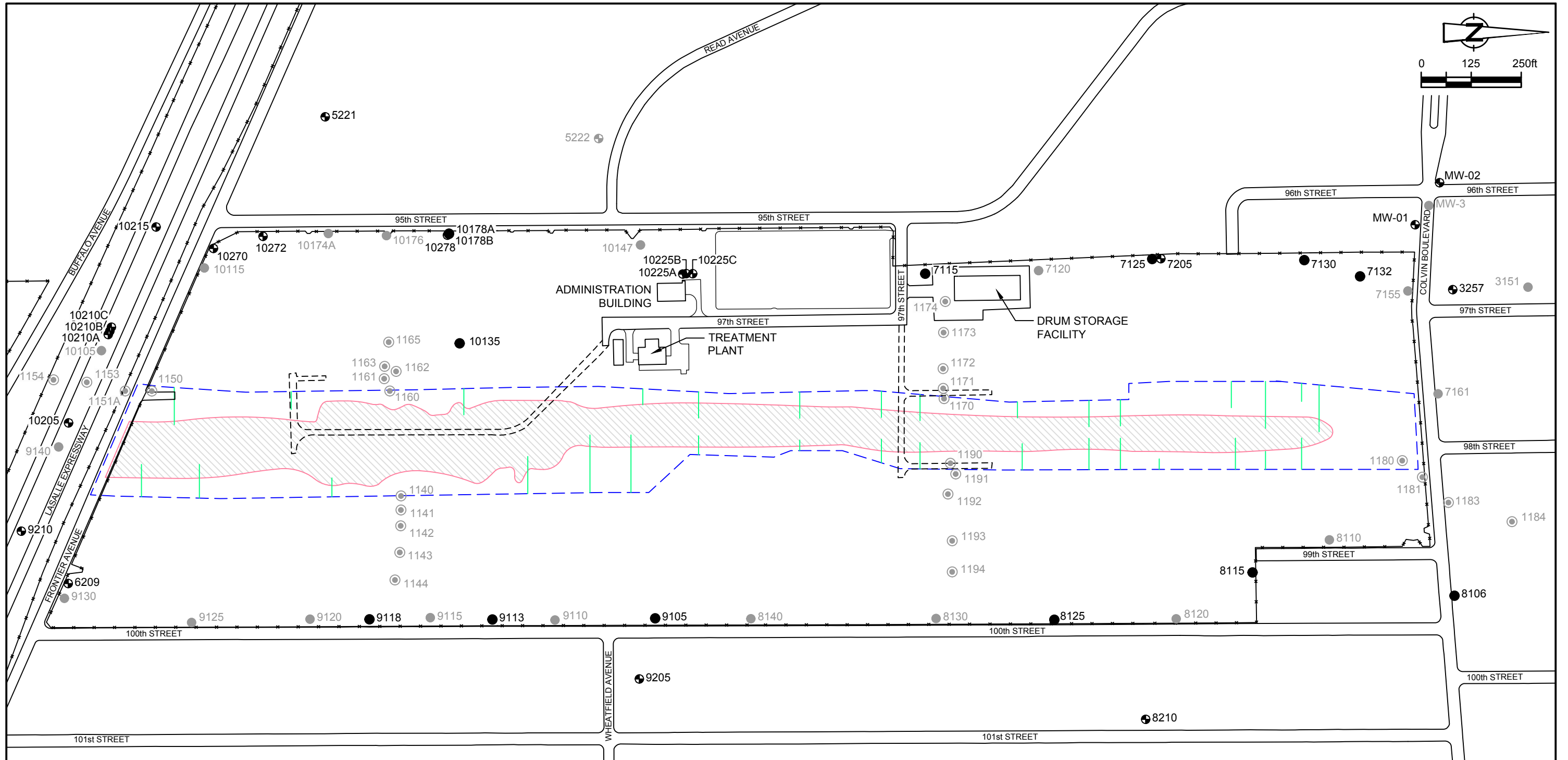


figure 3.2
2020 GROUNDWATER MONITORING LOCATIONS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York



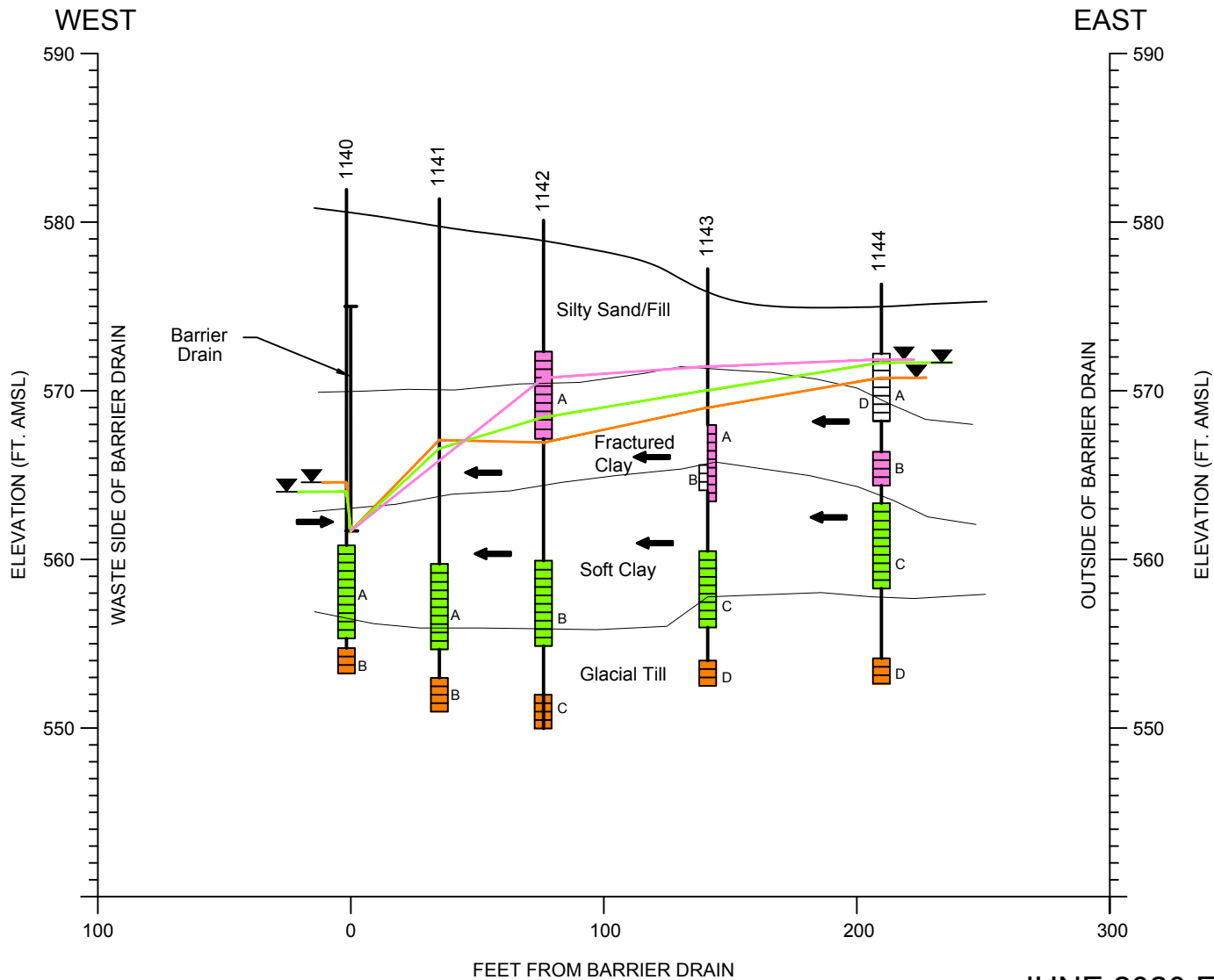


figure 3.3

LEGEND

- | | | | |
|----------|------------------------|--|----------------------------------|
| A | PIEZOMETER DESIGNATION | | GLACIAL TILL GROUNDWATER LEVEL |
| | FLOW DIRECTION | | FRACTURED CLAY GROUNDWATER LEVEL |
| | SCREENED INTERVAL | | SOFT CLAY GROUNDWATER LEVEL |



- NOTES:**
- (1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
 - (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

JUNE 2020 FLOW DIAGRAM
1140 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

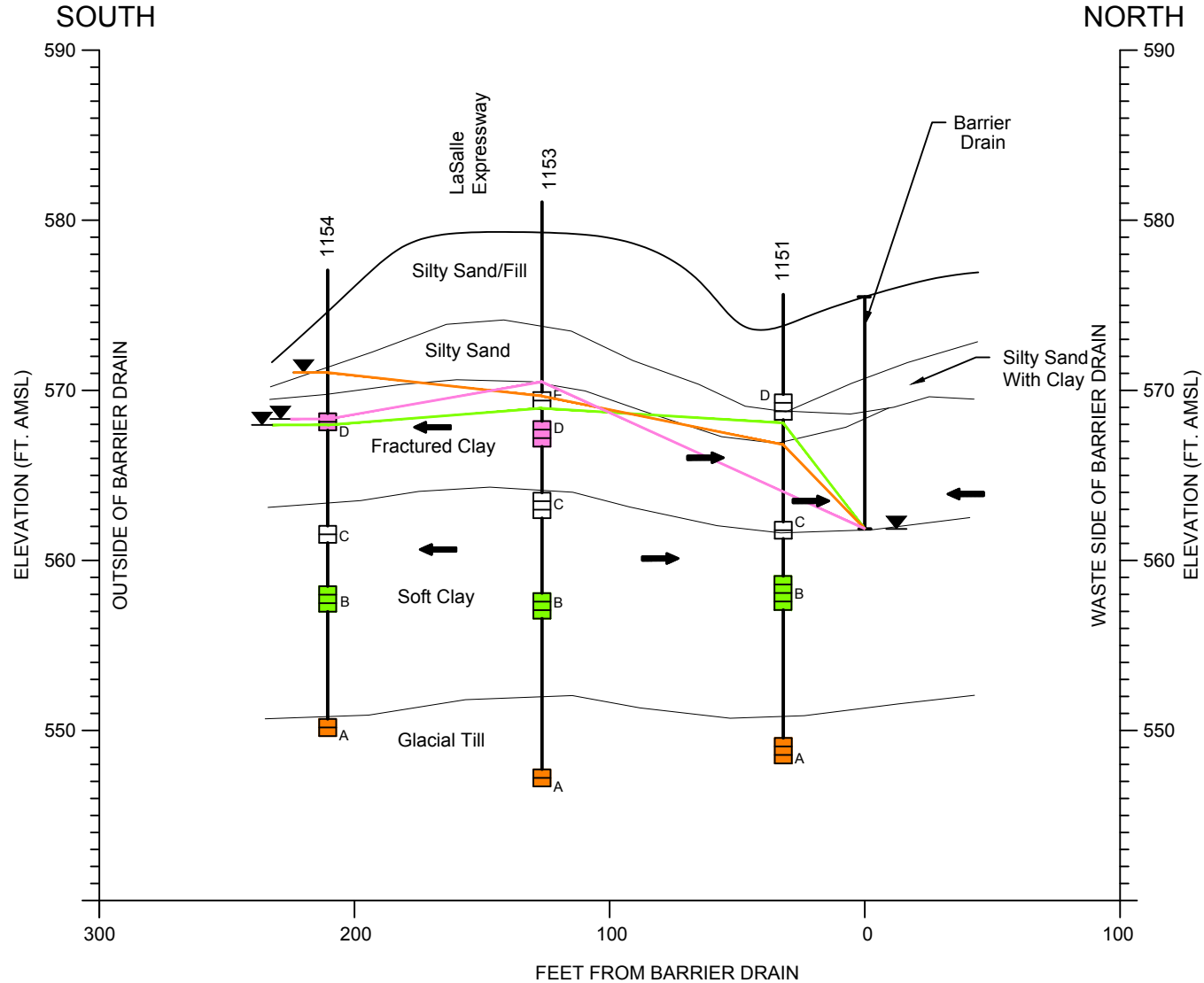


figure 3.4

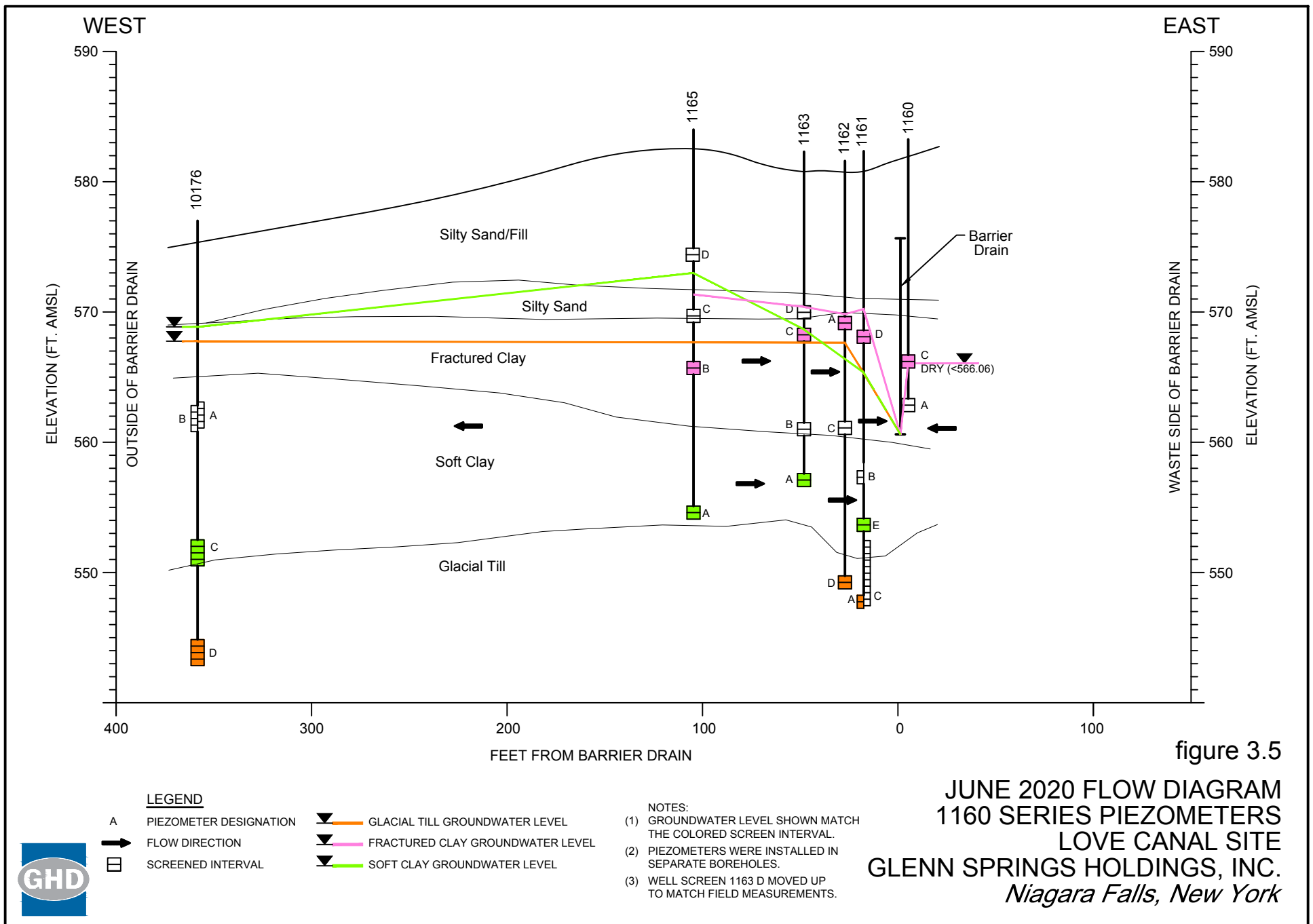
**JUNE 2020 FLOW DIAGRAM
1150 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York**

LEGEND

- | | | |
|---|------------------------|----------------------------------|
| A | PIEZOMETER DESIGNATION | GLACIAL TILL GROUNDWATER LEVEL |
| → | FLOW DIRECTION | FRACTURED CLAY GROUNDWATER LEVEL |
| □ | SCREENED INTERVAL | SOFT CLAY GROUNDWATER LEVEL |

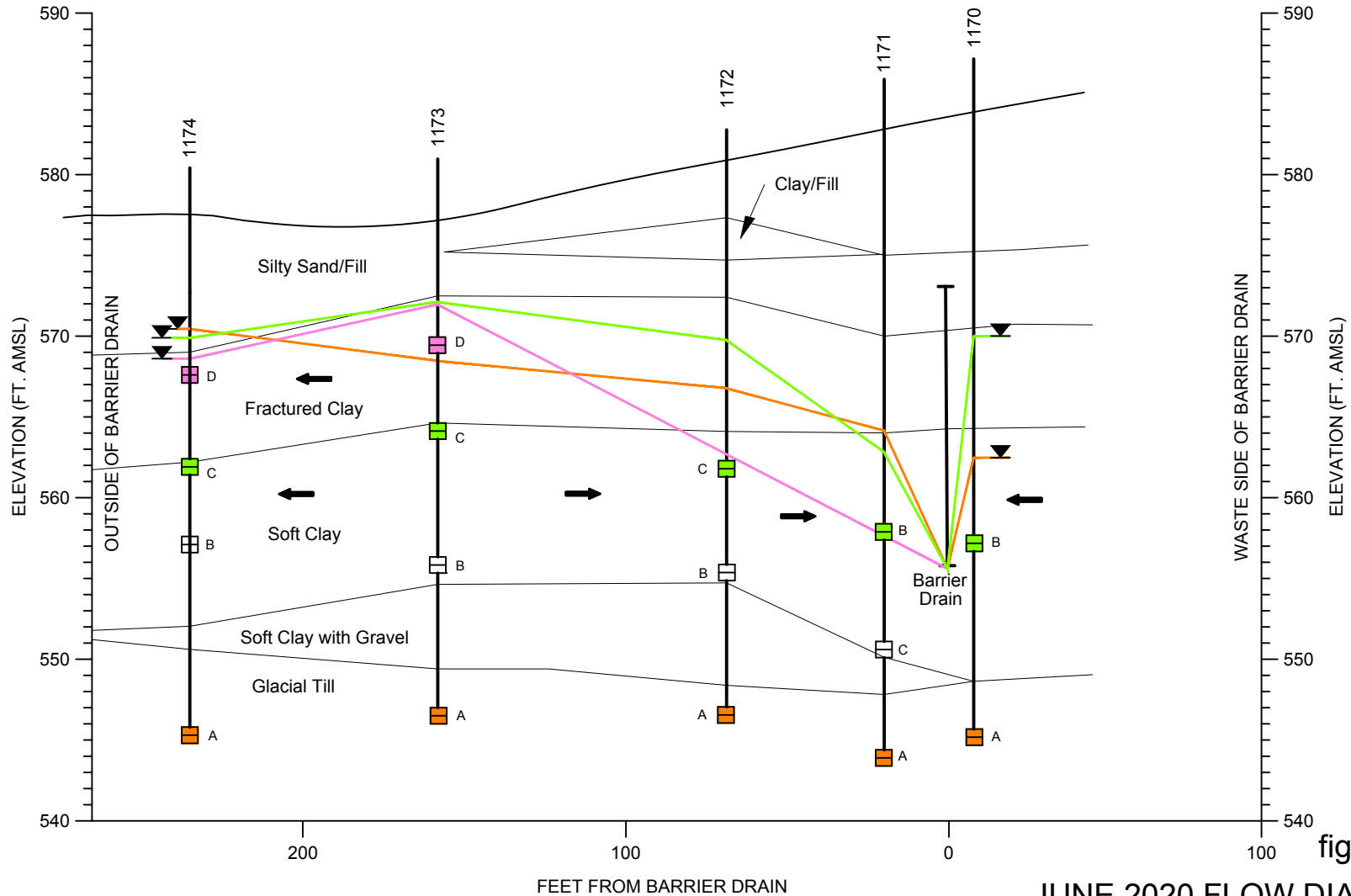
- NOTES:**
- (1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
 - (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.





WEST

EAST



LEGEND

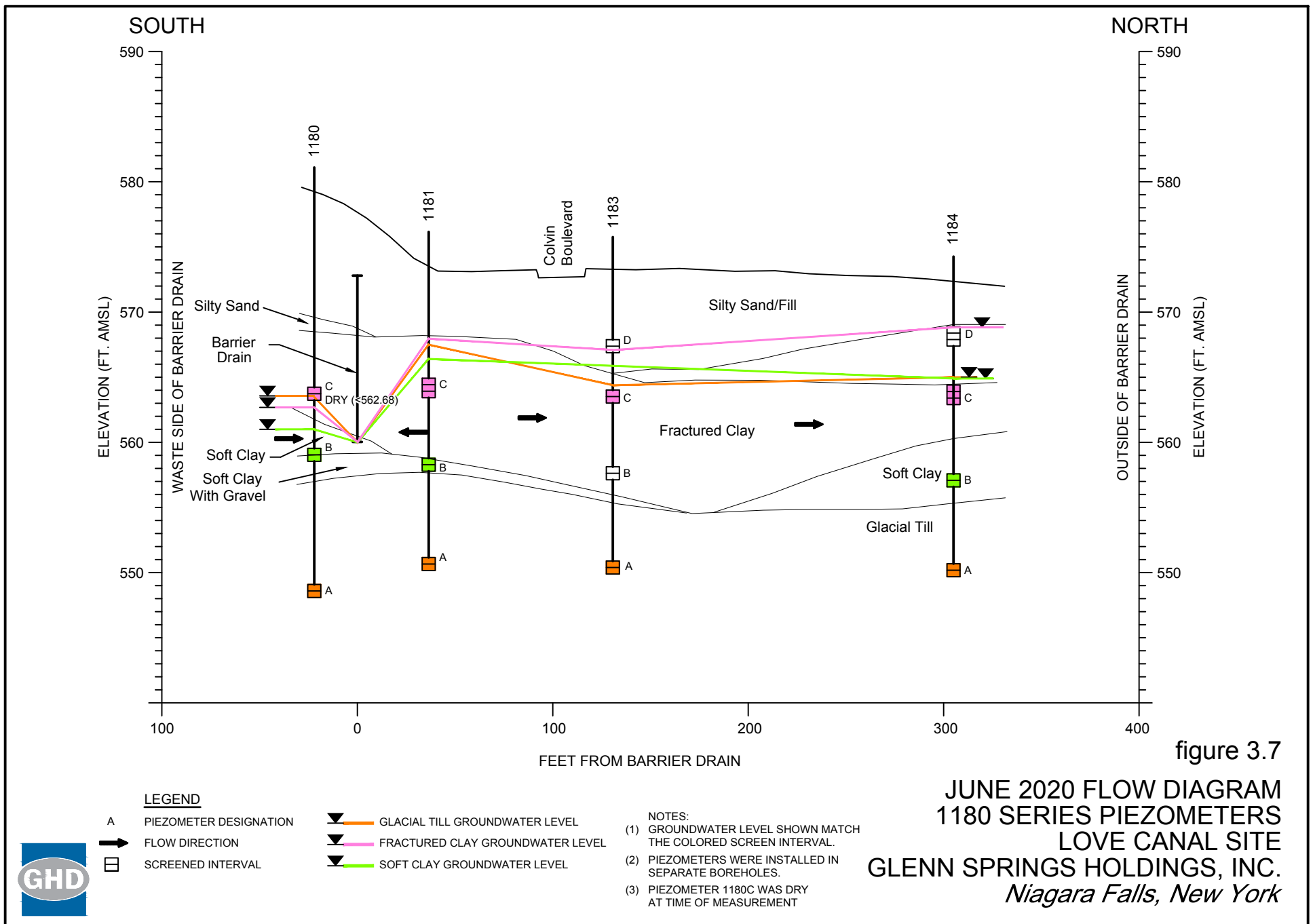
- | | | |
|---|------------------------|----------------------------------|
| A | PIEZOMETER DESIGNATION | GLACIAL TILL GROUNDWATER LEVEL |
| → | FLOW DIRECTION | FRACTURED CLAY GROUNDWATER LEVEL |
| □ | SCREENED INTERVAL | SOFT CLAY GROUNDWATER LEVEL |

- NOTES:
- (1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
 - (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

figure 3.6

JUNE 2020 FLOW DIAGRAM
1170 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York





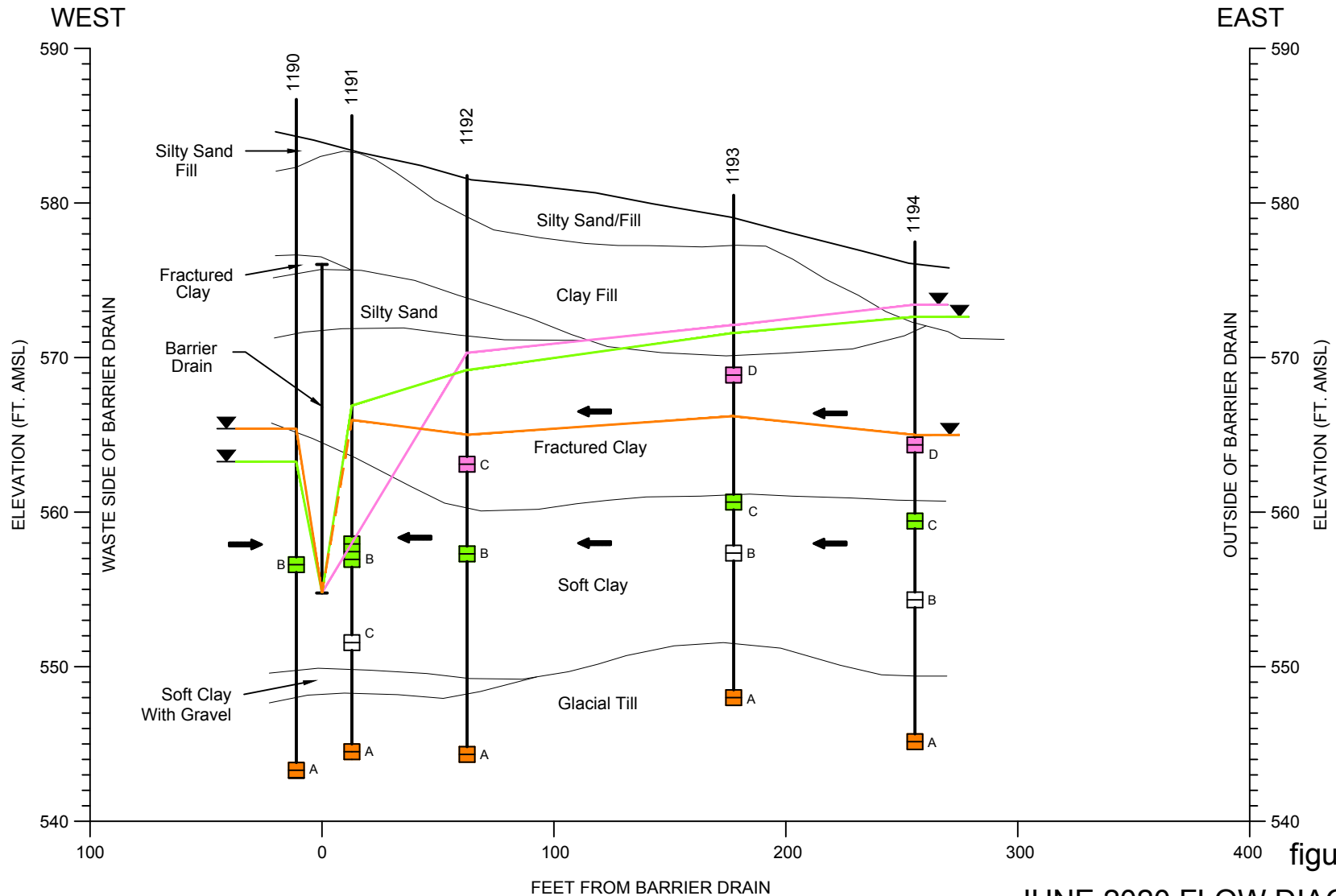


figure 3.8

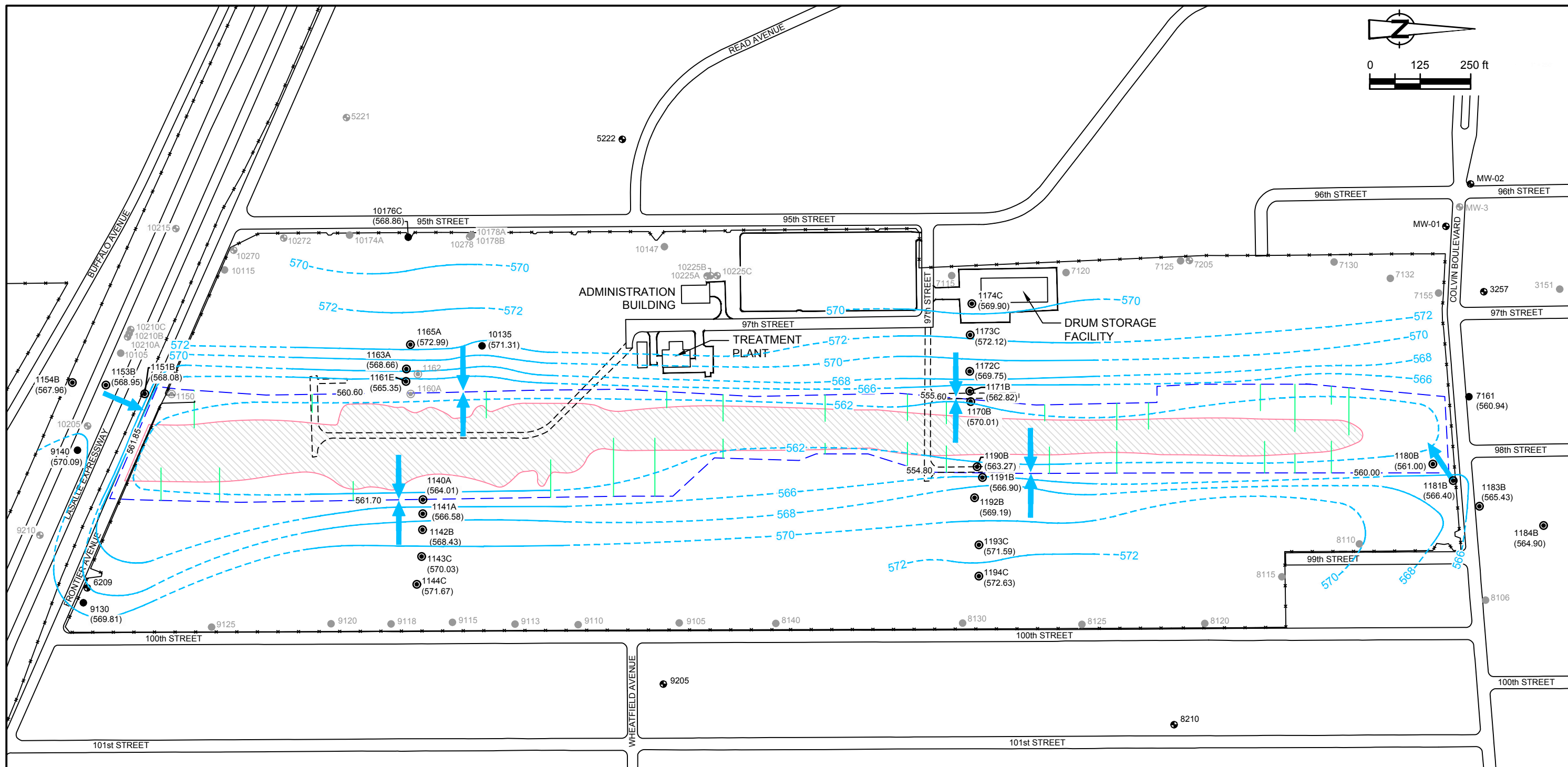
LEGEND

- | | | |
|---|------------------------|----------------------------------|
| A | PIEZOMETER DESIGNATION | GLACIAL TILL GROUNDWATER LEVEL |
| → | FLOW DIRECTION | FRACTURED CLAY GROUNDWATER LEVEL |
| □ | SCREENED INTERVAL | SOFT CLAY GROUNDWATER LEVEL |

- NOTES:
- (1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
 - (2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

**JUNE 2020 FLOW DIAGRAM
1190 SERIES PIEZOMETERS
LOVE CANAL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York**





LEGEND

- x—x—x— FENCE LINE
- - -554.80- - - ELEVATION OF THE BOTTOM OF THE BARRIER DRAIN
- LATERAL TRENCH
- 7105 PIEZOMETER
- 9120 OVERBURDEN OBSERVATION WELL
- 7105 PIEZOMETER (NOT PART OF HYDRAULIC MONITORING PROGRAM)
- 9120 OVERBURDEN OBSERVATION WELL (NOT PART OF HYDRAULIC MONITORING PROGRAM)

- 5222 BEDROCK OBSERVATION WELL
- 5221 BEDROCK OBSERVATION WELL (NOT PART OF HYDRAULIC MONITORING PROGRAM)
- APPROXIMATE LIMITS OF DISPOSED WASTE
- (571.67) GROUNDWATER ELEVATION
- 566— GROUNDWATER CONTOUR
- - - INFERRED GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

figure 3.9
 JUNE 2, 2020 - OVERBURDEN GROUNDWATER CONTOURS
 LOVE CANAL SITE
 GLENN SPRINGS HOLDINGS, INC.
 Niagara Falls, New York

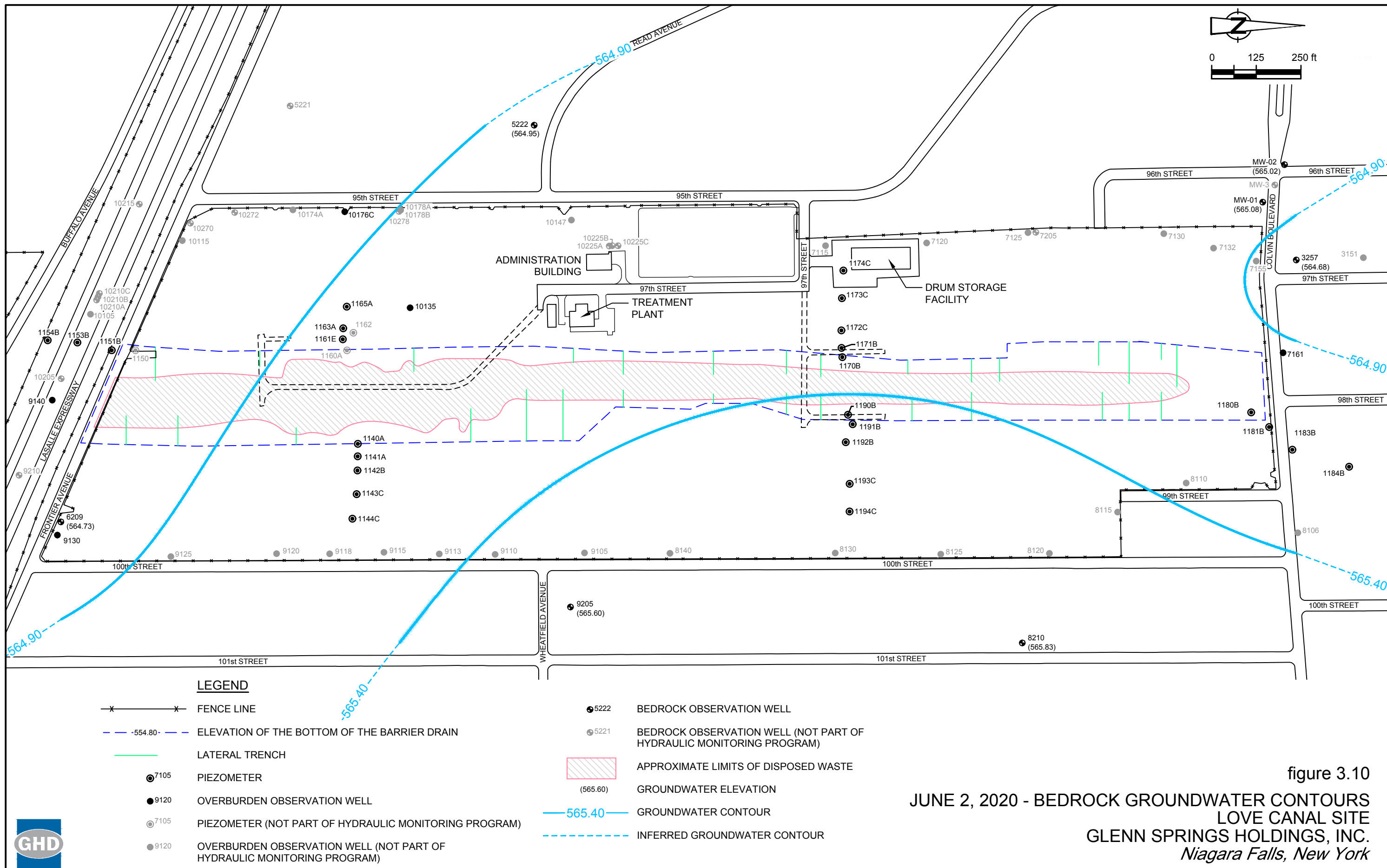


Table 3.1
Monthly Volumes of Groundwater Treated
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	Gross ⁽¹⁾	495,800	396,900	488,900	419,400	309,200	841,400	855,900	993,400	674,000	523,500	534,400	346,900	571,900	600,400	519,614	363,043	385,636	563,854	499,356	566,916	775,829
	Net ⁽²⁾	280,364	282,480	422,682	374,123	260,171	796,518	817,305	970,918	649,777	495,713	471,805	322,994	546,816	575,767	499,889	346,565	370,676	548,797	489,418	558,881	765,891
	Days ⁽³⁾	21	20	21	14	10	17	16	20	18	16	17	18	15	18	20	14	18	19	20	26	29
February	Gross	480,400	560,000	663,700	266,300	330,000	440,200	437,300	216,600	570,000	506,700	314,300	375,800	656,700	495,900	291,292	68,244	634,159	371,608	692,324	486,978	499,075
	Net	368,492	468,863	608,116	231,049	291,082	401,137	405,124	174,776	539,772	485,869	276,643	349,712	634,167	478,434	277,226	55,548	619,942	357,557	684,088	480,242	490,839
	Days	21	19	20	13	9	11	9	7	16	13	10	19	16	19	15	16	19	13	24	26	28
March	Gross	505,500	616,400	364,900	721,500	1,038,400	698,900	436,800	582,500	570,500	606,900	550,100	1,003,700	384,500	488,000	388,937	658,775	544,972	641,911	492,694	356,288	544,126
	Net	290,501	493,476	316,696	667,337	986,332	667,105	402,047	560,237	550,518	582,109	526,021	978,000	363,378	467,083	375,154	642,149	529,757	629,687	483,107	345,457	534,539
	Days	23	21	21	17	21	13	13	16	12	18	17	21	16	20	17	20	21	20	24	16	27
April	Gross	675,600	352,300	689,700	432,800	800,400	805,300	184,800	447,200	602,000	414,900	498,200	676,400	334,400	533,800	786,808	575,949	531,147	1,053,394	751,811	632,012	359,309
	Net	547,926	262,946	629,683	380,745	767,982	769,514	155,028	420,133	574,359	377,080	466,778	652,656	316,188	516,478	768,257	561,287	517,498	1,041,670	742,237	621,937	349,735
	Days	20	20	20	16	17	14	6	14	12	16	15	11	18	22	20	17	19	24	28	25	28
May	Gross	473,300	311,200	589,500	425,400	326,500	183,400	121,800	323,200	172,900	306,200	379,400	942,700	363,100	148,500	444,598	113,599	175,158	983,450	169,570	579,868	214,573
	Net	335,331	207,580	532,251	379,299	294,612	156,846	93,394	297,471	147,715	267,700	348,837	917,206	341,424	129,687	428,177	99,179	163,324	971,685	160,642	570,737	205,645
	Days	20	17	20	14	10	5	4	12	11	14	18	17	16	18	21	12	15	25	18	19	23
June	Gross	632,200	202,200	395,100	367,900	253,200	160,800	130,700	173,300	128,700	110,000	205,200	473,100	142,000	497,300	168,921	262,025	98,255	178,582	110,862	248,940	147,455
	Net	486,721	132,132	347,485	303,576	208,659	118,979	104,449	148,638	107,411	79,200	174,305	449,046	118,568	478,285	152,639	245,083	83,122	164,597	101,522	239,997	138,115
	Days	20	16	14	13	9	6	5	4	6	7	13	16	12	18	12	19	11	15	10	12	14
July	Gross	333,900	182,200	194,500	187,700	137,700	92,600	195,500	129,100	164,760	187,900	85,600	79,700	98,400	280,000	151,772	138,495	77,140	335,930	103,168	134,549	91,978
	Net	184,955	111,941	145,344	142,849	111,217	78,234	183,084	99,026	141,442	153,170	55,670	53,632	72,435	260,823	123,921	122,874	62,847	322,782	95,872	125,685	84,682
	Days	20	16	16	11	7	3	5	6	6	7	4	5	9	19	15	16	12	18	8	10	8
August	Gross	437,100	267,200	151,300	158,600	301,900	98,800	322,440	120,800	197,340	369,400	184,300	193,900	73,960	193,144	98,166	108,376	65,714	242,754	91,721	105,894	77,128
	Net	286,925	194,821	107,928	114,497	269,934	55,055	293,900	106,040	191,068	347,425	162,562	166,652	49,422	168,418	83,010	91,308	50,772	228,321	79,817	99,061	64,652
	Days	23	18	17	8	10	5	10	5	6	18	8	13	8	21	9	7	6	17	7	8	8
September	Gross	209,600	144,900	148,600	105,800	484,800	317,900	249,160	68,400	152,200	101,500	88,100	47,800	161,100	131,289	139,016	151,905	96,279	114,926	95,188	217,213	101,043
	Net	82,263	81,619	94,401	60,350	435,482	284,315	213,343	49,041	122,101	76,057	56,678	21,679	136,728	110,397	111,392	134,935	79,011	100,242	83,595	204,446	89,450
	Days	20	16	12	7	12	8	7	4	9	7	2	6	17	23	13	12	11	8	8	11	10
October	Gross	264,300	438,500	154,600	211,000	135,700	486,300	919,200	173,000	296,100	199,200	120,200	417,500	318,400	503,036	121,075	146,842	124,508	286,862	132,231	333,060	92,146
	Net	134,248	348,153	108,226	211,000	94,476	445,560	892,734	141,650	274,068	129,035	88,537	389,696	291,391	480,233	94,680	123,794	104,726	270,291	119,798	319,915	79,713
	Days	20	18	13	9	4	10	18	8	13	8	5	14	19	20	18	11	11	12	11	19	15
November	Gross	250,900	250,400	360,800	356,800	211,400	524,600	691,800	90,100	449,700	210,100	263,400	350,100	526,900	538,978	107,729	146,722	101,686	686,365	635,923	450,485	100,055
	Net	132,728	194,481	306,258	310,650	186,999	494,443	658,765	77,506	414,149	152,302	233,159	322,735	504,290	520,087	85,439	127,799	85,421	669,770	625,250	433,375	89,382
	Days	17	16	14	12	5	14	14	3	14	12	15	12	20	19	12	15	11	22	21	25	18
December	Gross	522,600	555,300	549,600	692,300	674,400	502,000	510,400	345,700	757,500	506,200	510,900	952,000	517,700	677,411	471,085	155,368	335,448	278,817	626,070	728,072	353,581
	Net	421,149	475,856	496,556	643,735	622,403	476,165	492,900	317,790	733,582	467,578	483,221	926,201	493,061	660,890	456,099	138,929	318,036	264,686	616,013	716,352	343,524
	Days	17	18	15	14	14	12	12	8	20	17	17	19	14	17	14	13	14	19	28	28	22
Total	Gross	5,281,200	4,277,500	4,751,200	4,345,500	5,003,600	5,152,200	5,055,800	3,663,300	4,735,700	4,042,500	3,734,100	5,859,600	4,149,060	5,087,758	3,689,013	2,889,343	3,170,102	5,738,453	4,400,918	4,840,275	3,356,298
	Net	3,551,603	3,254,348	4,115,626	3,819,210	4,529,349	4,743,871	4,712,073	3,363,226	4,445,962	3,613,238	3,344,216	5,550,209	3,867,868	4,846,582	3,455,883	2,689,450	2,985,132	5,570,085	4,281,359	4,716,085	3,236,167
	Days	242	215	203	148	128	118	119	107	143	153	141	171	180	234	186	172	168	212	207	225	230
Monthly Average	Gross	440,100	356,458	395,933	362,125	416,967	429,350	421,317	305,275	394,642	336,875	311,175	488,300	345,755	423,980	307,418	240,779	264,175	478,204	366,743	403,356	279,692
	Net	295,967	271,196	342,969	318,268	377,446	395,323	392,673	280,269	370,497	301,103	278,685	462,517	322,322	403,882	287,990	224,121	248,761	464,174	356,780	393,007	269,681
	Days	20	18	17	12	11	10	10	9	12	13	12	14	15	20	16	14	14	18	17	19	19
Precipitation Inches ⁽⁴⁾		36.33	29.56	31.05	32.03	36.33	35.99	38.66	24.02	36.45	37.85	34.54	40.26	31.87	40.66	35.12	24.99	23.33	41.36	34.93	35.81	24.46

Notes:

- (1) - Gross: Total volume of leachate treated in gallons; treatment at LCTF includes leachate collected from 102nd Street Landfill Site.
(2) - Net: Love Canal leachate treated in gallons; net is equal to the total (gross) leachate treated less leachate received from 102nd Street.
(3) - Days: Number of days treatment facility discharged to the sanitary sewer.
(4) - Precipitation data obtained from the National Climatic Data Center for Niagara Falls International Airport.

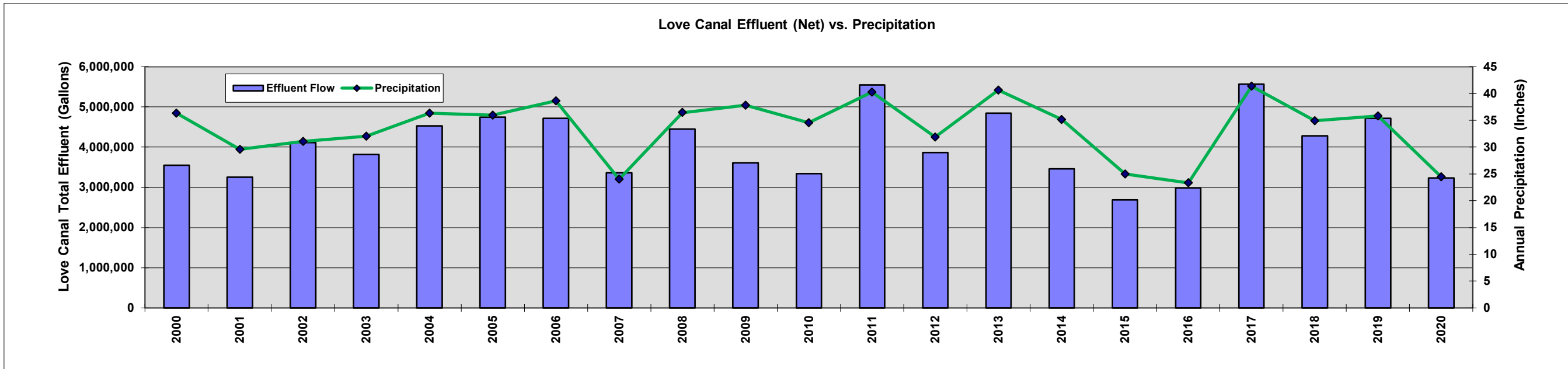


Table 3.2
2020 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:		7115	7125	7130	7132	8106	8115	8125	9105	9113	9118	9118	10135	10135	10178A	10178B
Sample ID:		WG-9954-062420-SG-001	WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010	WG-9954-070120-SG-027	WG-9954-070120-SG-028	WG-9954-070720-SG-031	WG-9954-071020-SG-036
Sample Date:		6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/26/2020	6/24/2020	6/24/2020	6/24/2020	6/25/2020	6/25/2020	6/25/2020 (Duplicate)	7/1/2020	7/1/2020 (Duplicate)	7/7/2020	7/10/2020
Parameters	Units															
Semi-volatile Organic Compounds (Continued)																
Diethyl phthalate	µg/L	0.98 U	0.98 UJ	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Dimethyl phthalate	µg/L	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Di-n-butylphthalate (DBP)	µg/L	1.9 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Di-n-octyl phthalate (DnOP)	µg/L	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Fluoranthene	µg/L	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Fluorene	µg/L	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Hexachlorobenzene	µg/L	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Hexachlorobutadiene	µg/L	0.91 U	0.91 UJ	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.0 J	0.91 U	0.91 U
Hexachlorocyclopentadiene	µg/L	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	µg/L	0.96 U	0.96 UJ	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
Indeno(1,2,3-cd)pyrene	µg/L	1.6 U	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Isophorone	µg/L	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	R	1.3 UJ	1.3 U	1.3 U	1.3 U
Naphthalene	µg/L	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Nitrobenzene	µg/L	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
N-Nitrosodi-n-propylamine	µg/L	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
N-Nitrosodiphenylamine	µg/L	2.4 U	2.4 UJ	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Pentachlorophenol	µg/L	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U
Phenanthrene	µg/L	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Phenol	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	40	44	0.91 U	0.91 U
Pyrene	µg/L	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Discrete Compounds Detected:		1	0	0	0	0	0	0	0	0	0	0	16	16	0	1
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1221 (PCB-1221)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1232 (PCB-1232)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1242 (PCB-1242)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1248 (PCB-1248)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1254 (PCB-1254)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1260 (PCB-1260)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides																
4,4'-DDD	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
4,4'-DDE	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
4,4'-DDT	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Aldrin	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	1.0 J	0.85	0.019 U	0.019 U
alpha-BHC	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	27	25	0.019 U	0.069
alpha-Chlordane	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
beta-BHC	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	6.8 J	6.9	0.019 U	0.019 U
delta-BHC	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	9.2	8.7	0.019 U	0.021 J
Dieldrin	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Endosulfan I	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Endosulfan II	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Endosulfan sulfate	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Endrin	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Endrin ketone	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
gamma-BHC (lindane)	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	6.5	6.2	0.019 U	0.058
gamma-Chlordane	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Heptachlor	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Heptachlor epoxide	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.019 U
Methoxychlor	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.19 U	0.19 U	0.019 U	0.041 J
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	4.6 U	4.6 U	0.46 U	0.46 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0	0	0	5	5	0	4

Notes:
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected

Table 3.3
2020 Analytical Results Summary - Bedrock
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:	3257	5221	6209	7205	8210	9205	9210	10205	10210A	10210B	10210C	10210C
Sample ID:	WG-9954-062820-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062620-RM-014	WG-9954-062620-RM-015	WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-062520-SG-013	WG-9954-070920-SG-033	WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021
Sample Date:	6/26/2020	7/1/2020	6/25/2020	6/26/2020	6/26/2020	6/26/2020	6/25/2020	6/25/2020	7/9/2020	6/30/2020	6/30/2020	6/30/2020
Parameters	Units											(Duplicate)
Volatile Organic Compounds												
1,1,1-Trichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1,2,2-Tetrachloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1,2-Trichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
2-Hexanone	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.20 U	0.20 U	0.20 U	2.4 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Acetone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromodichloromethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromoform	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Bromomethane (Methyl bromide)	µg/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U
Carbon disulfide	µg/L	1.2 J	0.42 U	2.0 J	4.0 J	2.7 J	1.9 J	2.6 J	5.4 J	9.2 J	4.3 J	3.1 J
Carbon tetrachloride	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chlorobenzene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroform (Trichloromethane)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane (Methyl chloride)	µg/L	0.28 U	0.28 U	0.28 U	0.30 J	0.35 J	0.28 U	0.30 J	0.28 U	0.28 U	0.28 U	0.28 U
cis-1,2-Dichloroethene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
cis-1,3-Dichloropropene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Dibromochloromethane	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Methylene chloride	µg/L	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Styrene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachloroethene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Toluene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Trichloroethene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl acetate	µg/L	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Discrete Compounds Detected:	1	0	1	3	2	1	2	1	1	1	1	1
Semi-volatile Organic Compounds												
1,2,4-Trichlorobenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,2-Dichlorobenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,3-Dichlorobenzene	µg/L	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
1,4-Dichlorobenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,4,5-Trichlorophenol	µg/L	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
2,4,6-Trichlorophenol	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,4-Dichlorophenol	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,4-Dimethylphenol	µg/L	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 UJ	1.3 UJ	1.3 UJ	1.3 U	1.3 U	1.3 U
2,4-Dinitrophenol	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
2,4-Dinitrotoluene	µg/L	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,6-Dinitrotoluene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Chloronaphthalene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2-Chlorophenol	µg/L	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
2-Methylnaphthalene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Methylphenol	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
2-Nitroaniline	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2-Nitrophenol	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
3&4-Methylphenol	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
3-Nitroaniline	µg/L	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
4,6-Dinitro-2-methylphenol	µg/L	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U
4-Bromophenyl phenyl ether	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
4-Chloro-3-methylphenol	µg/L	0.98 U	0.98 U	0.98 UJ	0.98 U	0.98 U	0.98 UJ	0.98 UJ	0.98 U	0.98 U	0.98 U	0.98 U
4-Chloroaniline	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
4-Chlorophenyl phenyl ether	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
4-Nitroaniline	µg/L	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U
4-Nitrophenol	µg/L	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Acenaphthene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Acenaphthylene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Anthracene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Benzo(a)anthracene	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(a)pyrene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Benzo(b)fluoranthene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Benzo(g,h,i)perylene	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Benzo(k)fluoranthene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Benzoic acid	µg/L	33 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U
Benzyl alcohol	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
bis(2-Chloroethoxy)methane	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
bis(2-Chloroethyl)ether	µg/L	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.91 U	0.91 U	0.91 U	2.2 J	0.91 U	0.91 U	0.91 U	3.7 J	3.9 J	0.91 U	0.91 U
Butyl benzylphthalate (BBP)	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chrysene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Dibenz(a,h)anthracene	µg/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Dibenzofuran	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Diethyl phthalate	µg/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Dimethyl phthalate	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Di-n-butylphthalate (DBP)	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.3 J	1.9 U	1.9 U	1.9 U
Di-n-octyl phthalate (DnOP)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Table 3.3
2020 Analytical Results Summary - Bedrock
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:		3257	5221	6209	7205	8210	9205	9210	10205	10210A	10210B	10210C	10210C
Sample ID:		WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062620-RM-014	WG-9954-062620-RM-015	WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-062520-SG-013	WG-9954-070920-SG-033	WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021
Sample Date:		6/26/2020	7/1/2020	6/25/2020	6/26/2020	6/26/2020	6/26/2020	6/25/2020	6/25/2020	7/9/2020	6/30/2020	6/30/2020	6/30/2020
Parameters	Units												(Duplicate)
Semi-volatile Organic Compounds (Continued)													
Fluoranthene	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Fluorene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Hexachlorobenzene	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Hexachlorobutadiene	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Hexachlorocyclopentadiene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	µg/L	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
Indeno(1,2,3-cd)pyrene	µg/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Isophorone	µg/L	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 U
Naphthalene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Nitrobenzene	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
N-Nitrosodi-n-propylamine	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
N-Nitrosodiphenylamine	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Pentachlorophenol	µg/L	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U
Phenanthrene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Phenol	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Pyrene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Discrete Compounds Detected:		0	0	0	1	0	0	0	1	2	0	0	0
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1221 (PCB-1221)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1232 (PCB-1232)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1242 (PCB-1242)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1248 (PCB-1248)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1254 (PCB-1254)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1260 (PCB-1260)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0	0	0	0
Pesticides													
4,4'-DDD	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
4,4'-DDE	µg/L	0.029 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
4,4'-DDT	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aldrin	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 J	0.019 U	0.019 U	0.019 U	0.019 U
alpha-BHC	µg/L	R	0.13	0.31	0.088	0.064	0.097	0.033 J	0.18	0.12	0.12	0.081	0.10
Pesticides (Continued)													
alpha-Chlordane	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
beta-BHC	µg/L	0.045 J	0.019 U	0.019 U	0.036 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
delta-BHC	µg/L	R	0.029 J	0.13	0.32	0.042 J	0.10	0.068	0.28	0.088	0.076	0.068 J	0.12 J
Dieldrin	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endosulfan I	µg/L	0.037 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endosulfan II	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endosulfan sulfate	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endrin	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endrin ketone	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
gamma-BHC (lindane)	µg/L	0.026 J	0.076	0.25	0.11	0.060	0.096	0.037 J	0.21	0.15	0.10	0.089	0.11
gamma-Chlordane	µg/L	0.020 NJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.028 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Heptachlor	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Heptachlor epoxide	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Methoxychlor	µg/L	R	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U
Toxaphene	µg/L	R	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Discrete Compounds Detected:		5	3	3	4	3	3	4	4	3	3	3	3

Table 3.3

2020 Analytical Results Summary - Bedrock
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:		10215	10225A	10225B	10225C	10270	10272	10278	MW-01	MW-02
Sample ID:		WG-9954-063020-SG-022	WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
Sample Date:		6/30/2020	7/9/2020	7/9/2020	7/1/2020	7/7/2020	7/7/2020	7/7/2020	6/30/2020	7/1/2020
Parameters	Units									
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1,2,2-Tetrachloroethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1,2-Trichloroethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	0.78 U	3.9 U	3.9 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
2-Hexanone	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Acetone	µg/L	5.0 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromodichloromethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromoform	µg/L	0.25 U	1.3 U	1.3 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Bromomethane (Methyl bromide)	µg/L	0.70 U	3.5 U	3.5 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U
Carbon disulfide	µg/L	3.5 J	160	25 J	3.3 J	3.7 J	3.4 J	6.4 J	2.9 J	0.42 U
Carbon tetrachloride	µg/L	0.34 U	1.7 U	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chlorobenzene	µg/L	0.20 U	1.0 U	1.0 U	0.89 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroethane	µg/L	0.23 U	1.2 U	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroform (Trichloromethane)	µg/L	0.24 U	1.2 U	1.2 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane (Methyl chloride)	µg/L	0.28 U	1.4 U	1.4 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
cis-1,2-Dichloroethene	µg/L	0.23 U	1.2 U	1.2 U	3.3 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
cis-1,3-Dichloropropene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Dibromochloromethane	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Methylene chloride	µg/L	0.65 U	3.3 U	3.3 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Styrene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachloroethene	µg/L	0.21 U	1.1 U	1.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Toluene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	µg/L	0.23 U	1.2 U	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Trichloroethene	µg/L	0.20 U	1.0 U	1.0 U	6.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl acetate	µg/L	1.1 U	5.5 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Vinyl chloride	µg/L	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.23 U	1.2 U	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Discrete Compounds Detected:		1	1	1	4	1	1	1	1	0
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	µg/L	1.1 U	1.1 U	1.1 U	7.7 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,2-Dichlorobenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,3-Dichlorobenzene	µg/L	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
1,4-Dichlorobenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,4,5-Trichlorophenol	µg/L	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
2,4,6-Trichlorophenol	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,4-Dichlorophenol	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,4-Dimethylphenol	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,4-Dinitrophenol	µg/L	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
2,4-Dinitrotoluene	µg/L	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2,6-Dinitrotoluene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Chloronaphthalene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2-Chlorophenol	µg/L	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
2-Methylnaphthalene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Methylphenol	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
2-Nitroaniline	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2-Nitrophenol	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
3&4-Methylphenol	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
3-Nitroaniline	µg/L	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
4,6-Dinitro-2-methylphenol	µg/L	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U
4-Bromophenyl phenyl ether	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
4-Chloro-3-methylphenol	µg/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
4-Chloroaniline	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
4-Chlorophenyl phenyl ether	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
4-Nitroaniline	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Nitrophenol	µg/L	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Acenaphthene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Acenaphthylene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Anthracene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Benzo(a)anthracene	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(a)pyrene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Benzo(b)fluoranthene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Benzo(g,h,i)perylene	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Benzo(k)fluoranthene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Benzoic acid	µg/L	33 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U	33 U
Benzyl alcohol	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
bis(2-Chloroethoxy)methane	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
bis(2-Chloroethyl)ether	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Butyl benzylphthalate (BBP)	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chrysene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Dibenz(a,h)anthracene	µg/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Dibenzofuran	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Diethyl phthalate	µg/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Dimethyl phthalate	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Di-n-butylphthalate (DBP)	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Di-n-octyl phthalate (DnOP)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Table 3.3

2020 Analytical Results Summary - Bedrock
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:		10215	10225A	10225B	10225C	10270	10272	10278	MW-01	MW-02
Sample ID:		WG-9954-063020-SG-022	WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
Sample Date:		6/30/2020	7/9/2020	7/9/2020	7/1/2020	7/7/2020	7/7/2020	7/6/2020	6/30/2020	7/1/2020
Parameters	Units									
Semi-volatile Organic Compounds (Continued)										
Fluoranthene	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Fluorene	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Hexachlorobenzene	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Hexachlorobutadiene	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Hexachlorocyclopentadiene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	R	2.0 U	2.0 U	2.0 U
Hexachloroethane	µg/L	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
Indeno(1,2,3-cd)pyrene	µg/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Isophorone	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Naphthalene	µg/L	1.1 U	1.2 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Nitrobenzene	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
N-Nitrosodi-n-propylamine	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
N-Nitrosodiphenylamine	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Pentachlorophenol	µg/L	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U
Phenanthrene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Phenol	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Pyrene	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Discrete Compounds Detected:		0	1	0	1	0	0	0	0	0
Polychlorinated Biphenyls										
Aroclor-1016 (PCB-1016)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1221 (PCB-1221)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1232 (PCB-1232)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1242 (PCB-1242)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1248 (PCB-1248)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1254 (PCB-1254)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Aroclor-1260 (PCB-1260)	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0
Pesticides										
4,4'-DDD	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
4,4'-DDE	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
4,4'-DDT	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Aldrin	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
alpha-BHC	µg/L	0.064	0.069	0.072	0.27	0.070	0.24	0.47	0.019 U	0.019 U
Pesticides (Continued)										
alpha-Chlordane	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
beta-BHC	µg/L	0.027 J	0.019 U	0.019 J	0.040 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
delta-BHC	µg/L	0.29	0.065	0.19	0.17	0.067	0.084	0.13	0.019 U	0.019 U
Dieldrin	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endosulfan I	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endosulfan II	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endosulfan sulfate	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endrin	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Endrin ketone	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
gamma-BHC (lindane)	µg/L	0.074	0.077	0.11	0.21	0.098	0.26	0.48	0.019 U	0.019 U
gamma-Chlordane	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Heptachlor	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Heptachlor epoxide	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Methoxychlor	µg/L	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Discrete Compounds Detected:		4	3	4	4	3	3	3	0	0

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- R - Rejected
- NJ - Tentatively identified compound, estimated concentration

Table 3.4

2020 Detection Summary -
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

			Number of Discrete Compounds Detected			
Overburden Wells (without well 10135)		Well Group	VOCs	SVOCs	PCBs	Pesticides
7115		B	0	1	0	0
7125		B	0	0	0	0
7130		A	0	0	0	0
7132		A	1	0	0	0
8106		A	1	0	0	0
8115		B	0	0	0	0
8125		B	0	0	0	0
9105		B	0	0	0	0
9113		B	2	0	0	0
9118		B	2 (1)	0	0	0
10178A		B	0	0	0	0
10178B		***	0	1	0	4
Total Overburden Well Detections			6 (5)	2	0	4
Number of Discrete Compounds Detected			3	1	0	4
Well 10135		Well Group	VOCs	SVOCs	PCBs	Pesticides
10135		A	17 (19)	16	0	5
Total Well 10135 Well Detections			17 (19)	16	0	5
Number of Discrete Compounds Detected			17 (19)	16	0	5
Bedrock Wells		Well Group	VOCs	SVOCs	PCBs	Pesticides
3257		A	1	0	0	5*
5221		A	0	0	0	3
6209		A	1	0	0	3
7205		A	3	1	0	4
8210		A	2	0	0	3
9205		A	1	0	0	3
9210		A	2	0	0	4
10205		A	1	1	0	4
10210A		A	1	2	0	3
10210B		A	1	0	0	3
10210C		A	1	0	0	3
10215		A	1	0	0	4
10225A		A	1	1	0	3
10225B		A	1	0	0	4
10225C		A	4	1	0	4
10270		A	1	0	0	3
10272		A	1	0	0	3
10278		A	1	0	0	3
MW-01		X	1	0	0	0
MW-02		X	0	0	0	0
Total Bedrock Well Detections			25	6	0	62
Number of Discrete Compounds Detected			6	4	0	8
Notes:						
* - A portion of the data was rejected during data validation; rejected data is not included in total. Rejected results were non-detect.						
A - Annual Well						
B - Biannual Well						
X - Additional annual well added to program in 2011						
*** - Well requested to be sampled in 2020 by NYSDEC						
() - Results for duplicate sample, if different from parent sample						
PCBs - Polychlorinated Biphenyls						
SVOCs - Semi-Volatile Organic Compounds						
VOCs - Volatile Organic Compounds						

Table 3.5

Summary of Detected Compounds in Select Wells

	Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A
	SampleDate:	7/24/1990	8/22/1991	8/26/1992	8/11/1993	5/25/1995	7/1/1996	7/10/1997	6/26/1998	6/23/1999	6/21/2000	5/18/2001	6/13/2002	5/27/2003	6/3/2004	6/28/2005	7/6/2006
Parameters																	
Volatile Organic Compounds (µg/L)																	
1,1,1-Trichloroethane																	
1,1,2,2-Tetrachloroethane0.2																	
1,1,2-Trichloroethane																	
1,1-Dichloroethane																	
1,1-Dichloroethene																	
1,2-Dichloroethane																	
1,2-Dichloroethene (total)																	
1,2-Dichloropropane0.04																	
2-Butanone (Methyl Ethyl Ketone)2 J3 J4 J																	
2-Hexanone0.43 J																	
Acetone14C13B120 J10 J																	
Benzene0.1																	
Bromodichloromethane																	
Bromoform0.03																	
Bromomethane (Methyl bromide)																	
Carbon Disulfide2203106 J6 J1.6 J1 J																	
Chlorobenzene																	
Chloroform																	
Chlorotoluenes																	
cis-1,2-Dichloroethene																	
Dibromochloromethane0.08																	
Dichlorotoluene, total																	
Ethylbenzene0.6																	
m&p-Xylenes																	
Methylene Chloride0.3																	
o-Xylene																	
Styrene0.1																	
Tetrachloroethene0.07																	
Toluene0.42 J2.3 J																	
trans-1,2-Dichloroethene																	
Trichloroethene0.1																	
Trichlorotoluene, total																	
Vinyl Acetate																	
Vinyl Chloride																	
Xylenes (total)1																	
Semi-volatile Organic Compounds (µg/L)																	
1,2,4-Trichlorobenzene																	
1,2-Dichlorobenzene																	
1,3-Dichlorobenzene																	
1,4-Dichlorobenzene																	
2,4,5-Trichlorophenol																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A
SampleDate:	7/24/1990	8/22/1991	8/26/1992	8/11/1993	5/25/1995	7/1/1996	7/10/1997	6/26/1998	6/23/1999	6/21/2000	5/18/2001	6/13/2002	5/27/2003	6/3/2004	6/28/2005	7/6/2006
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol																
2,4-Dichlorophenol																
2,4-Dimethylphenol																
2-Chloronaphthalene																
2-Chlorophenol																
2-Methylnaphthalene																
2-Methylphenol																
3&4-Methylphenol																
2-Nitrophenol																
3,5-Dichlorotoluene																
4-Chloro-3-methylphenol																
4-Chlorophenyl phenyl ether																
4-Methylphenol																
Acetic acid																
Anthracene																
Benzo(a)pyrene																
Benzo(b)fluoranthene																
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene																
Benzoic Acid								12 J					3 J	3 J	2.7 J	
Benzyl Alcohol																
Bis(2-Chloroethyl)Ether																
bis(2-Ethylhexyl)Phthalate		12	21	31	51									1 J	1.7 J	8 J
Butyl benzylphthalate (BBP)				3												
Camphor																
Carbazole																
Chlorobenzoic acid																
Chrysene																
Dibenz(a,h)anthracene																
Diethyl phthalate																
Dimethyl Phthalate	16															
Dimethyl tetrasulfide				22												
Di-n-butyl phthalate (DBP)		2		0.9												
Di-n-octyl phthalate (DnOP)	3B															
Fluoranthene																
Hexachlorobenzene																
Hexachloroethane																
Indeno(1,2,3-cd)pyrene																
Naphthalene																
N-Nitrosodiphenylamine																
Pentachlorophenol																
Phenanthrene																
Phenol									1 J				5 J	1 J	1.7 J	
Pyrene																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A
	SampleDate:	7/24/1990	8/22/1991	8/26/1992	8/11/1993	5/25/1995	7/1/1996	7/10/1997	6/26/1998	6/23/1999	6/21/2000	5/18/2001	6/13/2002	5/27/2003	6/3/2004	6/28/2005	7/6/2006
Parameters																	
Pesticides/PCBs (µg/L)																	
4,4'-DDD														0.013 J			
4,4'-DDE																	
Aldrin																	
Alpha-BHC										0.28							
Alpha-Chlordane																	
Aroclor-1260 (PCB-1260)																	
beta&gamma-BHC (sum of isomers)																	
Beta-BHC										0.035 J				0.020 J	0.011 J		
Delta-BHC					0.0061									0.062 J	0.043 J		
Dieldrin																	
Endosulfan I										0.046 J							
Endosulfan II																	
Endosulfan Sulfate																	
Endrin																	
Endrin ketone																	
Gamma-BHC (Lindane)										0.10 J				0.039 J			
Gamma-Chlordane																	
Heptachlor																	
Heptachlor epoxide																	
Methoxychlor																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210B	10210B
	SampleDate:	7/26/2007	7/17/2008	7/15/2009	6/24/2010	7/19/2011	6/22/2012	6/13/2013	6/27/2014	6/26/2015	6/24/2016	7/10/2017	7/23/2018	6/14/2019	7/9/2020	7/24/1990	8/22/1991
Parameters																	
Volatile Organic Compounds (µg/L)																	
1,1,1-Trichloroethane																	
1,1,2,2-Tetrachloroethane																	
1,1,2-Trichloroethane																	
1,1-Dichloroethane																	
1,1-Dichloroethene																	
1,2-Dichloroethane																	
1,2-Dichloroethene (total)																	
1,2-Dichloropropane																	
2-Butanone (Methyl Ethyl Ketone)																	
2-Hexanone																	
Acetone					5.2 J						3.5 J	8.4 J		5.8 J			
Benzene																	
Bromodichloromethane																	
Bromoform																	
Bromomethane (Methyl bromide)											6.1						
Carbon Disulfide	8 J	24					2.7 J			2.9 J		2.0 J	340	51	9.2 J		
Chlorobenzene																	
Chloroform																	
Chlorotoluenes																	
cis-1,2-Dichloroethene																	
Dibromochloromethane																	
Dichlorotoluene, total																	
Ethylbenzene											0.28 J	0.35 J	0.22 J				
m&p-Xylenes																	
Methylene Chloride																	
o-Xylene																	
Styrene																	
Tetrachloroethene																	
Toluene																1.8	
trans-1,2-Dichloroethene																	
Trichloroethene					6.3												
Trichlorotoluene, total																	
Vinyl Acetate																	
Vinyl Chloride																	
Xylenes (total)													0.27 J	0.29 J			
Semi-volatile Organic Compounds (µg/L)																	
1,2,4-Trichlorobenzene																	
1,2-Dichlorobenzene																	
1,3-Dichlorobenzene																	
1,4-Dichlorobenzene																	
2,4,5-Trichlorophenol																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210B	10210B
SampleDate:	7/26/2007	7/17/2008	7/15/2009	6/24/2010	7/19/2011	6/22/2012	6/13/2013	6/27/2014	6/26/2015	6/24/2016	7/10/2017	7/23/2018	6/14/2019	7/9/2020	7/24/1990	8/22/1991
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol																
2,4-Dichlorophenol																
2,4-Dimethylphenol																
2-Chloronaphthalene																
2-Chlorophenol																
2-Methylnaphthalene																
2-Methylphenol																
3&4-Methylphenol																
2-Nitrophenol																
3,5-Dichlorotoluene																
4-Chloro-3-methylphenol																
4-Chlorophenyl phenyl ether																
4-Methylphenol																
Acetic acid																
Anthracene																
Benzo(a)pyrene																
Benzo(b)fluoranthene																
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene																
Benzoic Acid			5.8 J													
Benzyl Alcohol																
Bis(2-Chloroethyl)Ether																
bis(2-Ethylhexyl)Phthalate			2.5 J											3.9 J	7 B	13
Butyl benzylphthalate (BBP)																
Camphor																
Carbazole																
Chlorobenzoic acid																
Chrysene																
Dibenz(a,h)anthracene																
Diethyl phthalate																
Dimethyl Phthalate																
Dimethyl tetrasulfide																
Di-n-butyl phthalate (DBP)														2.3 J	1	1
Di-n-octyl phthalate (DnOP)																
Fluoranthene																
Hexachlorobenzene																
Hexachloroethane																
Indeno(1,2,3-cd)pyrene																
Naphthalene									0.41 J							
N-Nitrosodiphenylamine																
Pentachlorophenol															1	
Phenanthrene																
Phenol															3	3
Pyrene																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210A	10210B	10210B
	SampleDate:	7/26/2007	7/17/2008	7/15/2009	6/24/2010	7/19/2011	6/22/2012	6/13/2013	6/27/2014	6/26/2015	6/24/2016	7/10/2017	7/23/2018	6/14/2019	7/9/2020	7/24/1990	8/22/1991
Parameters																	
Pesticides/PCBs (µg/L)																	
4,4'-DDD																	
4,4'-DDE																	
Aldrin																	
Alpha-BHC																	
Alpha-Chlordane																	
Aroclor-1260 (PCB-1260)																	
beta&gamma-BHC (sum of isomers)																	
Beta-BHC																	
Delta-BHC																	
Dieldrin																	
Endosulfan I																	
Endosulfan II																	
Endosulfan Sulfate																	
Endrin																	
Endrin ketone																	
Gamma-BHC (Lindane)																	
Gamma-Chlordane																	
Heptachlor																	
Heptachlor epoxide																	
Methoxychlor																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	
	SampleDate:	8/26/1992	8/11/1993	6/15/1994	6/1/1995	7/5/1996	7/1/1997	6/18/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/2/2004	6/24/2005	6/28/2006	7/26/2007
Parameters																	
Volatile Organic Compounds (µg/L)																	
1,1,1-Trichloroethane																	
1,1,2,2-Tetrachloroethane																	
1,1,2-Trichloroethane																	
1,1-Dichloroethane																	
1,1-Dichloroethene																	
0.06																	
1,2-Dichloroethane																	
1,2-Dichloroethene (total)																	
1,2-Dichloropropane																	
2-Butanone (Methyl Ethyl Ketone)																	
4																	
23																	
2-Hexanone																	
Acetone																	
31																	
6																	
12 B																	
23																	
12 J																	
Benzene																	
0.3																	
0.3																	
Bromodichloromethane																	
Bromoform																	
Bromomethane (Methyl bromide)																	
0.2																	
Carbon Disulfide																	
2																	
0.4																	
8 J																	
2 J																	
14																	
3 J																	
2 J																	
1.4 J																	
1 J																	
6 J																	
Chlorobenzene																	
0.2																	
1 J																	
Chloroform																	
Chlorotoluenes																	
cis-1,2-Dichloroethene																	
Dibromochloromethane																	
Dichlorotoluene, total																	
Ethylbenzene																	
0.2																	
0.08																	
m&p-Xylenes																	
Methylene Chloride																	
0.4																	
0.2																	
o-Xylene																	
Styrene																	
Tetrachloroethene																	
0.06																	
9 J																	
Toluene																	
0.5																	
2 J																	
1 J																	
1.1 J																	
trans-1,2-Dichloroethene																	
Trichloroethene																	
0.1																	
0.1																	
Trichlorotoluene, total																	
Vinyl Acetate																	
Vinyl Chloride																	
Xylenes (total)																	
0.5																	
0.5																	
Semi-volatile Organic Compounds (µg/L)																	
1,2,4-Trichlorobenzene																	
3 J																	
1,2-Dichlorobenzene																	
1,3-Dichlorobenzene																	
1,4-Dichlorobenzene																	
2,4,5-Trichlorophenol																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B
SampleDate:	8/26/1992	8/11/1993	6/15/1994	6/1/1995	7/5/1996	7/1/1997	6/18/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/2/2004	6/24/2005	6/28/2006	7/26/2007
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol																
2,4-Dichlorophenol																
2,4-Dimethylphenol																
2-Chloronaphthalene																
2-Chlorophenol																
2-Methylnaphthalene			0.06													
2-Methylphenol																
3&4-Methylphenol																
2-Nitrophenol																
3,5-Dichlorotoluene																
4-Chloro-3-methylphenol																
4-Chlorophenyl phenyl ether																
4-Methylphenol			0.2													
Acetic acid																
Anthracene																
Benzo(a)pyrene			0.07													
Benzo(b)fluoranthene			0.08													
Benzo(g,h,i)perylene			0.1													
Benzo(k)fluoranthene			0.04													
Benzoic Acid															2 J	
Benzyl Alcohol																
Bis(2-Chloroethyl)Ether																
bis(2-Ethylhexyl)Phthalate		11	9			55	6 J						4 J	4.5 J	3 J	
Butyl benzylphthalate (BBP)			0.2													
Camphor																
Carbazole			0.05													
Chlorobenzoic acid																
Chrysene																
Dibenz(a,h)anthracene			0.1													
Diethyl phthalate			0.3													
Dimethyl Phthalate																
Dimethyl tetrasulfide																
Di-n-butyl phthalate (DBP)			0.6							3 J						
Di-n-octyl phthalate (DnOP)			0.1													
Fluoranthene			0.04													
Hexachlorobenzene												1 J				
Hexachloroethane																
Indeno(1,2,3-cd)pyrene			0.1													
Naphthalene																
N-Nitrosodiphenylamine			0.2													
Pentachlorophenol			0.3													
Phenanthrene			0.07													
Phenol			2													
Pyrene			0.04													

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	
	SampleDate:	8/26/1992	8/11/1993	6/15/1994	6/1/1995	7/5/1996	7/1/1997	6/18/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/2/2004	6/24/2005	6/28/2006	7/26/2007
Parameters																	
Pesticides/PCBs (µg/L)																	
4,4'-DDD																	
4,4'-DDE																	
Aldrin																	
Alpha-BHC																	
Alpha-Chlordane																	
Aroclor-1260 (PCB-1260)																	
beta&gamma-BHC (sum of isomers)																	
Beta-BHC																	
Delta-BHC																	
Dieldrin																	
Endosulfan I																	
Endosulfan II																	
Endosulfan Sulfate																	
Endrin																	
Endrin ketone																	
Gamma-BHC (Lindane)																	
Gamma-Chlordane																	
Heptachlor																	
Heptachlor epoxide																	
Methoxychlor																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210C	
	SampleDate:	7/17/2008	7/15/2009	7/15/2009	7/9/2009	6/15/2010	7/14/2011	6/18/2012	6/15/2013	6/26/2014	7/2/2015	6/28/2016	7/10/2017	7/19/2018	6/17/2019	6/30/2020	7/25/1990
Parameters																	
Volatile Organic Compounds (µg/L)																	
1,1,1-Trichloroethane																	
1,1,2,2-Tetrachloroethane																	
1,1,2-Trichloroethane																	
1,1-Dichloroethane																	
1,1-Dichloroethene																	
1,2-Dichloroethane																	
1,2-Dichloroethene (total)																	
1,2-Dichloropropane																	
2-Butanone (Methyl Ethyl Ketone)																	
2-Hexanone																	
Acetone2.6 J																	
Benzene																	
Bromodichloromethane																	
Bromoform																	
Bromomethane (Methyl bromide)																	
Carbon Disulfide4.0 J4.6 J6.1 J2.9 J7.93.4 J204.2 J4.3 J																	
Chlorobenzene																	
Chloroform																	
Chlorotoluenes																	
cis-1,2-Dichloroethene																	
Dibromochloromethane																	
Dichlorotoluene, total																	
Ethylbenzene																	
m&p-Xylenes																	
Methylene Chloride1.2 J																	
o-Xylene																	
Styrene																	
Tetrachloroethene																	
Toluene3																	
trans-1,2-Dichloroethene																	
Trichloroethene																	
Trichlorotoluene, total																	
Vinyl Acetate																	
Vinyl Chloride																	
Xylenes (total)																	
Semi-volatile Organic Compounds (µg/L)																	
1,2,4-Trichlorobenzene																	
1,2-Dichlorobenzene																	
1,3-Dichlorobenzene																	
1,4-Dichlorobenzene																	
2,4,5-Trichlorophenol																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210C
SampleDate:	7/17/2008	7/15/2009	7/15/2009	7/9/2009	6/15/2010	7/14/2011	6/18/2012	6/15/2013	6/26/2014	7/2/2015	6/28/2016	7/10/2017	7/19/2018	6/17/2019	6/30/2020	7/25/1990
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol																
2,4-Dichlorophenol																
2,4-Dimethylphenol																
2-Chloronaphthalene																
2-Chlorophenol																
2-Methylnaphthalene																
2-Methylphenol																
3&4-Methylphenol																
2-Nitrophenol																
3,5-Dichlorotoluene																
4-Chloro-3-methylphenol																
4-Chlorophenyl phenyl ether																
4-Methylphenol																
Acetic acid																
Anthracene																
Benzo(a)pyrene																
Benzo(b)fluoranthene																
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene																
Benzoic Acid																
Benzyl Alcohol																
Bis(2-Chloroethyl)Ether																
bis(2-Ethylhexyl)Phthalate																7 B
Butyl benzylphthalate (BBP)																1
Camphor																
Carbazole																
Chlorobenzoic acid																
Chrysene																
Dibenz(a,h)anthracene																
Diethyl phthalate								1.8 J								1
Dimethyl Phthalate																
Dimethyl tetrasulfide																
Di-n-butyl phthalate (DBP)																2
Di-n-octyl phthalate (DnOP)																
Fluoranthene																
Hexachlorobenzene																
Hexachloroethane																
Indeno(1,2,3-cd)pyrene																
Naphthalene																
N-Nitrosodiphenylamine																
Pentachlorophenol																
Phenanthrene																
Phenol																2
Pyrene																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210C
SampleDate:	7/17/2008	7/15/2009	7/15/2009	7/9/2009	6/15/2010	7/14/2011	6/18/2012	6/15/2013	6/26/2014	7/2/2015	6/28/2016	7/10/2017	7/19/2018	6/17/2019	6/30/2020	7/25/1990
Parameters																
Pesticides/PCBs (µg/L)																
4,4'-DDD																
4,4'-DDE																
Aldrin																
Alpha-BHC		0.064	0.050	0.050 / 0.064		0.048 J					0.056 J			0.054	0.12	
Alpha-Chlordane																
Aroclor-1260 (PCB-1260)																
beta&gamma-BHC (sum of isomers)																
Beta-BHC																
Delta-BHC		0.032 J	0.028 J	0.028 J / 0.032 J	0.050 J	0.042 J					0.17 J				0.076	
Dieldrin																
Endosulfan I																
Endosulfan II																
Endosulfan Sulfate																
Endrin																
Endrin ketone																
Gamma-BHC (Lindane)		0.038 J	0.033 J	0.038 J / 0.033 J		0.061 J					0.084			0.055	0.10	
Gamma-Chlordane																
Heptachlor						0.053 J										
Heptachlor epoxide																
Methoxychlor																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C
	SampleDate:	8/22/1991	8/26/1992	8/11/1993	6/8/1994	6/1/1995	7/1/1996	7/1/1997	6/22/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/7/2004	6/23/2005	6/28/2006
Parameters																	
Volatile Organic Compounds (µg/L)																	
1,1,1-Trichloroethane																	
1,1,2,2-Tetrachloroethane																	
1,1,2-Trichloroethane																	
1,1-Dichloroethane																	
1,1-Dichloroethene																	
1,2-Dichloroethane																	
1,2-Dichloroethene (total)																	
1,2-Dichloropropane																	
2-Butanone (Methyl Ethyl Ketone)																	
2-Hexanone																	
Acetone			10 B			19 B				2100		8 J		9 J			1.9 J
Benzene																	
Bromodichloromethane																	
Bromoform																	
Bromomethane (Methyl bromide)																	
Carbon Disulfide						0.6						3 J					
Chlorobenzene																	2 J
Chloroform																	
Chlorotoluenes																	
cis-1,2-Dichloroethene																	
Dibromochloromethane																	
Dichlorotoluene, total																	
Ethylbenzene																	
m&p-Xylenes																	
Methylene Chloride						0.2											
o-Xylene																	
Styrene																	
Tetrachloroethene																	
Toluene															29 / 23		
trans-1,2-Dichloroethene																	
Trichloroethene																	
Trichlorotoluene, total																	
Vinyl Acetate																	
Vinyl Chloride																	
Xylenes (total)																	
Semi-volatile Organic Compounds (µg/L)																	
1,2,4-Trichlorobenzene																	
1,2-Dichlorobenzene																	
1,3-Dichlorobenzene																	
1,4-Dichlorobenzene																	
2,4,5-Trichlorophenol																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C
SampleDate:	8/22/1991	8/26/1992	8/11/1993	6/8/1994	6/1/1995	7/1/1996	7/1/1997	6/22/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/7/2004	6/23/2005	6/28/2006
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol																
2,4-Dichlorophenol																
2,4-Dimethylphenol																
2-Chloronaphthalene																
2-Chlorophenol																
2-Methylnaphthalene																
2-Methylphenol				5												
3&4-Methylphenol																
2-Nitrophenol																
3,5-Dichlorotoluene																
4-Chloro-3-methylphenol																
4-Chlorophenyl phenyl ether																
4-Methylphenol				6	29	110	62	0.6J								
Acetic acid			11													
Anthracene																
Benzo(a)pyrene																
Benzo(b)fluoranthene																
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene																
Benzoic Acid																
Benzyl Alcohol																
Bis(2-Chloroethyl)Ether																
bis(2-Ethylhexyl)Phthalate	13			8										29 / 5 J		5 J
Butyl benzylphthalate (BBP)				0.4												
Camphor																
Carbazole																
Chlorobenzoic acid																
Chrysene																
Dibenz(a,h)anthracene																
Diethyl phthalate				0.2												
Dimethyl Phthalate																
Dimethyl tetrasulfide																
Di-n-butyl phthalate (DBP)	3			0.5												
Di-n-octyl phthalate (DnOP)				0.04												
Fluoranthene																
Hexachlorobenzene																
Hexachloroethane	1															
Indeno(1,2,3-cd)pyrene																
Naphthalene																
N-Nitrosodiphenylamine																
Pentachlorophenol																
Phenanthrene				0.03												
Phenol	6				22		22									
Pyrene																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	
	SampleDate:	8/22/1991	8/26/1992	8/11/1993	6/8/1994	6/1/1995	7/1/1996	7/1/1997	6/22/1998	6/24/1999	6/15/2000	5/17/2001	6/10/2002	5/23/2003	6/7/2004	6/23/2005	6/28/2006
Parameters																	
Pesticides/PCBs (µg/L)																	
4,4'-DDD																	
4,4'-DDE																	
Aldrin																	
Alpha-BHC																	
Alpha-Chlordane																	
Aroclor-1260 (PCB-1260)																	
beta&gamma-BHC (sum of isomers)																	
Beta-BHC																	
Delta-BHC																	
Dieldrin																	
Endosulfan I																	
Endosulfan II																	
Endosulfan Sulfate																	
Endrin																	
Endrin ketone																	
Gamma-BHC (Lindane)																	
Gamma-Chlordane																	
Heptachlor																	
Heptachlor epoxide																	
Methoxychlor																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10135	10135								
	SampleDate:	7/26/2007	7/16/2008	7/13/2009	6/15/2010	7/14/2011	6/22/2012	6/15/2013	6/26/2014	7/2/2015	6/28/2016	7/10/2017	7/19/2018	6/17/2019	6/30/2020	9/13/1990	8/29/1991								
Parameters																									
Volatile Organic Compounds (µg/L)																									
1,1,1-Trichloroethane																									
1,1,2,2-Tetrachloroethane																									
1,1,2-Trichloroethane																									
1,1-Dichloroethane																									
1,1-Dichloroethene																		6							
1,2-Dichloroethane																									
1,2-Dichloroethene (total)																									
1,2-Dichloropropane																									
2-Butanone (Methyl Ethyl Ketone)																									
2-Hexanone																									
Acetone																		4.3 J	50						
Benzene																		6200	6700						
Bromodichloromethane																									
Bromoform																									
Bromomethane (Methyl bromide)																									
Carbon Disulfide																		2 J	U/1.4 J	0.77 J	6.3 J	2.6 J	4.2 J		
Chlorobenzene																			2380	2400					
Chloroform																									
Chlorotoluenes																			16600	16000					
cis-1,2-Dichloroethene																									
Dibromochloromethane																									
Dichlorotoluene, total																			14000	140					
Ethylbenzene																			12	10					
m&p-Xylenes																									
Methylene Chloride																			5						
o-Xylene																									
Styrene																									
Tetrachloroethene																			50						
Toluene																			22800	26000					
trans-1,2-Dichloroethene																			20						
Trichloroethene																			260	450					
Trichlorotoluene, total																			40						
Vinyl Acetate																									
Vinyl Chloride																									
Xylenes (total)																			50	30					
Semi-volatile Organic Compounds (µg/L)																									
1,2,4-Trichlorobenzene																			80	290					
1,2-Dichlorobenzene																			50	16					
1,3-Dichlorobenzene																									
1,4-Dichlorobenzene																			120	47					
2,4,5-Trichlorophenol																			860	130					

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10135	10135
SampleDate:	7/26/2007	7/16/2008	7/13/2009	6/15/2010	7/14/2011	6/22/2012	6/15/2013	6/26/2014	7/2/2015	6/28/2016	7/10/2017	7/19/2018	6/17/2019	6/30/2020	9/13/1990	8/29/1991
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol																120
2,4-Dichlorophenol															830	
2,4-Dimethylphenol																
2-Chloronaphthalene																
2-Chlorophenol																
2-Methylnaphthalene																
2-Methylphenol																
3&4-Methylphenol																
2-Nitrophenol																
3,5-Dichlorotoluene																
4-Chloro-3-methylphenol																13
4-Chlorophenyl phenyl ether																
4-Methylphenol																10
Acetic acid																
Anthracene																
Benzo(a)pyrene																
Benzo(b)fluoranthene																
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene																
Benzoic Acid															140000	580
Benzyl Alcohol															4200	1100
Bis(2-Chloroethyl)Ether																
bis(2-Ethylhexyl)Phthalate																
Butyl benzylphthalate (BBP)																
Camphor																
Carbazole																
Chlorobenzoic acid															4000	
Chrysene																
Dibenz(a,h)anthracene																
Diethyl phthalate						4.4 J										
Dimethyl Phthalate						0.87 J										
Dimethyl tetrasulfide																
Di-n-butyl phthalate (DBP)																
Di-n-octyl phthalate (DnOP)																
Fluoranthene																
Hexachlorobenzene																
Hexachloroethane																
Indeno(1,2,3-cd)pyrene																
Naphthalene																
N-Nitrosodiphenylamine																
Pentachlorophenol																
Phenanthrene																
Phenol															1.7 J	10
Pyrene																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10135	10135
	SampleDate:	7/26/2007	7/16/2008	7/13/2009	6/15/2010	7/14/2011	6/22/2012	6/15/2013	6/26/2014	7/2/2015	6/28/2016	7/10/2017	7/19/2018	6/17/2019	6/30/2020	9/13/1990	8/29/1991
Parameters																	
Pesticides/PCBs (µg/L)																	
4,4'-DDD																	
4,4'-DDE																	
Aldrin																	
Alpha-BHC																	
Alpha-Chlordane																	
Aroclor-1260 (PCB-1260)																	
beta&gamma-BHC (sum of isomers)																	
Beta-BHC																	
Delta-BHC																	
Dieldrin																	
Endosulfan I																	
Endosulfan II																	
Endosulfan Sulfate																	
Endrin																	
Endrin ketone																	
Gamma-BHC (Lindane)																	
Gamma-Chlordane																	
Heptachlor																	
Heptachlor epoxide																	
Methoxychlor																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	8/26/1992	8/19/1993	6/22/1994	6/1/1995	6/27/1996	7/7/1997	6/17/1998	6/16/1999	6/22/2000	5/11/2001	6/12/2002	5/19/2003	5/28/2004	6/17/2005	6/28/2005	6/26/2006
Parameters																
Volatile Organic Compounds (µg/L)																
1,1,1-Trichloroethane		8	14													
1,1,2,2-Tetrachloroethane		12	51		26		94 J	29 / 32	27 J / 26 J	120 J / 100 J	56	38				
1,1,2-Trichloroethane					14		29 J	15 / 12	16 J / 14 J	29 J / 34 J	27					
1,1-Dichloroethane																
1,1-Dichloroethene		15	3					4 J / 3 J	4 J / 4 J	4 J / 4 J	4 J	3 J				
1,2-Dichloroethane																
1,2-Dichloroethene (total)	700	840	650	670 JD	560						600 J / 560	490 J				
1,2-Dichloropropane																
2-Butanone (Methyl Ethyl Ketone)		36							10 J	11 J / 12 J						
2-Hexanone																
Acetone		270	100 B	100 J	60		110 J		28 J / 46 J		72	74				200 J
Benzene		5200	6000 E	4900 D	4800	5000 / 5600	5300 J	5700 / 5600	6900 J / 6400 D	8500 J / 7600	5900 / 6400	5500		5400	5700	6800
Bromodichloromethane																
Bromoform																
Bromomethane (Methyl bromide)																
Carbon Disulfide								2 J								
Chlorobenzene	2600	1700 E	2900 E	2000 D	1500	2300 / ND	1900 J	1900 / 1800	2300 J / 2300 J	3000 J / 2700 J	2200 / 2400	1900		2000	2100	2400
Chloroform		100	120	86 J	110		150 J	110 / 120	130 J / 100 J	160 J / 150 J	160	110				110 J
Chlorotoluenes																
cis-1,2-Dichloroethene																630
Dibromochloromethane																
Dichlorotoluene, total																
Ethylbenzene		13	12				12	9 J / 10 J	12 J / 12 J	24 J / 22 J	15	10				
m&p-Xylenes											39	29				
Methylene Chloride		41	8		11				24 J / 24 J		39	26			100 J	44 J
o-Xylene											12	9 J				
Styrene		4														
Tetrachloroethene		8	32				40 J	13 / 12	16 J / 14 J	50 J / 61 J	38	18				
Toluene	2700	17000	21500	18000 D	14000	19000 / 17000	16000 J	16000 / 17000	10000 D / 21000	24000 / 22000	20000 j / 19000	15000		16000	18000	21000
trans-1,2-Dichloroethene							58 J	67 / 70	67 J / 70 J	59 J / 60 J						52 J
Trichloroethene		24	140	18 J	36		170 J	58 / 70	60 J / 72 J	180 J / 140 J	160 / 130 J	91				46 J
Trichlorotoluene, total																
Vinyl Acetate	6800															
Vinyl Chloride			61	44 J	50		48 J	62 / 61	110 J / 85 J	66 J / 75 J	48	51				
Xylenes (total)		47	10 B	37 J	28		55 J	44 / 43	42 J / 44 J							
Semi-volatile Organic Compounds (µg/L)																
1,2,4-Trichlorobenzene		74	87 B				78 J	45 J / 65 J	45 J / 36 J	65 J / 42 J		97 J		67 J		63
1,2-Dichlorobenzene		35	34					24 J / 30 J	18 J / 22 J	48 J		59 J		36 J		37
1,3-Dichlorobenzene			4													3 J
1,4-Dichlorobenzene	110	94	91					61 J / 74 J	59 J / 52 J	110 J / 69 J		160 J		100 J	110 J	100
2,4,5-Trichlorophenol		70	59				38 J		0.9 J							8 J

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	8/26/1992	8/19/1993	6/22/1994	6/1/1995	6/27/1996	7/7/1997	6/17/1998	6/16/1999	6/22/2000	5/11/2001	6/12/2002	5/19/2003	5/28/2004	6/17/2005	6/28/2005	6/26/2006
Parameters																
Semi-volatile Organic Compounds (µg/L) (Continued)																
2,4,6-Trichlorophenol			8						1 J							
2,4-Dichlorophenol	1200B	420	610	150		2100 / 2100	2000	690 / 610	1400 J / 470 J	620 J / 1200 J	1800 J / 1500 J	1700		420	300 J	250
2,4-Dimethylphenol			9						2 J							
2-Chloronaphthalene				150						370 J / 550 J						
2-Chlorophenol			20				28 J	25 J								18
2-Methylnaphthalene																
2-Methylphenol		51	46				55 J	42 J / 35 J	160 J	41 J		50 J		25 J		33
3&4-Methylphenol																
2-Nitrophenol									1 J							
3,5-Dichlorotoluene		350														
4-Chloro-3-methylphenol			31					25 J / 33 J				41 J				15
4-Chlorophenyl phenyl ether			2													
4-Methylphenol		60	64				130 J	95 J / 120	99 J / 300 J	130 J / 86 J		210 J		49 J	98 J	110
Acetic acid																
Anthracene			1													
Benzo(a)pyrene																
Benzo(b)fluoranthene																
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene																
Benzoic Acid				6400 D	4000	7000 J / 30000 J	23000 J	4300 / 5000	4700 J / 19000 J	6200 J / 4400 J	31000 / 25000	26000		1400 J	4700 J	14000 J
Benzyl Alcohol				380		1900 / 1600	2700	680 / 540	14000 D / 3200 J	330 J / 630 J	2000 / 1700 J	640		23 J		48
Bis(2-Chloroethyl)Ether		23					24 J	26 J / 25 J						24 J		24
bis(2-Ethylhexyl)Phthalate		50	2						41 J / 24 J							53
Butyl benzylphthalate (BBP)																
Camphor		130														
Carbazole																
Chlorobenzoic acid																
Chrysene			0.2													
Dibenz(a,h)anthracene																
Diethyl phthalate			1													
Dimethyl Phthalate																
Dimethyl tetrasulfide																
Di-n-butyl phthalate (DBP)																
Di-n-octyl phthalate (DnOP)																
Fluoranthene			0.2													
Hexachlorobenzene																
Hexachloroethane																
Indeno(1,2,3-cd)pyrene																
Naphthalene								1400 J / 2000 J	4000 J / 1800 J	1400 / 1100				1800 J	4500 J	
N-Nitrosodiphenylamine																
Pentachlorophenol		52	4													
Phenanthrene																
Phenol		98	91	140				120 / 96 J		51 J		180 J			100 J	140
Pyrene																

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	
	SampleDate:	8/26/1992	8/19/1993	6/22/1994	6/1/1995	6/27/1996	7/7/1997	6/17/1998	6/16/1999	6/22/2000	5/11/2001	6/12/2002	5/19/2003	5/28/2004	6/17/2005	6/28/2005	6/26/2006
Parameters																	
Pesticides/PCBs (µg/L)																	
4,4'-DDD									0.21 / 0.20 J	0.13 J / 0.071 J					0.19 J	0.11 J	
4,4'-DDE				0.071													
Aldrin		0.53	0.24 P						0.21 J / 0.74 JN		1.5 JN / 0.95 JN	0.12 J / 0.12 J					
Alpha-BHC		84	42 C	24 CEP	28 D	29	39 / 39	59	40 / 37 J	50 / 50	43 J / 50 J	43 / 39	49		15	21 C	35
Alpha-Chlordane												0.031 J / 0.017 J					
Aroclor-1260 (PCB-1260)																	
beta&gamma-BHC (sum of isomers)			19.5	20.4													
Beta-BHC					10 D	11	8.1 / 8.6	12	12 / 11 J	15 / 16	16 J / 16 J	14 J / 13 J	15 J		3.4	5.6	7.1
Delta-BHC		15	9.8	7.5 CE	4.7	5.2	5.1 / ND	8.9	11 / 9.6 J	13 / 14	10 J / 12 J	9.0 J / 11 J	12		9.1	9.1	13
Dieldrin																	
Endosulfan I									0.34 J / 0.43 J		1.5 JN / 1.6 JN						
Endosulfan II										0.52 J / 0.69 J					0.15 J		
Endosulfan Sulfate			0.43 P						0.18 / 0.17 J	0.17 J			1.3 J				
Endrin				0.15 P													
Endrin ketone																	
Gamma-BHC (Lindane)		33				2.4 J	6.2 J / 5.1 J	6.5 J	5.5 / 4.1 J	6.4 / 8.0	7.3 J / 5.0 J	7.1 J / 6.1 J	7.1			0.32 J	4.8
Gamma-Chlordane										0.18 J / 0.16 J		0.29 J / 0.35 J					.33 J
Heptachlor									0.63 / 0.68 JN				0.61 J				
Heptachlor epoxide									0.043 J / 0.058 J	0.031 J / 0.029 J		0.016 J / 0.025 J	2.2 J		0.053		
Methoxychlor																	

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	7/18/2007	7/23/2008	6/25/2009	6/16/2010	7/13/2011	6/12/2012	6/18/2013	6/13/2014	6/25/2015	7/5/2016	7/7/2017	7/10/2018	6/19/2019	7/1/2020
Parameters														
Volatile Organic Compounds (µg/L)														
1,1,1-Trichloroethane														
1,1,2,2-Tetrachloroethane	16 J		25 / 24								3.4 J		1.8 J / 1.8 J	6.1 / 7.9
1,1,2-Trichloroethane	15 J		9.1 J / 8.7 J								8.1		3.4 J / 3.8 J	12 / 14
1,1-Dichloroethane											0.32 J		0.22 J / 5.0 U	0.20 U / 0.27 J
1,1-Dichloroethene	2 J													0.63 J / 0.78 J
1,2-Dichloroethane														
1,2-Dichloroethene (total)														
1,2-Dichloropropane														
2-Butanone (Methyl Ethyl Ketone)			5.8 J / 6.1 J								5.1 J		5.7 J / 4.4 J	12 / 6.8 J
2-Hexanone														0.20 U / 2.1 J
Acetone	53 J		42 / 37	39							45		50 / 35	79 / 71
Benzene	7100	5300	7500 / 7600	3400	2200	5900	2500	6100	6200	7100	6300	6200	4900 / 5700	6500 / 6300
Bromodichloromethane												38 J		
Bromoform														
Bromomethane (Methyl bromide)														
Carbon Disulfide	2 J										0.31 J		0.31 J / 0.33 J	
Chlorobenzene	2100	1400	2900 J / 3000 J	1300	1100	2500	730	2300	2600	2700	2600	2400	2200 / 2400	2500 / 2400
Chloroform	140 J	99 J	96 / 97	160	67	130 J			180 J	400 J	100	230 J	59 / 60	140 / 140
Chlorotoluenes														
cis-1,2-Dichloroethene		79 J	79 / 76	110	38 J							39 J	8.1 / 8.4	26 / 28
Dibromochloromethane														
Dichlorotoluene, total														
Ethylbenzene	10 J		10 / 10	13							14		10 / 11	12 / 12
m&p-Xylenes														
Methylene Chloride	32 J		25 / 24	38	16 J				150 J		23		3.5 J / 3.8 J	6.4 / 7.2
o-Xylene														
Styrene														
Tetrachloroethene	13 J		14 / 14	19	9.5 J						17		5.0 J / 5.3	20 / 23
Toluene	23000	13000	24000 / 24000	11000	3100	14000	6100	20000	20000	23000	19000	21000	17000 / 19000	22000 / 21000
trans-1,2-Dichloroethene	50 J	32 J	30 / 30	48	17 J						31	34 J	27 / 27	29 / 35
Trichloroethene	89 J	27 J	91 / 89	140	52				110 J	78 J	73	71 J	26 / 28	120 / 130
Trichlorotoluene, total														
Vinyl Acetate														
Vinyl Chloride			27 / 17	31							15		3.9 J / 5.0 U	10 / 11
Xylenes (total)	37 J		44 / 53	51							58	35 J	47 / 48	58 / 58
Semi-volatile Organic Compounds (µg/L)														
1,2,4-Trichlorobenzene	47 J	28	110 / 110	78 J	76 J	74 J	69	64 J		22 J			28 J / 14 J	93 / 100
1,2-Dichlorobenzene	31 J	10 J	68 / 52	57 J	45 J		45	34 J	47 J	14 J				25 / 34
1,3-Dichlorobenzene	87 J		4.1 J / 5.5 J				5.2 J							3.6 J / 4.1 J
1,4-Dichlorobenzene	84 J	24	150 J / 100 J	150 J	130 J	110 J	130	94 J	140 J	36 J			45 J / 21 J	73 / 97
2,4,5-Trichlorophenol							10							37 / 26

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	7/18/2007	7/23/2008	6/25/2009	6/16/2010	7/13/2011	6/12/2012	6/18/2013	6/13/2014	6/25/2015	7/5/2016	7/7/2017	7/10/2018	6/19/2019	7/1/2020
Parameters														
Semi-volatile Organic Compounds (µg/L) (Continued)														
2,4,6-Trichlorophenol		6 J	28 / 23				12							
2,4-Dichlorophenol	490	150	1200 / 1100	780	590	240	360	660	790	42 J		120 J	35 J / 94 U	330 / 350
2,4-Dimethylphenol														8.9 J / 6.9 J
2-Chloronaphthalene						150 J	210							
2-Chlorophenol		17 J	31 / 26				28			12 J				27 / 31
2-Methylnaphthalene														1.4 J / 1.2 U
2-Methylphenol	34 J	140	66 J / 50 J	42 J	30 J		29	23 J	44 J					32 / 32
3&4-Methylphenol											34	80 J	31 J / 94 U	71 / 71
2-Nitrophenol														
3,5-Dichlorotoluene														
4-Chloro-3-methylphenol		26	95 / 97	31 J			23							46 / 40
4-Chlorophenyl phenyl ether														
4-Methylphenol	120 J	110	170 J / 140 J	130 J	83 J		89	53 J	93 J					
Acetic acid														
Anthracene														
Benzo(a)pyrene														
Benzo(b)fluoranthene														
Benzo(g,h,i)perylene														
Benzo(k)fluoranthene														
Benzoic Acid	14000	7600 J	39000 J / 54000 J	9500	11000	8700	16000	14000	16000	1100		6000	1300 / 1100	11000 / 10000
Benzyl Alcohol	580	38	1200 / 1300	610	450	600 J	380 J	290	250	79 J		280 J	61 J / 43 J	290 J / 290
Bis(2-Chloroethyl)Ether	30 J	16 J	29 / 28	34 J	28 J		26	19 J	27 J					20 / 24
bis(2-Ethylhexyl)Phthalate			4.4 J / 4.2 J											
Butyl benzylphthalate (BBP)														
Camphor														
Carbazole														
Chlorobenzoic acid														
Chrysene														
Dibenz(a,h)anthracene														
Diethyl phthalate														
Dimethyl Phthalate														
Dimethyl tetrasulfide														
Di-n-butyl phthalate (DBP)														
Di-n-octyl phthalate (DnOP)														
Fluoranthene														
Hexachlorobenzene														
Hexachloroethane														
Indeno(1,2,3-cd)pyrene														
Naphthalene														
N-Nitrosodiphenylamine														
Pentachlorophenol														
Phenanthrene														
Phenol	130 J	96	140 J / 160 J	100	82	89 J	92	62	87 J	11 J				40 / 44
Pyrene														

Table 3.5

Summary of Detected Compounds in Select Wells
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Well Number:	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	7/18/2007	7/23/2008	6/25/2009	6/16/2010	7/13/2011	6/12/2012	6/18/2013	6/13/2014	6/25/2015	7/5/2016	7/7/2017	7/10/2018	6/19/2019	7/1/2020
Parameters														
Pesticides/PCBs (µg/L)														
4,4'-DDD	0.081 J	0.13 J		0.048 J		0.036 J	0.089 J							
4,4'-DDE							0.053							
Aldrin	0.073	0.052 J	0.55 J / 0.55 J	0.063 J			0.16 J	0.060 J						1.0 J / 0.85
Alpha-BHC	12	17	27 J / 32 J	4.0	21	7.1 J	20	21 J	20	25		23	25 / 26	27 / 25
Alpha-Chlordane	0.011 J													
Aroclor-1260 (PCB-1260)			12 J / 11 J											
beta&gamma-BHC (sum of isomers)														
Beta-BHC	3.7	4.4	11 J / 9.1 J	4.1	7.1	3.1	5.9	5.3 J	4.7	6.7		4.3	6.7 / 7.5	6.8 J / 6.9
Delta-BHC	4.7	6.3	11 J / 12	0.28	7.3	1.6 J	5.2	4.8 J	7.4	11		7.2	7.6 / 6.3	9.2 / 8.7
Dieldrin														
Endosulfan I														
Endosulfan II			1.6 J / 2.3				0.053 J	0.12 J						
Endosulfan Sulfate	0.34	0.37 J	1.5 J						0.035 J					
Endrin	0.034 J		1.9 / 1.3 J						1.4					
Endrin ketone								0.067 J						
Gamma-BHC (Lindane)	2.1	2	7.4 J / 6.2 J	0.92	4.1	1.4 J	3.9	4.3 J	3.2	4.9		3.3	4.7 / 4.4	6.5 / 6.2
Gamma-Chlordane	0.017 J						0.065	0.064 J	1.1 J					
Heptachlor	0.092	0.19 J				0.71	0.15 J	0.23 J						
Heptachlor epoxide	0.29	0.13 J	1.6 J / 1.7 J	0.10 J		0.089 J	0.22 J	0.23 J						
Methoxychlor						0.036 J								

Notes:

D - Sample result is from a dilution

C - Sample result was confirmed

E - Sample result was greater than the highest calibration level

N - Validator qualifier-presumptive certainty, usually used when there is a large difference in dual column results

P - Lab qualifier used when there are large differences in dual column results

J - Estimated concentration

U - Not detected at the associated reporting limit

B - Detected in the blank sample

Blank - Not detected

PCBs - Polychlorinated Biphenyls

1140 Series Piezometers Water Levels - 2020
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand/Fill Medium

Date	Well **	
	1144 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	572.73	561.70
06/02/20	571.77	561.70
09/02/20	559.52*	561.70
12/09/20	568.37	561.70

Fractured Clay Medium

Date	Well **			
	1144 B (ft. AMSL)	1143 A (ft. AMSL)	1142 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	572.75	571.80	570.93	561.70
06/02/20	571.85	571.44	570.76	561.70
09/02/20	569.41	569.64	569.70	561.70
12/09/20	568.68	568.80	569.05	561.70

Soft Clay Medium

Date	Well **						
	1144 C (ft. AMSL)	1143 B (ft. AMSL)	1143 C (ft. AMSL)	1142 B (ft. AMSL)	1141 A (ft. AMSL)	Tile Drain (ft. AMSL)	1140 A (ft. AMSL)
03/02/20	572.41	571.79	570.23	568.45	566.50	561.70	564.20
06/02/20	571.67	571.56	570.03	568.43	566.58	561.70	564.01
09/02/20	569.35	569.79	569.05	568.06	566.40	561.70	564.30
12/09/20	568.34	568.94	568.05	567.44	565.89	561.70	564.28

Glacial Till Medium

Date	Well **					
	1144 D (ft. AMSL)	1143 D (ft. AMSL)	1142 C (ft. AMSL)	1141 B (ft. AMSL)	Tile Drain (ft. AMSL)	1140 B (ft. AMSL)
03/02/20	570.71	568.92	566.88	567.03	561.70	564.81
06/02/20	570.77	569.00	566.93	567.08	561.70	564.57
09/02/20	569.39	568.44	566.68	566.85	561.70	564.63
12/09/20	567.89	567.52	566.24	566.33	561.70	564.58

Notes:

- * - Groundwater elevation anomalous; suspected measurement error.
- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
- Indicates wells used in Figure 3.3 Piezometer Flow Diagram to generate Fractured Clay groundwater level
- Indicates wells used in Figure 3.3 Piezometer Flow Diagram to generate Soft Clay groundwater level
- Indicates wells used in Figure 3.3 Piezometer Flow Diagram to generate Glacial Till groundwater level
- ft. AMSL - Feet above mean sea level.

Table 3.6B

**1150 Series Piezometers Water Levels - 2020
Love Canal Long-Term Monitoring Program
Niagara Falls, New York**

Silty Sand/Fill Medium

Date	Well **	
	1151 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	571.52	561.85
06/02/20	569.96	561.85
09/02/20	DRY	561.85
12/09/20	DRY	561.85

Fractured Clay Medium

Date	Well **				
	1154 D (ft. AMSL)	1153 E (ft. AMSL)	1153 D (ft. AMSL)	1151 C (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	567.98	569.68	571.49	569.31	561.85
06/02/20	568.31	569.54	570.50	569.23	561.85
09/02/20	567.92	568.94	569.86	567.57	561.85
12/09/20	567.78	569.06	570.32	565.66	561.85

Soft Clay Medium

Date	Well **					
	1154 B (ft. AMSL)	1154 C (ft. AMSL)	1153 B (ft. AMSL)	1153 C (ft. AMSL)	1151 B (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	568.26	568.52	570.06	577.27	568.01	561.85
06/02/20	567.96	568.36	568.95	570.24	568.08	561.85
09/02/20	567.66	567.91	569.11	570.13	567.34	561.85
12/09/20	567.78	568.00	569.27	574.59	567.01	561.85

Glacial Till Medium

Date	Well **			
	1154 A (ft. AMSL)	1153 A (ft. AMSL)	1151 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	571.03	573.62	567.45	561.85
06/02/20	571.05	569.66	566.80	561.85
09/02/20	570.89	568.72	567.34	561.85
12/09/20	570.73	571.58	567.09	561.85

Notes:

**

- Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.

- Indicates wells used in Figure 3.4 Piezometer Flow Diagram to generate Fractured Clay groundwater level

- Indicates wells used in Figure 3.4 Piezometer Flow Diagram to generate Soft Clay groundwater level

- Indicates wells used in Figure 3.4 Piezometer Flow Diagram to generate Glacial Till groundwater level

ft. AMSL

- Feet above mean sea level.

Table 3.6C

1160 Series Piezometers Water Levels - 2020
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand/Fill Medium

Date	Well **	
	1165 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	573.51	560.60
06/02/20	572.46	560.60
09/02/20	571.53	560.60
12/09/20	571.11	560.60

Silty Sand Medium

Date	Well **		
	1165 C (ft. AMSL)	1163 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	572.40	DRY	560.60
06/02/20	572.49	DRY	560.60
09/02/20	572.27	DRY	560.60
12/09/20	571.96	DRY	560.60

Fractured Clay Medium

Date	Well **								
	1165 B (ft. AMSL)	1163 B (ft. AMSL)	1163 C (ft. AMSL)	1162 A (ft. AMSL)	1162 C (ft. AMSL)	1161 D (ft. AMSL)	Tile Drain (ft. AMSL)	1160 A (ft. AMSL)	1160 C (ft. AMSL)
03/02/20	572.17	569.87	570.14	570.23	569.99	570.01	560.60	565.38	566.42
06/02/20	571.35	569.95	570.39	569.83	569.98	570.22	560.60	564.92	DRY
09/02/20	570.75	569.78	570.11	569.51	569.74	570.18	560.60	564.94	566.67
12/09/20	570.45	569.27	569.37	569.12	569.39	569.53	560.60	565.19	566.42

Soft Clay Medium

Date	Well **								
	10176 A (ft. AMSL)	10176 B (ft. AMSL)	10176 C (ft. AMSL)	1165 A (ft. AMSL)	1163 A (ft. AMSL)	1161 B (ft. AMSL)	1161 C (ft. AMSL)	1161 E (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	571.11	571.09	569.35	572.61	568.95	567.16	569.25	565.59	560.60
06/02/20	569.35	569.40	568.86	572.99	568.66	566.84	569.30	565.35	560.60
09/02/20	568.38	568.70	568.42	572.26	568.69	566.96	569.21	565.42	560.60
12/09/20	568.16	568.69	567.78	571.68	568.69	566.91	568.84	565.50	560.60

Glacial Till Medium

Date	Well **			
	10176 D (ft. AMSL)	1162 D (ft. AMSL)	1161 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	568.15	567.94	565.63	560.60
06/02/20	567.76	567.63	565.31	560.60
09/02/20	567.59	567.53	565.24	560.60
12/09/20	567.01	567.69	565.27	560.60

Notes:




- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
-  - Indicates wells used in Figure 3.5 Piezometer Flow Diagram to generate Fractured Clay groundwater level
-  - Indicates wells used in Figure 3.5 Piezometer Flow Diagram to generate Soft Clay groundwater level
-  - Indicates wells used in Figure 3.5 Piezometer Flow Diagram to generate Glacial Till groundwater level
- ft. AMSL - Feet above mean sea level.

Table 3.6D

1170 Series Piezometers Water Levels - 2020
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Date	Well **		
	1174 D (ft. AMSL)	1173 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	568.87	572.77	555.60
06/02/20	568.61	571.96	555.60
09/02/20	568.36	570.81	555.60
12/09/20	568.78	570.50	555.60

Soft Clay Medium

Date	Well **				
	1174 B (ft. AMSL)	1174 C (ft. AMSL)	1173 B (ft. AMSL)	1173 C (ft. AMSL)	1172 B (ft. AMSL)
03/02/20	570.32	569.99	570.25	572.07	569.26
06/02/20	570.45	569.90	569.99	572.12	569.37
09/02/20	570.79	570.29	569.75	571.15	568.42
12/09/20	570.67	569.92	569.69	570.35	568.17

Date	1172 C (ft. AMSL)	1171 B (ft. AMSL)	1171 C (ft. AMSL)	Tile Drain (ft. AMSL)	1170 B (ft. AMSL)
	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/02/20	569.74	562.88	561.86	555.60	572.80
06/02/20	569.75	562.82	561.66	555.60	570.01
09/02/20	569.24	562.70	561.55	555.60	561.69
12/09/20	568.70	562.62	561.65	555.60	563.66

Glacial Till Medium

Date	Well **					
	1174 A (ft. AMSL)	1173 A (ft. AMSL)	1172 A (ft. AMSL)	1171 A (ft. AMSL)	Tile Drain (ft. AMSL)	1170 A (ft. AMSL)
03/02/20	567.94	568.74	566.76	564.18	555.60	562.70
06/02/20	570.45	568.47	566.78	564.14	555.60	562.48
09/02/20	570.45	569.08	566.60	563.85	555.60	562.21
12/09/20	570.55	568.97	566.48	563.61	555.60	562.35

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
- Indicates wells used in Figure 3.6 Piezometer Flow Diagram to generate Fractured Clay groundwater level
- Indicates wells used in Figure 3.6 Piezometer Flow Diagram to generate Soft Clay groundwater level
- Indicates wells used in Figure 3.6 Piezometer Flow Diagram to generate Glacial Till groundwater level
- ft. AMSL - Feet above mean sea level.

Table 3.6E

1180 Series Piezometers Water Levels - 2020
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand Medium

Date	Well **	
	1183 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	566.78	560.00
06/02/20	566.77	560.00
09/02/20	DRY	560.00
12/09/20	566.77	560.00

Fractured Clay Medium

Date	Well **				
	1184 C (ft. AMSL)	1184 D (ft. AMSL)	1183 C (ft. AMSL)	1183 B (ft. AMSL)	1181 C (ft. AMSL)
03/02/20	568.08	568.40	567.18	565.71	569.71
06/02/20	568.82	567.92	567.09	565.43	567.96
09/02/20	562.70	DRY	565.57	565.01	566.85
12/09/20	DRY	DRY	565.40	567.18	568.75

Date	Tile Drain (ft. AMSL)	1180 C (ft. AMSL)
03/02/20	560.00	DRY
06/02/20	560.00	DRY
09/02/20	560.00	DRY
12/09/20	560.00	DRY




Soft Clay Medium

Date	Well **			
	1184 B (ft. AMSL)	1181 B (ft. AMSL)	Tile Drain (ft. AMSL)	1180 B (ft. AMSL)
03/02/20	565.21	567.17	560.00	561.15
06/02/20	564.90	566.40	560.00	561.00
09/02/20	563.67	565.78	560.00	561.06
12/09/20	563.19	566.13	560.00	561.05

Glacial Till Medium

Date	Well **				
	1184 A (ft. AMSL)	1183 A (ft. AMSL)	1181 A (ft. AMSL)	Tile Drain (ft. AMSL)	1180 A (ft. AMSL)
03/02/20	564.85	564.45	569.03	560.00	563.63
06/02/20	565.00	564.38	567.50	560.00	563.56
09/02/20	564.11	563.96	566.24	560.00	563.28
12/09/20	563.60	563.17	568.54	560.00	562.97

Notes:

- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
-  - Indicates wells used in Figure 3.7 Piezometer Flow Diagram to generate Fractured Clay groundwater level
-  - Indicates wells used in Figure 3.7 Piezometer Flow Diagram to generate Soft Clay groundwater level
-  - Indicates wells used in Figure 3.7 Piezometer Flow Diagram to generate Glacial Till groundwater level
- ft. AMSL - Feet above mean sea level.

1190 Series Piezometers Water Levels - 2020
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Fractured Clay Medium

Date	Well **			
	1194 D (ft. AMSL)	1193 D (ft. AMSL)	1192 C (ft. AMSL)	Tile Drain (ft. AMSL)
03/02/20	574.54	572.17	569.97	554.80
06/02/20	573.42	572.11	570.31	554.80
09/02/20	569.41	571.11	570.04	554.80
12/09/20	568.67	570.21	569.60	554.80

Soft Clay Medium

Date	Well **					
	1194 B (ft. AMSL)	1194 C (ft. AMSL)	1193 B (ft. AMSL)	1193 C (ft. AMSL)	1192 B (ft. AMSL)	1191 B (ft. AMSL)
03/02/20	570.74	573.42	569.46	571.28	568.87	566.01
06/02/20	570.19	572.63	569.70	571.59	569.19	566.90
09/02/20	568.13	569.21	568.94	570.94	568.86	566.38
12/09/20	567.50	568.58	568.44	570.18	568.44	565.32

Date	1191 C (ft. AMSL)	Tile Drain (ft. AMSL)	1190 B (ft. AMSL)
	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/02/20	564.56	554.80	571.42
06/02/20	564.44	554.80	563.27
09/02/20	564.09	554.80	562.26
12/09/20	563.96	554.80	562.74

Glacial Till Medium

Date	Well **					
	1194 A (ft. AMSL)	1193 A (ft. AMSL)	1192 A (ft. AMSL)	1191 A (ft. AMSL)	Tile Drain (ft. AMSL)	1190 A (ft. AMSL)
03/02/20	565.11	566.33	565.05	565.75	554.80	566.19
06/02/20	564.99	566.21	565.01	565.97	554.80	565.40
09/02/20	564.26	565.57	564.30	565.89	554.80	564.35
12/09/20	563.88	565.26	563.97	565.42	554.80	564.12

Notes:




- ** - Wells listed from left to right in order from most distant outside of tile drain, to tile drain, then inside of tile drain.
-  - Indicates wells used in Figure 3.8 Piezometer Flow Diagram to generate Fractured Clay groundwater level
-  - Indicates wells used in Figure 3.8 Piezometer Flow Diagram to generate Soft Clay groundwater level
-  - Indicates wells used in Figure 3.8 Piezometer Flow Diagram to generate Glacial Till groundwater level
- ft. AMSL - Feet above mean sea level.

Table 3.7

**Groundwater Elevations in the Vicinity of Well 10135
Love Canal Long-Term Monitoring Program
Niagara Falls, New York**

Date	Well Location				
	Well 1165A (ft. AMSL)	Well 10135 (ft. AMSL)	Well 1163A (ft. AMSL)	Well 1161E (ft. AMSL)	Barrier Drain *
March 2020	572.61	571.60	568.95	565.59	560.60
June 2020	572.99	571.31	568.66	565.35	560.60
Sept 2020	572.26	570.64	568.69	565.42	560.60
Dec 2020	571.68	569.14	568.69	565.50	560.60

Notes:

- * Barrier Drain Elevation not measured; elevation taken from design data specific to 1160 piezometer location.

Appendices

Appendix A

Institutional and Engineering Controls Certification Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

11/20/2020

Joseph Branch Project Coordinator
OCC/Glenn Springs Holdings, Inc.
7601 Old Channel Trail
Montague, MI 49437

RE: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Love Canal

Site No.: 932020

Site Address: 805 97th Street

Dear Mr. Branch:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 Technical Guidance for Site Investigation and Remediation (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **January 30, 2021**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of
Environmental
Conservation

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
<http://www.dec.ny.gov/regulations/2586.html>

The signed certification forms should be sent to Brian Sadowski, Project Manager, at the following address:

New York State Department of Environmental Conservation
270 Michigan Avenue Buffalo, NY 14203-2915

Phone number: 716-851-7220 E-mail: brian.sadowski@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/enclosures
Brian Sadowski, Project Manager
Stanley Radon, Hazardous Waste Remediation Geologist, Region 9
John Pentilchuk, GHD Group (john.pentilchuk@ghd.com)

Enclosure 1 Certification

Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)

Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- Where the only control is an Institutional Control on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner.
- Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. 932020

Site Name Love Canal

Site Address: 805 97th Street Zip Code: 14304

City/Town: Niagara Falls

County: Niagara

Site Acreage: 70.0

Reporting Period: January 1, 2020 to December 31, 2020

- | | YES | NO |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| 1. Is the information above correct? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Box 2

- | | YES | NO |
|---------------------------------------------------------------------|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 932020

Description of Engineering and Institutional Controls

Boxes 3 and 4

<u>Parcel</u>	<u>Engineering Control</u>	<u>Institutional Control</u>
<u>232 Parcels</u>	Cover System Fencing/Access Control Groundwater Containment Leachate Collection Pump & Treat	Building Use Restriction Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan

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161.18-1-18

Periodic Review Report (PRR) Certification Statements

Box 5

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 932020

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2 and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I JOSEPH BRANCH at 7601 OLD CHANNEL TRAIL, MONTAGUE, MI 47437
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner or Remedial Party Rendering Certification

1/25/2021
Date

IC/EC CERTIFICATIONS

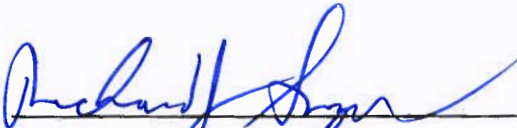
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I RICHARD J. SNYDER at 2055 NIAGARA FALLS BLVD. NIAGARA FALLS, NY
print name print business address 14304

am certifying as a Qualified Environmental Professional for the REMEDIAL PARTY
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



January 27, 2021
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding:
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;

1. whether all requirements of each plan were met during the reporting period

2. any requirements not met

3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals

1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).

2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Appendix B

Semiannual Inspection Forms



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semiannual Barrier System / Pump Chamber Inspections

Date: 5/20/2020
Inspector: Darrell Crockett

Weather: 65 °F

Check the Following as Appropriate:

Visual Inspection of chamber piping
 Verification of level probe performance
 Inspection of pump chamber integrity
 Inspection of pump chamber security

Wells	Satisfactory	Needs Maintenance
PC-1	<input type="text" value="Y"/>	<input type="text"/>
PC-2	<input type="text" value="Y"/>	<input type="text"/>
PC-3	<input type="text" value="Y"/>	<input type="text"/>
PC-1A	<input type="text" value="Y"/>	<input type="text"/>
PC-2A	<input type="text" value="Y"/>	<input type="text"/>
PC-3A	<input type="text" value="Y"/>	<input type="text"/>

Comments:

Signature: Darrell Crockett



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semiannual Barrier System / Pump Chamber Inspections

Date: 11/10/2020
Inspector: Darrell Crockett

Weather: 50 °F

Check the Following as Appropriate:

Visual Inspection of chamber piping
 Verification of level probe performance
 Inspection of pump chamber integrity
 Inspection of pump chamber security

Wells	Satisfactory	Needs Maintenance
PC-1	<input type="text" value="Y"/>	<input type="text"/>
PC-2	<input type="text" value="Y"/>	<input type="text"/>
PC-3	<input type="text" value="Y"/>	<input type="text"/>
PC-1A	<input type="text" value="Y"/>	<input type="text"/>
PC-2A	<input type="text" value="Y"/>	<input type="text"/>
PC-3A	<input type="text" value="Y"/>	<input type="text"/>

Comments:

Signature: Darrell Crockett



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

SEMIANNUAL LANDFILL CAP, SITE COVER, AND FENCE INSPECTION

Site: Love Canal
Date: 5/21/2020
Inspector: Darrell Crockett
Weather: Sunny 50 °F

Inspection Item	Applicable to Site	Inspect For	
1. <u>Landfill Cap</u>	Y	<ul style="list-style-type: none">- signs of erosion (cap, ditches, swales)- exposure of the HDPE Liner- areas of insufficient grass coverage- signs of dead/dying grass- presence of washouts- settlement causing ponding of water- signs of slope instability- signs of burrowing by animals- presence of rooting trees (cap, ditches, swales)- signs of poor drainage in ditches/swales	<ul style="list-style-type: none">NNNNNYYNNN
2. <u>Site Cover</u> (Asphalt, Grass, Vegetation)	N	<ul style="list-style-type: none">- signs of erosion (cover, ditches, swales)- areas of insufficient asphalt, grass, vegetation coverage- signs of dead/dying grass/vegetation- presence of washouts- settlement causing ponding of water- signs of slope instability- signs of burrowing by animals- presence of rooting trees (cover, ditches, swales)- signs of poor drainage in ditches/swales	<ul style="list-style-type: none">Y / NY / NY / NY / NY / NY / NY / NY / NY / N
3. <u>Perimeter Fence</u>	Y	<ul style="list-style-type: none">- breaches in fence- gates secure- locks in place- missing or illegible signage	<ul style="list-style-type: none">NYYN

Comments/Remarks (Note: If repair/maintenance is recommended, describe its location/extent below)

There is settlement and wet area on the road leading to PC1 and south of the road generally consistent with last year's inspection



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

SEMIANNUAL LANDFILL CAP, SITE COVER, AND FENCE INSPECTION

Site:	Love Canal	Weather:	Sunny 45 °F
Date:	11/11/2020		
Inspector:	Darrell Crockett		

Inspection Item	Applicable to Site	Inspect For	
1. <u>Landfill Cap</u>	Y	- signs of erosion (cap, ditches, swales)	N
		- exposure of the HDPE Liner	N
		- areas of insufficient grass coverage	N
		- signs of dead/dying grass	N
		- presence of washouts	N
		- settlement causing ponding of water	N
		- signs of slope instability	N
		- signs of burrowing by animals	N
		- presence of rooting trees (cap, ditches, swales)	N
		- signs of poor drainage in ditches/swales	N
2. <u>Site Cover</u>	N	- signs of erosion (cover, ditches, swales)	Y / N
(Asphalt, Grass, Vegetation)		- areas of insufficient asphalt, grass, vegetation coverage	Y / N
		- signs of dead/dying grass/vegetation	Y / N
		- presence of washouts	Y / N
		- settlement causing ponding of water	Y / N
		- signs of slope instability	Y / N
		- signs of burrowing by animals	Y / N
		- presence of rooting trees (cover, ditches, swales)	Y / N
		- signs of poor drainage in ditches/swales	Y / N
3. <u>Perimeter Fence</u>	Y	- breaches in fence	N
		- gates secure	Y
		- locks in place	Y
		- missing or illegible signage	N

Comments/Remarks (Note: If repair/maintenance is recommended, describe its location/extent below)

Niagara Grass filled and graded the settlement and wet area on the road leading to PC1 and south of the road observed during the first semi-annual inspection.



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semi-Annual Barrier Drain Manhole Inspection

Date 5/20/2020

Sector	MH No.	Location	Water Y/N	Level Feet	Debris Y/N	Structure OK	Cleaning Y/N	Comments
North Colvin	MH-10A	NW	N	3"	N	Y	N	
	MH-8A	NW	Y	3"	N	Y	N	
	MH-6C	NW	Y	3"	Y	Y	N	Some built up sludge - no flow restriction
	MH-6B	NW	Y	3"	Y	Y	N	Some built up sludge - no flow restriction
	MH-6A	NW	Y	3"	Y	Y	N	Some built up sludge - no flow restriction
	PC-2A	NW	Y	3'	N	Y	N	
	MH-4A	NW	Y	2"	N	Y	N	
	MH-2A	NW	Y	2"	N	Y	N	
	MH-2	SW	Y	3"	Y	Y	N	
	MH-4	SW	Y	3"	Y	Y	N	
	MH-6	SW	Y	3"	N	Y	N	
	MH-8/PC2	SW	Y	2.8'	N	Y	N	
	MH-10	SW	Y	2"	Y	Y	N	
South Frontier	MH-12	SW	Y	2"	N	Y	N	
	MH-14	SW	Y	2"	N	Y	N	
North Colvin								
	NH-17A	NE	N	3"	N	Y	N	
	MH-15A	NE	Y	3"	N	Y	N	
	MH-13A	NE	Y	3"	Y	Y	N	
	PC1A	NE	Y	3.0'	Y	Y	N	
	MH-11A	NE	Y	3"	N	Y	N	
	MH-9A	NE	Y	3"	N	Y	N	
	MH-7A	NE	Y	3"	Y	Y	N	
	MH-5A	NE	N	3"	N	Y	N	
	MH-3A	NE	Y	3"	N	Y	N	
	MH-1A	NE	Y	3"	N	Y	N	
	MH-1	SE	N	3"	N	Y	N	
	MH-3	SE	Y	3"	Y	Y	N	
	MH-5	SE	N	2"	N	Y	N	
	MH-7/PC1	SE	Y	2.7'	N	Y	N	
	MH-9	SE	Y	2"	N	Y	N	
	MH-11	SE	Y	2"	Y	Y	N	
South Frontier	MH-13	SE	Y	2"	N	Y	N	

Signature: Darrell Crockett



Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semi-Annual Barrier Drain Manhole Inspection

Date 10/19/2020

Sector	MH No.	Location	Water Y/N	Level Feet	Debris Y/N	Structure OK	Cleaning Y/N	Comments
North Colvin	MH-10A	NW	N	0	N	Y	N	
	MH-8A	NW	Y	0.4	N	Y	N	
	MH-6C	NW	Y	1"	Y	Y	N	Some built up sludge - no flow restriction
	MH-6B	NW	Y	1"	Y	Y	N	Some built up sludge - no flow restriction
	MH-6A	NW	Y	1"	Y	Y	N	Some built up sludge - no flow restriction
	PC-2A	NW	Y	4'	N	Y	N	
	MH-4A	NW	Y	1"	N	Y	N	
	MH-2A	NW	Y	2"	N	Y	N	
	MH-2	SW	Y	3"	Y	Y	N	
	MH-4	SW	Y	5"	Y	Y	N	
	MH-6	SW	Y	3"	N	Y	N	
	MH-8/PC2	SW	Y	3'	N	Y	N	
	MH-10	SW	Y	3"	Y	Y	N	
South Frontier	MH-12	SW	Y	4"	N	Y	N	
	MH-14	SW	Y	1"	N	Y	N	
North Colvin								
	NH-17A	NE	N	0	N	Y	N	
	MH-15A	NE	Y	2"	N	Y	N	
	MH-13A	NE	Y	2"	Y	Y	N	
	PC1A	NE	Y	2'	Y	Y	N	
	MH-11A	NE	Y	2"	N	Y	N	
	MH-9A	NE	Y	1"	N	Y	N	
	MH-7A	NE	Y	2"	Y	Y	N	
	MH-5A	NE	N	1"	N	Y	N	
	MH-3A	NE	Y	2"	N	Y	N	
	MH-1A	NE	Y	2"	N	Y	N	
	MH-1	SE	N	2"	N	Y	N	
	MH-3	SE	Y	2"	Y	Y	N	
	MH-5	SE	N	2"	N	Y	N	
	MH-7/PC1	SE	Y	3.5'	N	Y	N	
	MH-9	SE	Y	1"	N	Y	N	
	MH-11	SE	Y	3"	Y	Y	N	
South Frontier	MH-13	SE	Y	1"	N	Y	N	

Signature: Darrell Crockett

Appendix C

Niagara Falls Water Board

Wastewater Discharge Permit #44

NIAGARA FALLS WATER BOARD

SIGNIFICANT INDUSTRIAL USER WASTEWATER DISCHARGE

Permit No. 44

In accordance with all terms and conditions of the
Niagara Falls Water Board Wastewater Regulations Part 1960
and also with all applicable provisions of Federal and State Law or regulation:

Permission Is Hereby Granted To:

**GLENN SPRINGS HOLDINGS, INC. –
LOVE CANAL LEACHATE TREATMENT FACILITY**

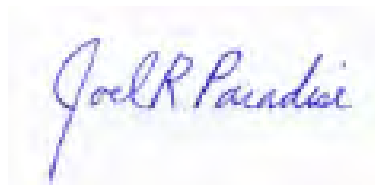
Located at: 805 - 97th Street, Niagara Falls, NY 14304

Classified by SIC Number: 4952

For the contribution of wastewater into the Niagara Falls Water Board
Publicly-Owned Treatment Works (POTW).

Effective this 10th day of January 2020
To Expire this 9th day of January 2025

Signed this 20th day of December 2019



For
Pat Fama
Executive Director of the Niagara Falls Water Board

DISCHARGE IDENTIFICATION

OUTFALL	DESCRIPTION	LOCATION	RECEIVING
#1	97 th Street Discharge	97 th Street	Carbon treated leachate from the Love Canal Leachate Treatment Facility and the 102 nd Street landfill

A. Discharges to the Niagara Falls Water Board (NFWB) Sewer

WASTEWATER DISCHARGE PERMIT REQUIREMENTS FOR:	ACTION REQUIRED	REQUIRED DATE OF SUBMISSION
1. Identification of all discharges to the NFWB Sewer System on a current plant sewer map certified by a New York State licensed professional engineer.	None	Submitted 12/06/2019
2. Identification of each contributing waste stream to each discharge to the NFWB Sewer System clearly marked on, or referenced to, a current plant sewer map certified by a New York State licensed professional engineer.	None	Submitted 12/06/2019
3. Elimination of all uncontaminated discharges to the NFWB Sewer System. All uncontaminated flows should be clearly identified on a current sewer map certified by a New York State licensed professional engineer.	N/A	
4. Establishment of a control manhole that is continuously and immediately accessible for each discharge to the NFWB Sewer System.	None	Previously Established

B. Wastewater Discharge Management Practices

1. Identification of a responsible person(s) (day to day and in emergencies).	Updated as needed by NFWB personnel
-------------------------------------------------------------------------------	-------------------------------------

C. General Wastewater Discharge Permit Conditions

1. Flow monitoring should be performed concurrently with any Wastewater Discharge Permit sampling and should be reported at the same time as analytical results. If it is not feasible to perform flow monitoring, an estimate of flow (method of estimated flow preapproved by the Niagara Falls Water Board) should be submitted with the analytical results.
2. All sampling for billing and pretreatment compliance purposes will be coordinated through the Niagara Falls Water Board Industrial Monitoring Coordinator.
3. All analysis must be performed by a State certified laboratory using analytical methods promulgated and consistent with 40 CFR 136 and amendments thereto. The permittee will request their contract laboratory to report both Practical Quantitation Limit (PQL) and Method Detection Limit (MDL). The PQL and MDL are defined in the NYSDEC Technical Guidance Series 1.3.7.

The permittee should report results that are less than the MDL or PQL on the NFWB Self Monitoring Report, as non-detect (ND), by placing a less than sign (<) followed by the analytical result. Every effort should be made to attain results down to the MDL. If this is not possible, then results less than PQL but greater than MDL must also be additionally flagged with the qualifier **"J" on the Self Monitoring Report. For example, a result less than 5 PQL** would be reported <5 (J). In either case the calculated load in lbs per day would be zero. Monitoring results which are lower than the PQL must be reported but will not be used to determine compliance with the permit limit.

4. An estimate of relative production levels for wastewater contributing processes at the time of any pretreatment compliance sampling will be submitted upon request of the Director of Niagara Falls Water Board – Wastewater Facilities.
5. All samples will be handled in accordance with EPA approved methods. Chain of Custody records will be submitted with all sampling results.
6. All conditions, standards and numeric limitations of Niagara Falls Water Board Wastewater Regulations are hereby incorporated into this permit by reference. These conditions, standards and numeric limitations must be complied with. Failure to comply with any part of said regulations constitutes a violation and is subject to enforcement actions(s) described in Section 1960.9 of said Regulations, and in the Niagara Falls Water Board Pretreatment Administrative Procedure Number Five (5) - "Enforcement Response Guide." Violators are subject to all applicable *Civil* and *Criminal* penalties. In the event of a violation, including slug discharges or spills, the Niagara Falls Water Board must be notified immediately by phone and confirmed by letter within five (5) working days. (C6. continued)

C. General Wastewater Discharge Permit Conditions (continued)

- 6.cont. Any person adjudicated of violating any provision in the Niagara Falls Water Board Wastewater Regulations shall be assessed a fine in the amount of up to \$10,000. This amount is available for each violation, and each day of a violation is a separate incident for which penalties may be sought.

The person violating any of the provisions of the Niagara Falls Water Board Wastewater Regulations will be liable for any expense, loss, or damage occasioned by reason of such violation. The expense, loss or damage will be taken to be to the extent determined by the Director.

In addition, any person who knowingly makes any false statements; representation or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to the Niagara Falls Water Board Wastewater Regulations, or Wastewater Discharge Permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under the Niagara Falls Water Board – Wastewater Regulations will, upon conviction be punished by a fine up to \$5,000. Furthermore, the **Niagara Falls Water Board may recover reasonable attorney's fees, court costs, court reporting fees, and other expenses of litigation by appropriate suit at law against the person found to have violated applicable laws, orders, rules and permits required by the Niagara Falls Water Board Wastewater Regulations.**

7. In accordance with Federal Regulation CFR 40, Part 403.12(g), any exceedance of a numeric limitation noted by the SIU must be re-sampled, analyzed and resubmitted to the of Niagara Falls Water Board Wastewater Facilities within 30 days of becoming aware of the exceedance.

Specifically, if any limit that is listed in Section E of this permit is exceeded, then the permittee will undertake a short-term monitoring program for that pollutant. Samples will be collected identical to those required for routine monitoring purposes and will be collected on each of at least two (2) operating days and analyzed. Results will be reported in both concentration and mass, and will be submitted within 30 days of becoming aware of the exceedance.

8. Sampling frequency for any permitted compounds may be increased beyond the requirements set forth in Section E and F of this permit. If the permittee monitors (sample and analysis) more frequent than required under this permit, all results of this monitoring must be reported.
9. As noted in Section 1960.5g of the Niagara Falls Water Board Wastewater Regulations, "Personnel as designated by the Director will be permitted at any time for reasonable cause to enter upon all properties served by the Niagara Falls Water Board – Wastewater Facilities for the purpose of, and to carry out, inspection of the premises, observation, measurement, sampling and testing, in accordance with provisions of the Regulations." (C. continued)

C. General Wastewater Discharge Permit Conditions (continued)

10. As noted in Section 1960.5c of the Niagara Falls Water Board Wastewater Regulations, significant changes in discharge characteristics or volume must be reported immediately to the Niagara Falls Water Board – Wastewater Facilities.
11. As noted in Section 1960.6b of the Niagara Falls Water Board Wastewater Regulations, samples required to be collected via a 24-hour composite sampler must be retained refrigerated for an additional 24 hour plus unrefrigerated an additional 48 hours (total 72 hours).
12. As noted in Section 1960.5d of the Niagara Falls Water Board Wastewater Regulations, all "SIU's will keep on file for a minimum of three years, all records, flow charts, laboratory calculations or any other pertinent data on their discharge to the Niagara Falls Water Board – Wastewater Facilities.
13. As noted in Section 1960.6g of the Niagara Falls Water Board Wastewater Regulations, "Permits are issued to a specific user for a specific monitoring station. A permit will not be reassigned or transferred without the approval of the Director which approval will not be unreasonably withheld. Any succeeding owner or user to which a permit has been transferred and approved will also comply with all the terms and conditions of the existing permit."
14. The Annual Average Limitation is equivalent to the specific SIU allocation, and will be defined as the permissible long-term average discharge of a particular pollutant. These limitations are listed in Section E of this permit. The computation of the Annual Average will be as follows; for each compound listed in Section F of this permit, the Annual Average will be the average of the present monitoring quarter and **three previous quarters' data**.
15. The Daily Maximum Limitation will be defined as the maximum allowable discharge on anyone day. The Daily Maximum Limitation will allow for periodic short-term discharge fluctuations. These specific limitations are listed in Section E of this permit.
16. Enforcement of the Annual Average Limitation will be based on the reported average of the last four quarters data vs. the Annual Average Limited listed in Section E of this permit. Enforcement of the Daily Maximum Limitation will be based on individual analysis results vs. the Daily Maximum Limit listed in Section E of this permit. These results may be obtained from self-monitoring (Section F), Niagara Falls Water Board Verification, incident investigation or billing samples.

(C. continued)

C. General Wastewater Discharge Permit Conditions (continued)

17. The Niagara Falls Water Board Administrative Procedure Number 6 "Procedure for Determination and Use of Local Limits" lists all pollutants noted in the Niagara Falls Water Board – Wastewater Facilities SPDES Permit. The limits defined in the procedure are values which are based on the quantity of substances discharged which can be easily related to the Treatment Plant's removal capacity.

The pollutants listed in this procedure which are not specifically listed in Section E and F of this permit may be present in the permittee's wastewater discharge, but at levels which do not require specific permit limitations. Consequently, if any of the limits listed in this procedure, for pollutants not identified in Section E and F of this permit, are exceeded then the permittee will undertake a short-term, high intensity monitoring program for that pollutant.

Samples identical to those required for routine monitoring purposes will be collected on each of at least three operating days and analyzed. Results will be expressed in terms of both concentration and mass, and will be submitted no later than the end of the third month following the month when the limit was first exceeded.

If levels higher than the limit are confirmed, the permit may be reopened by the Niagara Falls Water Board for consideration of revised permit limits.

18. 40 CFR 403.17(c) contains the notification requirements for anticipated and unanticipated bypass. In the event of an anticipated bypass, the federal regulations at 403.17 (c)(1) require an industrial user to notify the Niagara Falls Water Board at least ten days prior to the date of the bypass. In the event of an unanticipated bypass, the federal regulations at 40 CFR 403.17(c)(2) require an industrial user to notify the Niagara Falls Water Board within 24 hours from the time the industrial user becomes aware of the bypass and submit a written description of the bypass within five days of the time the industrial user becomes aware of the bypass. As defined at 403.17 (a)(1), **a bypass is "the intentional diversion of wastestreams from any portion of an Industrial User's treatment facility."**
19. 40 CFR 403.8(f)(2)(vi) requires the SIU to notify the Niagara Falls Water Board immediately of any changes at its facility affecting its potential for a slug discharge.

D. Specific Wastewater Discharge Permit Conditions

1. Billing Agreement:

- a) Flow quantities will be derived from the Wastewater Treatment Facility flow meter. The results of the daily flow readings will be compiled and submitted to the Niagara Falls Water Board in a Monthly Flow Report by the 15th day of the following month.
- b) Charges for TSS, SOC and Substances of Concern shall be developed based on Quarterly Self-Monitoring data.

2. Love Canal Leachate Treatment Facility (LCLTF)

The Niagara Falls Water Board agrees to accept wastewater processed from the Glenn Springs Holdings (GSH) LCLTF. These waters in addition to Love Canal wastewater shall include wastewater from the 102nd Street remedial site. This approval is subject to the following conditions:

- a) The LCLTF shall be properly operated and maintained at all times.
- b) To ensure proper operation GSH shall ensure sufficient feed, inter-stage (breakthrough), and effluent analysis to ensure timely carbon changes. Treatment levels of 10 **ug/l** shall be achieved and verified with quarterly composite sample analysis for the following compounds: trichloroethylene, tetrachloroethylene, monochlorotoluene, monochlorobenzenes, trichlorobenzenes, tetrachlorobenzenes, hexachlorocyclohexanes- alpha, beta, gamma and delta and hexachlorobenzene.
- c) The issuance of this approval is based on GSH's previous assertions that there is no reason to anticipate the presence of tetrachlorodibenzo-p-dioxins in the discharge from the treatment facility. The Niagara Falls Water Board hereby reserves the right to collect samples from the treatment facility effluent and analyze such wastewaters for their chemical constituents, including tetrachlorodibenzo-p-dioxins. If such analysis indicates the presence of tetrachlorodibenzo-p-dioxins, this approval may be withdrawn. If at any time, the Niagara Falls Water Board determines on any basis that the discharge of these wastewater to the POTW is interfering with the operation of that facility, the Niagara Falls Water Board will direct GSH to discontinue the discharge.
- d) These pretreated wastewaters shall be discharged to the POTW via Outfall MS # 1.

(D2. continued)

D. Specific Wastewater Discharge Permit Conditions (continued)

2. Love Canal Leachate Treatment Facility (LCLTF) (continued)

- e) Periodically wet weather flow in the area around LCLTF results in surcharged sewers. The resultant surcharge requires overflow at combined sewer and storm sewer overflow points. Other points in the sewer shed require manual bypass pumping. Consequently, to minimize this overflow, the Niagara Falls Water Board will require the permittee to cease discharge from the LCLTF during these surcharge events.

A notification procedure has been established by the Niagara Falls Water Board to formalize the communication between the Niagara Falls Water Board and the permittee to halt and resume the LCLTF discharge. This procedure by reference is hereby incorporated as a condition of this permit.

3. Slug Discharge Control Plan:

Pursuant to the regulations contained in the Federal Industrial Pretreatment Program, 40CFR 403.8(f)(2), the NFWB is obligated to periodically review users for the need for a Slug Discharge Control Plan.

This permittee has been reviewed and is NOT required to develop and implement such a plan.

E. Discharge Limitations & Monitoring Requirements

During the Period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall(s) will be limited and monitored by the permittee as specified below.

OUTFALL NUMBER/ EFFLUENT PARAMETER	DISCHARGE LIMITATIONS		UNITS	MINIMUM MONITORING REQUIREMENTS	
	ANNUAL AVERAGE	DAILY MAXIMUM		MEASUREMENT FREQUENCY	SAMPLE TYPE
MS #1 Flow	0.3	0.3	MGD	Continuous	4
MS #1 Total Suspended Solids	25	50	lbs./d	1/Quarter	1
MS #1 Soluble Organic Carbon	50	75	lbs./d	1/Quarter	1
MS#1 Volatile Priority Pollutants (See Attached list (Section F-1))	MONITOR ONLY		lbs./d	1/Quarter	1
MS #1 Acid Extractable Priority Pollutants (See attached list Section F-2)	MONITOR ONLY		lbs./d	1/Quarter	1
MS #1 Base/Neutral Priority Pollutants (See attached list Section F-3)	MONITOR ONLY		lbs./d	1/Quarter	1
MS #1 Pesticides Hexachlorocyclohexanes- alpha, beta, gamma and delta (See attached list Section F-4)	MONITOR ONLY		lbs./d	1/Quarter	1
MS #1 Total Phenols	MONITOR ONLY		lbs./d	1/Quarter	1

SAMPLE TYPE FOOTNOTES

- (1) Each sample will consist of four (4) grabs collected spaced throughout the batch discharge, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be composited in the laboratory and analyzed as one sample.
- (2) Each sample will consist of four (4) grabs collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be composited in the laboratory and analyzed as one sample.
- (3) Each sample will consist of a 24-hour, flow proportioned composite sample collected from the monitoring point.
- (4) Flow will be monitored continuously with the use of a water meter or another acceptable flow metering device.
- (5) Each sample will consist of a 24-hour, time proportioned composite sample collected from the monitoring point.
- (6) Reserved
- (7) Same as (3), however, five (5) samples will be collected per quarter from the monitoring point and analyzed by and at the Niagara Falls Water Board's expense.
- (8) Four (4) grab samples will be collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. Each grab will be analyzed and reported separately.
- (9) A grab sample is defined as an aliquot collected over a period of not more than 15 minutes.

F. Discharge Monitoring Reporting Requirements

During the period beginning the effective date of this permit and lasting until its expiration date, discharge monitoring results will be summarized and reported by the permittee; Monthly - 14 days after monitoring period, Quarterly - by the last day of the monitoring period = February 28, May 31, August 31, November 30. Semiannual reports will be submitted on the last day of the monitoring period = February 28, August 31. The annual average for each parameter listed in Section F, will be computed and reported quarterly. The individual sample analysis for present quarter will also be reported quarterly unless directed otherwise in this permit.

OUTFALL NO	PARAMETER	REPORTING FREQUENCY
MS #1	Flow	Monthly
MS #1	Total Suspended Solids	Quarterly
MS #1	Soluble Organic Carbon	Quarterly
MS #1	Volatile - Priority Pollutants (F-1) *	Quarterly
MS #1	Acid Extractables - Priority Pollutants (F-2) *	Quarterly
MS #1	Base/Neutral - Priority Pollutants (F-3) *	Quarterly
MS #1	Pesticides (F-4) *	Quarterly
MS #1	Total Phenols	Quarterly

* See specific compounds listed on the following page.

(F. continued)

F. Discharge Monitoring Reporting Requirements (continued)

Discharge Monitoring Compounds

F1- Volatile Priority Pollutants		
Benzene	Bromoform	Trichloroethylene
Carbon Tetrachloride	Dichloropropylenes	Methylene Chloride
Chlorodibromomethane	Ethylbenzene	Vinyl Chloride
Monochlorobenzene	Tetrachloroethanes	Monochlorotoluenes
Dichlorobromomethane	Tetrachloroethylene	Monochlorobenzotrifluoride
Chloroform	Toluene	
Dichloroethylenes	Trichloroethanes	

F2- Acid Extractables Priority Pollutants		
Monochlorophenol	Monochlorocresol	Pentachlorophenol
Dichlorophenol	Trichlorophenol	

F3- Base/Neutrals Extractables Priority Pollutants		
Dimethyl Phthalate	Dichlorotoluene	Trichlorobenzene
Butyl Benz Phthalate	Acenaphthlene	Trichlorotoluene
Di-N-Butyl Phthalate	Fluoranthene	Hexachlorobutadiene
Di-N-Octyl Phthalate	Chrysene	Tetrachlorobenzene
Diethyl Phthalate	Napthalene	Hexachlorocyclopentadiene
Nitrosodiphenylamine	Benzo (a) Anthracene	Hexachlorobenzene
Dichlorobenzenes	Pyrene	Dichlorobenzotrifluoride

F4- Pesticides		
Hexachlorocyclohexanes- alpha, beta, delta, and gamma		

G. Comments/Revisions

Appendix D

Annual Groundwater Sampling Schedule



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Clint Babcock, Ralph Schupp
FROM: Jane Pietraszek-Polovich/adh/8 *JPP*
C.C.: Darrell Crockett, Dennis Hoyt, John Pentilchuk,
Dave Tyran, Filing
RE: Love Canal Annual Groundwater Sampling Schedule

REF. NO.: 009954
DATE: August 5, 2010

At the request of Glenn Springs Holdings, Inc. (GSH), Conestoga-Rovers & Associates (CRA) has prepared the following memo to document the Annual Groundwater Sampling schedule for the Love Canal Facility in Niagara Falls, New York (Site).

Correspondence from Mr. Brian Sadowski of the New York State Department of Environmental Conservation (NYSDEC) sent to CRA and GSH on March 25, 2009 (email attached) states that it is no longer necessary for the NYSDEC to specifically list the wells to be sampled each year at the Site, since the annual and alternating (Group I and Group II) wells have remained the same throughout the years. From 1994 through 2008, the NYSDEC provided GSH with a list of wells to be sampled each year. The March 25, 2009 email from Mr. Sadowski stated that the NYSDEC will no longer provide such a list. Therefore, Mr. Sadowski suggested that the wells sampled during the 2007 annual groundwater monitoring event be used for the 2009 annual groundwater monitoring event, to remain consistent with the Long-Term Monitoring Program. The 2007 (and therefore 2009) monitoring wells represent the Group I wells (Table 1). The 2008 (and therefore 2010) monitoring wells represent the Group II wells. In addition, there are select overburden and bedrock wells that are to be sampled annually (Table 1).

Mr. Sadowski went on to further state that GSH must "ensure that the monitoring network and well selection provide adequate overburden and bedrock coverage that returns the data necessary for the evaluation of the remediation, and that the NYSDEC feels that the selection of the 2007 wells will meet those objectives." Mr. Sadowski indicated that GSH can enhance upon the objective by choosing other wells if they wish. Once the well selection is made for the annual event, GSH is to provide the NYSDEC with the monitoring well numbers. Any changes in the well selection must be accompanied with reasons for the addition/deletion. Based on a review of the data for the wells suggested by NYSDEC, GSH agreed to sample the wells in Table 1 for future sampling events. This was communicated to the NYSDEC through a phone call to Mr. Sadowski on June 7, 2010, and documented in the attached email dated June 8, 2010. The NYSDEC is to be notified when the annual monitoring will take place for oversight purposes and to split samples if desired. A 2-week notice of the annual groundwater monitoring event is preferred by the NYSDEC.

TABLE 1
SAMPLE SCHEDULE
LOVE CANAL FACILITY
LONG-TERM MONITORING PROGRAM
NIAGARA FALLS, NEW YORK

<i>Annual Wells</i>	<i>Biannual Wells</i>	
<i>Bedrock Wells</i>	<i>Overburden Wells Group I (2009)</i>	<i>Overburden Wells Group II (2010)</i>
3257	3151	7115
5221	7120	7125
6209	7155	8115
7205	7161	8125
8210	8110	9105
9205	8120	9113
9210	8130	9118
10205	8140	10178A
10210A	9110	
10210B	9115	
10210C	9120	
10215	9125	
10225A	9130	
10225B	9140	
10225C	10105	
10270	10147	
10272	10174A	
10278		
<i>Overburden Wells</i>		
7130		
7132		
8106		
10135		

From: Crockett, Darrell
Sent: Wednesday, March 25, 2009 12:06 PM
To: Pentilchuk, John
Subject: 9954 FW: Love Canal Annual 2009 Sampling
John,

Please let me know how you'd like for me to proceed. I have the 2007 sampling event data.

Thanks
Darrell

From: Brian Sadowski [mailto:bpsadows@gw.dec.state.ny.us]
Sent: Wed 3/25/2009 11:56 AM
To: Crockett, Darrell
Cc: Hoyt, Dennis; Clint_Babcock ext
Subject: Re: Love Canal Annual 2009 Sampling

Darrell,

Your contact and this response will be considered as our pre-sampling conference as stated on p.6. in Section 2.0 Monitoring Requirements of the February 19, 2001 Sampling Manual. Over the last fourteen years the Department has specifically listed the wells to sample and believe that is no longer necessary as the annual and alternating wells have stayed the same. GSHI and/or MSRM has clearly demonstrated their ability to operate, maintain and monitor the site. With the addition of CRA; there is an added layer of technological security and professional environmental judgement. With that said, the Department will not provide a specific list of wells to monitor. However, the suggested wells are the wells that were sampled in 2007 to remain consistent with the LTM program schedule listed on Table 2.2 of the Sampling Manual. The monitoring schedule is flexible. OXY and CRA is to ensure that the monitoring network and well selection provides adequate overburden and bedrock coverage that returns the data necessary for the evaluation of the remediation. The Department feels that the selection of the 2007 wells will meet those objectives. OXY and CRA can enhance upon the objectives by choosing other wells if they wish. When a decision is made by CRA on the well selection, please provide the Department with the well numbers. A simple return "as same as 2007 or 2007 with the addition, deletion or substitution of well #" will suffice. If changes are made, please provide reasoning. Finally, the Department will not be splitting this year. But, will need to be given notice when monitoring will take place for oversight purposes. Thank you.

>>> "Crockett, Darrell" <dcrockett@craworld.com> 3/18/2009 8:05 AM >>>
Hello Brian,

At your convenience would you please provide me with a 2009 Annual sampling well list including the split samples.

Thank You
Darrell Crockett
716/998-5804

From: Polovich, Jane

Sent: Tuesday, June 08, 2010 9:49 AM

To: Filing

Subject: 9954: Love Canal Annual Sampling - Conversation with Brian Sadowski NYSDEC

I spoke with Brian Sadowski on Monday June 7, 2010 to confirm the annual groundwater sampling locations at Love Canal. As per Brians email of March 25 2009 to Darrell Crockett, the 2007 wells selected by the DEC were to be the ones sampled in 2009 (these represent the Group I wells). I confirmed with Mr. Sadowski that the 2008 wells selected by the DEC would be teh wells sampled in 2010 (representing the Group II wells). These Group I and Group II wells will from this point forward be the wells sampled for the alternating annual groundwater sampling events at Love Canal. Mr Sadowski went further to say that GSH may add or delete wells from the sampling but must provide a reason to the DEC prior to sampling for the additions / deletions. CRA documented this change in the sampling program in a internal memo.

Jane Polovich

Conestoga-Rovers & Associates (CRA)


2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Phone: 716.297.6150

Fax: 716.297.2265

Email: jpolovich@CRAworld.com

www.CRAworld.com

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Appendix E

Laboratory Reports



July 14, 2020

Service Request No:R2005470

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory June 25, 2020
For your reference, these analyses have been assigned our service request number **R2005470**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005470
Date Received: 06/25/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 06/25/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 06/30/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/01/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/01/2020: The lower control limit for the spike recovery of the Laboratory Control Sample Duplicate (LCSD) was exceeded for one or more analyte. Precision is also outside limits. There were no detections of the analyte(s) in the associated field samples. The LCS and batch MS/MSD were within limits for these analytes. The analytes affected are flagged in the LCS Summary.

Method 8270D, 07/06/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/06/2020: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, R2005470-003: The control limits were exceeded for one or more surrogates in the sample(s). Since the exceedance may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and reanalyzed. The surrogates met control limits for the reanalysis. Since the results for the field samples were comparable for both determinations, the exceedance in the initial analysis was likely restricted to the surrogate recovery. Therefore, the results from the original analysis are reported and flagged.

Semivolatile GC:

Method 8081B, 07/01/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/01/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by

Date

07/14/2020

Volatiles by GC/MS:

Method 8260C, 07/01/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/01/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 07/02/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/02/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by

Date 07/14/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062420-SG-001				Lab ID: R2005470-002		
-----------------------------------------	--	--	--	-----------------------------	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Bis(2-ethylhexyl) Phthalate	1.7	J	0.91	9.1	ug/L	8270D

CLIENT ID: WG-9954-062420-SG-004				Lab ID: R2005470-005		
-----------------------------------------	--	--	--	-----------------------------	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	0.83	J	0.42	10	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005470

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005470-001	TB-9954-062420-SG-001	6/24/2020	0000
R2005470-002	WG-9954-062420-SG-001	6/24/2020	0910
R2005470-003	WG-9954-062420-SG-002	6/24/2020	0955
R2005470-004	WG-9954-062420-SG-003	6/24/2020	1030
R2005470-005	WG-9954-062420-SG-004	6/24/2020	1105
R2005470-006	WG-9954-062420-SG-005	6/24/2020	1150
R2005470-007	WG-9954-062420-SG-006	6/24/2020	1245
R2005470-008	WG-9954-062420-SG-007	6/24/2020	1335

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information

GLEN SPRINGS HOLDINGS INC	Report To: Kathy Willy
806 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2866	Project Name: LOVE CANAL ANNUAL GW
Email: kathy.willy@ghd.com	Project Number: 9954

Lab Information

Laboratory: ALS
Laboratory Location: 1565 JEFFERSON RD. 1565 JEFFERSON RD. BUILDING 300, SUITE 360 ROCHESTER, NY 14623
Laboratory Contact: BRADY KALKMAN
Requested Due Date: TAT: 10
QA/QC Requirements:

Event Information

ID#: LC ANNUALGW SAMPLING 2020-01-1
SSOW Ref#: 292-402-999-3100
Sampler Name: S GARDNER, D TYRAN

Valid Matrix Code
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Sample Identification

Sample Identification	Matrix Code	Date Collected	Time Collected	Pest/PCBs(None)	SVOC(none)	VOA(HCI)	Remarks
TB-9954-062420-SG-001	WG Q	06/24/2020	00:00	-	-	3	
WG-9954-062420-SG-001	WG	06/24/2020	09:10	2	2	3	
WG-9954-062420-SG-002	WG	06/24/2020	09:55	2	2	3	
WG-9954-062420-SG-003	WG	06/24/2020	10:30	2	2	3	
WG-9954-062420-SG-004	WG	06/24/2020	11:05	2	2	3	
WG-9954-062420-SG-005	WG	06/24/2020	11:50	2	2	3	
WG-9954-062420-SG-006	WG	06/24/2020	12:45	2	2	3	
WG-9954-062420-SG-007	WG	06/24/2020	13:35	2	2	3	
Total Bottles				14	14	24	Grand Total:52

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Shawn Gardner	6/24/20	1:50	[Signature]	6/24/20	11:00
AIRBILL#:							

R2005470

5

GHD Services Inc.
Love Canal: 292-402-002-3100





SR#

004, 005, 006, 007, 008, 009, 010,
011, 012, 013

T030477

Project Name: Love Canal:292-402-D02-3100		NUMBER OF CONTAINERS	7D	14D					
Project Number: 9954 Annual Long Term Monitoring	Report To Kathy Willy								
Company / Address GHD Services Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls NY, 14304									
Phone # 716-297-2180	FAX # 716-297-2265								
Sampler Signature	Sampler Printed Name								

[illegible]

Special Instructions/Comments:	Turnaround Requirements	Report Requirements	Invoice Information
	___ RUSH (SURCHARGES APPLY)	___ I. Results Only	P.O.# _____
	___ Standard (3 weeks)	___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)	Bill To: _____
	_____ REQUESTED FAX DATE	___ III. Results + QC and Calibration Summaries	_____
	_____ Requested Report Date	<u>X</u> IV. Data Validation Report with Raw Data	_____
		EData ___ Yes ___ No	_____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form

R2005470

5

GHD Services Inc.
Love Canal: 202-402-002-3100Project/Client GHI Folder Number _____Cooler received on 6/25/2020 by AE COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u> N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set NA

3. Temperature Readings Date: 6/25/2020 Time: 1122 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.8</u>	<u>1.8</u>	<u>2.4</u>				
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 6/25/2020 by AE on 6/25/2020 at 1130
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 6/25/2020 Time: 1451 by: AE

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: Client counsel, 047720-18MC

Explain all Discrepancies/ Other Comments:

headspace: 2 vials TB. - Hyde Park
3 vials TB. Love Canal

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter
Page 10 of 113



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005470

Sample Name: TB-9954-062420-SG-001
Lab Code: R2005470-001
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
KSERCU
KSERCU
KSERCU

Analyzed By
JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
KSERCU
KSERCU
KSERCU

Analyzed By
JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003.R01
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method
8270D

Extracted/Digested By
KSERCU

Analyzed By
JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005470

Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method

8081B

Extracted/Digested By

KSERCU

Analyzed By

JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005470

Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method

8082A
8260C
8270D

Extracted/Digested By

KSERCU

KSERCU

Analyzed By

BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008
Sample Matrix: Water

Date Collected: 06/24/20
Date Received: 06/25/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062420-SG-001
Lab Code: R2005470-001

Service Request: R2005470
Date Collected: 06/24/20 00:00
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 00:37	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 00:37	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 00:37	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 00:37	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 00:37	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 00:37	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 00:37	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 00:37	
2-Hexanone	10 U	10	0.20	1	07/01/20 00:37	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 00:37	
Acetone	10 U	10	5.0	1	07/01/20 00:37	
Benzene	5.0 U	5.0	0.20	1	07/01/20 00:37	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 00:37	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 00:37	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 00:37	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 00:37	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 00:37	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 00:37	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 00:37	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 00:37	
Chloromethane	5.0 U	5.0	0.28	1	07/01/20 00:37	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 00:37	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 00:37	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 00:37	
Styrene	5.0 U	5.0	0.20	1	07/01/20 00:37	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 00:37	
Toluene	5.0 U	5.0	0.20	1	07/01/20 00:37	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 00:37	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 00:37	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 00:37	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 00:37	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 00:37	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 00:37	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 00:37	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 00:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062420-SG-001
Lab Code: R2005470-001

Service Request: R2005470
Date Collected: 06/24/20 00:00
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/01/20 00:37	
Dibromofluoromethane	90	89 - 119	07/01/20 00:37	
Toluene-d8	92	87 - 121	07/01/20 00:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062420-SG-001
Lab Code: R2005470-001

Service Request: R2005470
Date Collected: 06/24/20 00:00
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 00:59	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 00:59	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 00:59	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 00:59	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 00:59	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 00:59	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 00:59	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 00:59	
2-Hexanone	10 U	10	0.20	1	07/01/20 00:59	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 00:59	
Acetone	10 U	10	5.0	1	07/01/20 00:59	
Benzene	5.0 U	5.0	0.20	1	07/01/20 00:59	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 00:59	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 00:59	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 00:59	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 00:59	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 00:59	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 00:59	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 00:59	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 00:59	
Chloromethane	5.0 U	5.0	0.28	1	07/01/20 00:59	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 00:59	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 00:59	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 00:59	
Styrene	5.0 U	5.0	0.20	1	07/01/20 00:59	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 00:59	
Toluene	5.0 U	5.0	0.20	1	07/01/20 00:59	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 00:59	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 00:59	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 00:59	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 00:59	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 00:59	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 00:59	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 00:59	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 00:59	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/01/20 00:59	
Dibromofluoromethane	92	89 - 119	07/01/20 00:59	
Toluene-d8	93	87 - 121	07/01/20 00:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 19:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 19:13	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 19:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 19:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 19:13	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 19:13	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 19:13	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 19:13	
2-Hexanone	10 U	10	0.20	1	07/02/20 19:13	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 19:13	
Acetone	10 U	10	5.0	1	07/02/20 19:13	
Benzene	5.0 U	5.0	0.20	1	07/02/20 19:13	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 19:13	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 19:13	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 19:13	
Carbon Disulfide	10 U	10	0.42	1	07/02/20 19:13	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 19:13	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 19:13	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 19:13	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 19:13	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 19:13	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 19:13	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 19:13	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 19:13	
Styrene	5.0 U	5.0	0.20	1	07/02/20 19:13	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 19:13	
Toluene	5.0 U	5.0	0.20	1	07/02/20 19:13	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 19:13	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 19:13	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 19:13	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 19:13	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 19:13	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 19:13	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 19:13	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 19:13	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	07/02/20 19:13	
Dibromofluoromethane	92	89 - 119	07/02/20 19:13	
Toluene-d8	94	87 - 121	07/02/20 19:13	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 19:35	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 19:35	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 19:35	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 19:35	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 19:35	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 19:35	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 19:35	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 19:35	
2-Hexanone	10 U	10	0.20	1	07/02/20 19:35	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 19:35	
Acetone	10 U	10	5.0	1	07/02/20 19:35	
Benzene	5.0 U	5.0	0.20	1	07/02/20 19:35	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 19:35	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 19:35	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 19:35	
Carbon Disulfide	10 U	10	0.42	1	07/02/20 19:35	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 19:35	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 19:35	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 19:35	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 19:35	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 19:35	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 19:35	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 19:35	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 19:35	
Styrene	5.0 U	5.0	0.20	1	07/02/20 19:35	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 19:35	
Toluene	5.0 U	5.0	0.20	1	07/02/20 19:35	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 19:35	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 19:35	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 19:35	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 19:35	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 19:35	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 19:35	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 19:35	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 19:35	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	07/02/20 19:35	
Dibromofluoromethane	94	89 - 119	07/02/20 19:35	
Toluene-d8	96	87 - 121	07/02/20 19:35	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 19:58	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 19:58	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 19:58	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 19:58	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 19:58	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 19:58	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 19:58	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 19:58	
2-Hexanone	10 U	10	0.20	1	07/02/20 19:58	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 19:58	
Acetone	10 U	10	5.0	1	07/02/20 19:58	
Benzene	5.0 U	5.0	0.20	1	07/02/20 19:58	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 19:58	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 19:58	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 19:58	
Carbon Disulfide	0.83 J	10	0.42	1	07/02/20 19:58	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 19:58	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 19:58	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 19:58	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 19:58	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 19:58	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 19:58	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 19:58	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 19:58	
Styrene	5.0 U	5.0	0.20	1	07/02/20 19:58	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 19:58	
Toluene	5.0 U	5.0	0.20	1	07/02/20 19:58	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 19:58	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 19:58	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 19:58	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 19:58	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 19:58	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 19:58	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 19:58	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 19:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/02/20 19:58	
Dibromofluoromethane	94	89 - 119	07/02/20 19:58	
Toluene-d8	95	87 - 121	07/02/20 19:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 02:27	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 02:27	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 02:27	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 02:27	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 02:27	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 02:27	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 02:27	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 02:27	
2-Hexanone	10 U	10	0.20	1	07/01/20 02:27	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 02:27	
Acetone	10 U	10	5.0	1	07/01/20 02:27	
Benzene	5.0 U	5.0	0.20	1	07/01/20 02:27	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 02:27	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 02:27	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 02:27	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 02:27	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 02:27	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 02:27	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 02:27	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 02:27	
Chloromethane	5.0 U	5.0	0.28	1	07/01/20 02:27	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 02:27	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 02:27	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 02:27	
Styrene	5.0 U	5.0	0.20	1	07/01/20 02:27	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 02:27	
Toluene	5.0 U	5.0	0.20	1	07/01/20 02:27	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 02:27	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 02:27	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 02:27	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 02:27	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 02:27	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 02:27	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 02:27	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 02:27	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/01/20 02:27	
Dibromofluoromethane	93	89 - 119	07/01/20 02:27	
Toluene-d8	94	87 - 121	07/01/20 02:27	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 02:50	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 02:50	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 02:50	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 02:50	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 02:50	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 02:50	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 02:50	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 02:50	
2-Hexanone	10 U	10	0.20	1	07/01/20 02:50	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 02:50	
Acetone	10 U	10	5.0	1	07/01/20 02:50	
Benzene	5.0 U	5.0	0.20	1	07/01/20 02:50	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 02:50	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 02:50	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 02:50	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 02:50	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 02:50	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 02:50	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 02:50	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 02:50	
Chloromethane	5.0 U	5.0	0.28	1	07/01/20 02:50	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 02:50	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 02:50	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 02:50	
Styrene	5.0 U	5.0	0.20	1	07/01/20 02:50	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 02:50	
Toluene	5.0 U	5.0	0.20	1	07/01/20 02:50	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 02:50	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 02:50	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 02:50	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 02:50	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 02:50	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 02:50	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 02:50	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 02:50	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	07/01/20 02:50	
Dibromofluoromethane	89	89 - 119	07/01/20 02:50	
Toluene-d8	92	87 - 121	07/01/20 02:50	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 03:12	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 03:12	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 03:12	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 03:12	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 03:12	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 03:12	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 03:12	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 03:12	
2-Hexanone	10 U	10	0.20	1	07/01/20 03:12	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 03:12	
Acetone	10 U	10	5.0	1	07/01/20 03:12	
Benzene	5.0 U	5.0	0.20	1	07/01/20 03:12	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 03:12	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 03:12	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 03:12	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 03:12	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 03:12	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 03:12	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 03:12	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 03:12	
Chloromethane	5.0 U	5.0	0.28	1	07/01/20 03:12	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 03:12	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 03:12	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 03:12	
Styrene	5.0 U	5.0	0.20	1	07/01/20 03:12	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 03:12	
Toluene	5.0 U	5.0	0.20	1	07/01/20 03:12	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 03:12	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 03:12	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 03:12	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 03:12	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 03:12	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 03:12	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 03:12	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 03:12	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/01/20 03:12	
Dibromofluoromethane	90	89 - 119	07/01/20 03:12	
Toluene-d8	92	87 - 121	07/01/20 03:12	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	06/30/20 18:29	6/29/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	06/30/20 18:29	6/29/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
2,4-Dinitrophenol	45 U	45	19	1	06/30/20 18:29	6/29/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	06/30/20 18:29	6/29/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	06/30/20 18:29	6/29/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
2-Methylphenol	9.1 U	9.1	0.91	1	06/30/20 18:29	6/29/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	06/30/20 18:29	6/29/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	06/30/20 18:29	6/29/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	06/30/20 18:29	6/29/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/30/20 18:29	6/29/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	06/30/20 18:29	6/29/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	06/30/20 18:29	6/29/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	06/30/20 18:29	6/29/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	06/30/20 18:29	6/29/20	
4-Nitrophenol	45 U	45	5.8	1	06/30/20 18:29	6/29/20	
Acenaphthene	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
Acenaphthylene	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
Anthracene	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	06/30/20 18:29	6/29/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	06/30/20 18:29	6/29/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
Benzoic Acid	91 U	91	33	1	06/30/20 18:29	6/29/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	06/30/20 18:29	6/29/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	06/30/20 18:29	6/29/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
Bis(2-ethylhexyl) Phthalate	1.7 J	9.1	0.91	1	06/30/20 18:29	6/29/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
Chrysene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	06/30/20 18:29	6/29/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	06/30/20 18:29	6/29/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	06/30/20 18:29	6/29/20	
Dibenzofuran	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	06/30/20 18:29	6/29/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
Fluoranthene	9.1 U	9.1	1.4	1	06/30/20 18:29	6/29/20	
Fluorene	9.1 U	9.1	1.2	1	06/30/20 18:29	6/29/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	06/30/20 18:29	6/29/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	06/30/20 18:29	6/29/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	06/30/20 18:29	6/29/20	
Hexachloroethane	9.1 U	9.1	0.96	1	06/30/20 18:29	6/29/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	06/30/20 18:29	6/29/20	
Isophorone	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	06/30/20 18:29	6/29/20	
Naphthalene	9.1 U	9.1	1.1	1	06/30/20 18:29	6/29/20	
Nitrobenzene	9.1 U	9.1	1.4	1	06/30/20 18:29	6/29/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	06/30/20 18:29	6/29/20	
Phenanthrene	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	
Phenol	9.1 U	9.1	0.91	1	06/30/20 18:29	6/29/20	
Pyrene	9.1 U	9.1	1.3	1	06/30/20 18:29	6/29/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	73	35 - 141	06/30/20 18:29	
2-Fluorobiphenyl	53	31 - 118	06/30/20 18:29	
2-Fluorophenol	35	10 - 105	06/30/20 18:29	
Nitrobenzene-d5	43	31 - 110	06/30/20 18:29	
Phenol-d6	24	10 - 107	06/30/20 18:29	
p-Terphenyl-d14	84	10 - 165	06/30/20 18:29	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
1000126-80-6	Azacyclohexan-2-carboxylic acid, 1	8.33	5.1	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	06/30/20 18:57	6/29/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	06/30/20 18:57	6/29/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
2,4-Dinitrophenol	45 U	45	19	1	06/30/20 18:57	6/29/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	06/30/20 18:57	6/29/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	06/30/20 18:57	6/29/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
2-Methylphenol	9.1 U	9.1	0.91	1	06/30/20 18:57	6/29/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	06/30/20 18:57	6/29/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	06/30/20 18:57	6/29/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	06/30/20 18:57	6/29/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/30/20 18:57	6/29/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	06/30/20 18:57	6/29/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	06/30/20 18:57	6/29/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	06/30/20 18:57	6/29/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	06/30/20 18:57	6/29/20	
4-Nitrophenol	45 U	45	5.8	1	06/30/20 18:57	6/29/20	
Acenaphthene	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
Acenaphthylene	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
Anthracene	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	06/30/20 18:57	6/29/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	06/30/20 18:57	6/29/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
Benzoic Acid	91 U	91	33	1	06/30/20 18:57	6/29/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	06/30/20 18:57	6/29/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	06/30/20 18:57	6/29/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	06/30/20 18:57	6/29/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
Chrysene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	06/30/20 18:57	6/29/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	06/30/20 18:57	6/29/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	06/30/20 18:57	6/29/20	
Dibenzofuran	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	06/30/20 18:57	6/29/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
Fluoranthene	9.1 U	9.1	1.4	1	06/30/20 18:57	6/29/20	
Fluorene	9.1 U	9.1	1.2	1	06/30/20 18:57	6/29/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	06/30/20 18:57	6/29/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	06/30/20 18:57	6/29/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	06/30/20 18:57	6/29/20	
Hexachloroethane	9.1 U	9.1	0.96	1	06/30/20 18:57	6/29/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	06/30/20 18:57	6/29/20	
Isophorone	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	06/30/20 18:57	6/29/20	
Naphthalene	9.1 U	9.1	1.1	1	06/30/20 18:57	6/29/20	
Nitrobenzene	9.1 U	9.1	1.4	1	06/30/20 18:57	6/29/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	06/30/20 18:57	6/29/20	
Phenanthrene	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	
Phenol	9.1 U	9.1	0.91	1	06/30/20 18:57	6/29/20	
Pyrene	9.1 U	9.1	1.3	1	06/30/20 18:57	6/29/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	27 *	35 - 141	06/30/20 18:57	*
2-Fluorobiphenyl	26 *	31 - 118	06/30/20 18:57	*
2-Fluorophenol	18	10 - 105	06/30/20 18:57	
Nitrobenzene-d5	22 *	31 - 110	06/30/20 18:57	*
Phenol-d6	12	10 - 107	06/30/20 18:57	
p-Terphenyl-d14	35	10 - 165	06/30/20 18:57	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 16:22	7/2/20	*
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 16:22	7/2/20	*
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 16:22	7/2/20	*
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 16:22	7/2/20	*
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 16:22	7/2/20	*
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 16:22	7/2/20	*
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 16:22	7/2/20	*
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 16:22	7/2/20	*
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 16:22	7/2/20	*
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 16:22	7/2/20	*
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 16:22	7/2/20	*
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 16:22	7/2/20	*
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 16:22	7/2/20	*
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 16:22	7/2/20	*
4-Nitrophenol	45 U	45	5.8	1	07/06/20 16:22	7/2/20	*
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
Anthracene	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 16:22	7/2/20	*
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 16:22	7/2/20	*
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
Benzoic Acid	91 U	91	33	1	07/06/20 16:22	7/2/20	*
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 16:22	7/2/20	*
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 16:22	7/2/20	*
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 16:22	7/2/20	*
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
Chrysene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 16:22	7/2/20	*
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 16:22	7/2/20	*
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 16:22	7/2/20	*
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 16:22	7/2/20	*
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 16:22	7/2/20	*
Fluorene	9.1 U	9.1	1.2	1	07/06/20 16:22	7/2/20	*
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 16:22	7/2/20	*
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 16:22	7/2/20	*
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 16:22	7/2/20	*
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 16:22	7/2/20	*
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 16:22	7/2/20	*
Isophorone	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 16:22	7/2/20	*
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 16:22	7/2/20	*
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 16:22	7/2/20	*
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 16:22	7/2/20	*
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*
Phenol	9.1 U	9.1	0.91	1	07/06/20 16:22	7/2/20	*
Pyrene	9.1 U	9.1	1.3	1	07/06/20 16:22	7/2/20	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	105	35 - 141	07/06/20 16:22	
2-Fluorobiphenyl	79	31 - 118	07/06/20 16:22	
2-Fluorophenol	51	10 - 105	07/06/20 16:22	
Nitrobenzene-d5	85	31 - 110	07/06/20 16:22	
Phenol-d6	32	10 - 107	07/06/20 16:22	
p-Terphenyl-d14	56	10 - 165	07/06/20 16:22	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	12.07	4.7	J
	unknown hydrocarbon	12.69	4.9	J
	unknown hydrocarbon	13.36	6.5	J
	unknown hydrocarbon	14.07	4.3	J
	unknown	14.84	4.1	J
	unknown	15.65	3.7	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	06/30/20 19:26	6/29/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	06/30/20 19:26	6/29/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
2,4-Dinitrophenol	45 U	45	19	1	06/30/20 19:26	6/29/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	06/30/20 19:26	6/29/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	06/30/20 19:26	6/29/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
2-Methylphenol	9.1 U	9.1	0.91	1	06/30/20 19:26	6/29/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	06/30/20 19:26	6/29/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	06/30/20 19:26	6/29/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	06/30/20 19:26	6/29/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/30/20 19:26	6/29/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	06/30/20 19:26	6/29/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	06/30/20 19:26	6/29/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	06/30/20 19:26	6/29/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	06/30/20 19:26	6/29/20	
4-Nitrophenol	45 U	45	5.8	1	06/30/20 19:26	6/29/20	
Acenaphthene	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
Acenaphthylene	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
Anthracene	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	06/30/20 19:26	6/29/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	06/30/20 19:26	6/29/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
Benzoic Acid	91 U	91	33	1	06/30/20 19:26	6/29/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	06/30/20 19:26	6/29/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	06/30/20 19:26	6/29/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	06/30/20 19:26	6/29/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
Chrysene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	06/30/20 19:26	6/29/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	06/30/20 19:26	6/29/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	06/30/20 19:26	6/29/20	
Dibenzofuran	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	06/30/20 19:26	6/29/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
Fluoranthene	9.1 U	9.1	1.4	1	06/30/20 19:26	6/29/20	
Fluorene	9.1 U	9.1	1.2	1	06/30/20 19:26	6/29/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	06/30/20 19:26	6/29/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	06/30/20 19:26	6/29/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	06/30/20 19:26	6/29/20	
Hexachloroethane	9.1 U	9.1	0.96	1	06/30/20 19:26	6/29/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	06/30/20 19:26	6/29/20	
Isophorone	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	06/30/20 19:26	6/29/20	
Naphthalene	9.1 U	9.1	1.1	1	06/30/20 19:26	6/29/20	
Nitrobenzene	9.1 U	9.1	1.4	1	06/30/20 19:26	6/29/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	06/30/20 19:26	6/29/20	
Phenanthrene	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	
Phenol	9.1 U	9.1	0.91	1	06/30/20 19:26	6/29/20	
Pyrene	9.1 U	9.1	1.3	1	06/30/20 19:26	6/29/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	06/30/20 19:26	
2-Fluorobiphenyl	71	31 - 118	06/30/20 19:26	
2-Fluorophenol	46	10 - 105	06/30/20 19:26	
Nitrobenzene-d5	69	31 - 110	06/30/20 19:26	
Phenol-d6	31	10 - 107	06/30/20 19:26	
p-Terphenyl-d14	97	10 - 165	06/30/20 19:26	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	13.16	3.7	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	06/30/20 19:54	6/29/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	06/30/20 19:54	6/29/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
2,4-Dinitrophenol	45 U	45	19	1	06/30/20 19:54	6/29/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	06/30/20 19:54	6/29/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	06/30/20 19:54	6/29/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
2-Methylphenol	9.1 U	9.1	0.91	1	06/30/20 19:54	6/29/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	06/30/20 19:54	6/29/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	06/30/20 19:54	6/29/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	06/30/20 19:54	6/29/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/30/20 19:54	6/29/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	06/30/20 19:54	6/29/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	06/30/20 19:54	6/29/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	06/30/20 19:54	6/29/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	06/30/20 19:54	6/29/20	
4-Nitrophenol	45 U	45	5.8	1	06/30/20 19:54	6/29/20	
Acenaphthene	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
Acenaphthylene	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
Anthracene	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	06/30/20 19:54	6/29/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	06/30/20 19:54	6/29/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
Benzoic Acid	91 U	91	33	1	06/30/20 19:54	6/29/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	06/30/20 19:54	6/29/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	06/30/20 19:54	6/29/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	06/30/20 19:54	6/29/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
Chrysene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	06/30/20 19:54	6/29/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	06/30/20 19:54	6/29/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	06/30/20 19:54	6/29/20	
Dibenzofuran	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	06/30/20 19:54	6/29/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
Fluoranthene	9.1 U	9.1	1.4	1	06/30/20 19:54	6/29/20	
Fluorene	9.1 U	9.1	1.2	1	06/30/20 19:54	6/29/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	06/30/20 19:54	6/29/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	06/30/20 19:54	6/29/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	06/30/20 19:54	6/29/20	
Hexachloroethane	9.1 U	9.1	0.96	1	06/30/20 19:54	6/29/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	06/30/20 19:54	6/29/20	
Isophorone	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	06/30/20 19:54	6/29/20	
Naphthalene	9.1 U	9.1	1.1	1	06/30/20 19:54	6/29/20	
Nitrobenzene	9.1 U	9.1	1.4	1	06/30/20 19:54	6/29/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	06/30/20 19:54	6/29/20	
Phenanthrene	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	
Phenol	9.1 U	9.1	0.91	1	06/30/20 19:54	6/29/20	
Pyrene	9.1 U	9.1	1.3	1	06/30/20 19:54	6/29/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	35 - 141	06/30/20 19:54	
2-Fluorobiphenyl	58	31 - 118	06/30/20 19:54	
2-Fluorophenol	34	10 - 105	06/30/20 19:54	
Nitrobenzene-d5	51	31 - 110	06/30/20 19:54	
Phenol-d6	23	10 - 107	06/30/20 19:54	
p-Terphenyl-d14	85	10 - 165	06/30/20 19:54	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	06/30/20 20:23	6/29/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	06/30/20 20:23	6/29/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
2,4-Dinitrophenol	45 U	45	19	1	06/30/20 20:23	6/29/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	06/30/20 20:23	6/29/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	06/30/20 20:23	6/29/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
2-Methylphenol	9.1 U	9.1	0.91	1	06/30/20 20:23	6/29/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	06/30/20 20:23	6/29/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	06/30/20 20:23	6/29/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	06/30/20 20:23	6/29/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/30/20 20:23	6/29/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	06/30/20 20:23	6/29/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	06/30/20 20:23	6/29/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	06/30/20 20:23	6/29/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	06/30/20 20:23	6/29/20	
4-Nitrophenol	45 U	45	5.8	1	06/30/20 20:23	6/29/20	
Acenaphthene	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
Acenaphthylene	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
Anthracene	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	06/30/20 20:23	6/29/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	06/30/20 20:23	6/29/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
Benzoic Acid	91 U	91	33	1	06/30/20 20:23	6/29/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	06/30/20 20:23	6/29/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	06/30/20 20:23	6/29/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	06/30/20 20:23	6/29/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
Chrysene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	06/30/20 20:23	6/29/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	06/30/20 20:23	6/29/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	06/30/20 20:23	6/29/20	
Dibenzofuran	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	06/30/20 20:23	6/29/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
Fluoranthene	9.1 U	9.1	1.4	1	06/30/20 20:23	6/29/20	
Fluorene	9.1 U	9.1	1.2	1	06/30/20 20:23	6/29/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	06/30/20 20:23	6/29/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	06/30/20 20:23	6/29/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	06/30/20 20:23	6/29/20	
Hexachloroethane	9.1 U	9.1	0.96	1	06/30/20 20:23	6/29/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	06/30/20 20:23	6/29/20	
Isophorone	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	06/30/20 20:23	6/29/20	
Naphthalene	9.1 U	9.1	1.1	1	06/30/20 20:23	6/29/20	
Nitrobenzene	9.1 U	9.1	1.4	1	06/30/20 20:23	6/29/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	06/30/20 20:23	6/29/20	
Phenanthrene	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	
Phenol	9.1 U	9.1	0.91	1	06/30/20 20:23	6/29/20	
Pyrene	9.1 U	9.1	1.3	1	06/30/20 20:23	6/29/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	81	35 - 141	06/30/20 20:23	
2-Fluorobiphenyl	77	31 - 118	06/30/20 20:23	
2-Fluorophenol	41	10 - 105	06/30/20 20:23	
Nitrobenzene-d5	65	31 - 110	06/30/20 20:23	
Phenol-d6	29	10 - 107	06/30/20 20:23	
p-Terphenyl-d14	84	10 - 165	06/30/20 20:23	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 18:26	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 18:26	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 18:26	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 18:26	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 18:26	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 18:26	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 18:26	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 18:26	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 18:26	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 18:26	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 18:26	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 18:26	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 18:26	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 18:26	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 18:26	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 18:26	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 18:26	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 18:26	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 18:26	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 18:26	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 18:26	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 18:26	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 18:26	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 18:26	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 18:26	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 18:26	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 18:26	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 18:26	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 18:26	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 18:26	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 18:26	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 18:26	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 18:26	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 18:26	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 18:26	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 18:26	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 18:26	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 18:26	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	71	35 - 141	07/01/20 18:26	
2-Fluorobiphenyl	59	31 - 118	07/01/20 18:26	
2-Fluorophenol	40	10 - 105	07/01/20 18:26	
Nitrobenzene-d5	58	31 - 110	07/01/20 18:26	
Phenol-d6	27	10 - 107	07/01/20 18:26	
p-Terphenyl-d14	82	10 - 165	07/01/20 18:26	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 18:54	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 18:54	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 18:54	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 18:54	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 18:54	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 18:54	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 18:54	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 18:54	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 18:54	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 18:54	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 18:54	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 18:54	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 18:54	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 18:54	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 18:54	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 18:54	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 18:54	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 18:54	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 18:54	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 18:54	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 18:54	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 18:54	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 18:54	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 18:54	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 18:54	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 18:54	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 18:54	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 18:54	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 18:54	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 18:54	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 18:54	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 18:54	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 18:54	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 18:54	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 18:54	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 18:54	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 18:54	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 18:54	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	35 - 141	07/01/20 18:54	
2-Fluorobiphenyl	62	31 - 118	07/01/20 18:54	
2-Fluorophenol	41	10 - 105	07/01/20 18:54	
Nitrobenzene-d5	60	31 - 110	07/01/20 18:54	
Phenol-d6	30	10 - 107	07/01/20 18:54	
p-Terphenyl-d14	91	10 - 165	07/01/20 18:54	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	6.1	J
	unknown hydrocarbon	11.89	10	J
	unknown hydrocarbon	12.48	15	J
	unknown hydrocarbon	13.13	15	J
	unknown hydrocarbon	13.83	12	J
	unknown hydrocarbon	14.58	11	J
	unknown hydrocarbon	15.37	7.8	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	16.11	6.3	J



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 18:12	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 18:12	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	19	10 - 164	07/01/20 18:12	
Tetrachloro-m-xylene	60	10 - 147	07/01/20 18:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 18:31	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 18:31	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 164	07/01/20 18:31	
Tetrachloro-m-xylene	51	10 - 147	07/01/20 18:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 18:50	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 18:50	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10 - 164	07/01/20 18:50	
Tetrachloro-m-xylene	50	10 - 147	07/01/20 18:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 19:09	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 19:09	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10 - 164	07/01/20 19:09	
Tetrachloro-m-xylene	55	10 - 147	07/01/20 19:09	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 19:48	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 19:48	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	20	10 - 164	07/01/20 19:48	
Tetrachloro-m-xylene	57	10 - 147	07/01/20 19:48	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 20:07	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 20:07	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	35	10 - 164	07/01/20 20:07	
Tetrachloro-m-xylene	49	10 - 147	07/01/20 20:07	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/01/20 20:26	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/01/20 20:26	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	28	10 - 164	07/01/20 20:26	
Tetrachloro-m-xylene	56	10 - 147	07/01/20 20:26	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-001
Lab Code: R2005470-002

Service Request: R2005470
Date Collected: 06/24/20 09:10
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 19:08	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 19:08	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 19:08	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 19:08	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 19:08	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 19:08	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 19:08	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	21	10 - 152	07/01/20 19:08	
Tetrachloro-m-xylene	53	14 - 129	07/01/20 19:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-002
Lab Code: R2005470-003

Service Request: R2005470
Date Collected: 06/24/20 09:55
Date Received: 06/25/20 11:00

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 19:28	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 19:28	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 19:28	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 19:28	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 19:28	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 19:28	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 19:28	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 152	07/01/20 19:28	
Tetrachloro-m-xylene	43	14 - 129	07/01/20 19:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-003
Lab Code: R2005470-004

Service Request: R2005470
Date Collected: 06/24/20 10:30
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 19:48	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 19:48	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 19:48	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 19:48	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 19:48	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 19:48	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 19:48	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 152	07/01/20 19:48	
Tetrachloro-m-xylene	44	14 - 129	07/01/20 19:48	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-004
Lab Code: R2005470-005

Service Request: R2005470
Date Collected: 06/24/20 11:05
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 20:08	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 20:08	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 20:08	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 20:08	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 20:08	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 20:08	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 20:08	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 152	07/01/20 20:08	
Tetrachloro-m-xylene	47	14 - 129	07/01/20 20:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-005
Lab Code: R2005470-006

Service Request: R2005470
Date Collected: 06/24/20 11:50
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 20:29	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 20:29	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 20:29	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 20:29	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 20:29	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 20:29	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 20:29	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	20	10 - 152	07/01/20 20:29	
Tetrachloro-m-xylene	49	14 - 129	07/01/20 20:29	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-006
Lab Code: R2005470-007

Service Request: R2005470
Date Collected: 06/24/20 12:45
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 21:10	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 21:10	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 21:10	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 21:10	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 21:10	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 21:10	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 21:10	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	33	10 - 152	07/01/20 21:10	
Tetrachloro-m-xylene	42	14 - 129	07/01/20 21:10	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062420-SG-007
Lab Code: R2005470-008

Service Request: R2005470
Date Collected: 06/24/20 13:35
Date Received: 06/25/20 11:00
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 21:30	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 21:30	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 21:30	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 21:30	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 21:30	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 21:30	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 21:30	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	10 - 152	07/01/20 21:30	
Tetrachloro-m-xylene	49	14 - 129	07/01/20 21:30	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005470

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
TB-9954-062420-SG-001	R2005470-001	90	90	92
WG-9954-062420-SG-001	R2005470-002	90	92	93
WG-9954-062420-SG-002	R2005470-003	89	92	94
WG-9954-062420-SG-003	R2005470-004	91	94	96
WG-9954-062420-SG-004	R2005470-005	90	94	95
WG-9954-062420-SG-005	R2005470-006	93	93	94
WG-9954-062420-SG-006	R2005470-007	89	89	92
WG-9954-062420-SG-007	R2005470-008	90	90	92
Method Blank	RQ2007077-06	92	95	97
Method Blank	RQ2007141-04	90	89	91
Lab Control Sample	RQ2007077-04	94	98	97
Lab Control Sample	RQ2007141-03	95	95	93

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007077-06

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 13:35	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 13:35	
2-Hexanone	10 U	10	0.20	1	07/02/20 13:35	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 13:35	
Acetone	10 U	10	5.0	1	07/02/20 13:35	
Benzene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 13:35	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 13:35	
Carbon Disulfide	10 U	10	0.42	1	07/02/20 13:35	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 13:35	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 13:35	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 13:35	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 13:35	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 13:35	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Styrene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 13:35	
Toluene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 13:35	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 13:35	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 13:35	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 13:35	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 13:35	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 13:35	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 13:35	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 13:35	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007077-06

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	07/02/20 13:35	
Dibromofluoromethane	95	89 - 119	07/02/20 13:35	
Toluene-d8	97	87 - 121	07/02/20 13:35	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007077-06

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/20 23:08	
2-Butanone (MEK)	10 U	10	0.78	1	06/30/20 23:08	
2-Hexanone	10 U	10	0.20	1	06/30/20 23:08	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/20 23:08	
Acetone	10 U	10	5.0	1	06/30/20 23:08	
Benzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
Bromoform	5.0 U	5.0	0.25	1	06/30/20 23:08	
Bromomethane	5.0 U	5.0	0.70	1	06/30/20 23:08	
Carbon Disulfide	10 U	10	0.42	1	06/30/20 23:08	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/20 23:08	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Chloroethane	5.0 U	5.0	0.23	1	06/30/20 23:08	
Chloroform	5.0 U	5.0	0.24	1	06/30/20 23:08	
Chloromethane	5.0 U	5.0	0.28	1	06/30/20 23:08	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/20 23:08	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Styrene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/20 23:08	
Toluene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/20 23:08	
Vinyl Acetate	10 U	10	1.1	1	06/30/20 23:08	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/20 23:08	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/20 23:08	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/20 23:08	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/20 23:08	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/20 23:08	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/20 23:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/30/20 23:08	
Dibromofluoromethane	89	89 - 119	06/30/20 23:08	
Toluene-d8	91	87 - 121	06/30/20 23:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/02/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007077-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.5	20.0	113	75-125
1,1,2,2-Tetrachloroethane	8260C	28.8	20.0	144 *	78-126
1,1,2-Trichloroethane	8260C	21.8	20.0	109	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	23.3	20.0	117	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.1	20.0	105	71-118
1,2-Dichloroethane	8260C	20.4	20.0	102	71-127
1,2-Dichloropropane	8260C	22.9	20.0	114	80-119
2-Butanone (MEK)	8260C	23.7	20.0	118	61-137
2-Hexanone	8260C	22.8	20.0	114	63-124
4-Methyl-2-pentanone	8260C	22.8	20.0	114	66-124
Acetone	8260C	25.8	20.0	129	40-161
Benzene	8260C	21.7	20.0	109	79-119
Bromodichloromethane	8260C	21.7	20.0	109	81-123
Bromoform	8260C	21.9	20.0	110	65-146
Bromomethane	8260C	17.7	20.0	89	42-166
Carbon Disulfide	8260C	21.0	20.0	105	66-128
Carbon Tetrachloride	8260C	20.4	20.0	102	70-127
Chlorobenzene	8260C	21.4	20.0	107	80-121
Chloroethane	8260C	22.3	20.0	112	62-131
Chloroform	8260C	22.2	20.0	111	79-120
Chloromethane	8260C	22.1	20.0	110	65-135
Dibromochloromethane	8260C	22.5	20.0	112	72-128
Dichloromethane	8260C	21.8	20.0	109	73-122
Ethylbenzene	8260C	22.1	20.0	110	76-120
Styrene	8260C	22.0	20.0	110	80-124
Tetrachloroethene (PCE)	8260C	20.4	20.0	102	72-125
Toluene	8260C	21.8	20.0	109	79-119
Trichloroethene (TCE)	8260C	17.7	20.0	89	74-122
Vinyl Acetate	8260C	30.7	20.0	154	52-174
Vinyl Chloride	8260C	23.1	20.0	116	74-159
cis-1,2-Dichloroethene	8260C	22.8	20.0	114	80-121
cis-1,3-Dichloropropene	8260C	22.4	20.0	112	77-122
trans-1,2-Dichloroethene	8260C	21.9	20.0	110	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/02/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007077-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	23.4	20.0	117	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 06/30/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007141-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.6	20.0	108	75-125
1,1,2,2-Tetrachloroethane	8260C	26.2	20.0	131 *	78-126
1,1,2-Trichloroethane	8260C	22.0	20.0	110	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.8	20.0	104	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.3	20.0	101	71-118
1,2-Dichloroethane	8260C	19.5	20.0	98	71-127
1,2-Dichloropropane	8260C	21.2	20.0	106	80-119
2-Butanone (MEK)	8260C	16.9	20.0	85	61-137
2-Hexanone	8260C	17.3	20.0	87	63-124
4-Methyl-2-pentanone	8260C	17.2	20.0	86	66-124
Acetone	8260C	20.1	20.0	101	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromodichloromethane	8260C	21.4	20.0	107	81-123
Bromoform	8260C	22.5	20.0	113	65-146
Bromomethane	8260C	14.4	20.0	72	42-166
Carbon Disulfide	8260C	17.2	20.0	86	66-128
Carbon Tetrachloride	8260C	21.4	20.0	107	70-127
Chlorobenzene	8260C	21.9	20.0	109	80-121
Chloroethane	8260C	16.2	20.0	81	62-131
Chloroform	8260C	21.1	20.0	105	79-120
Chloromethane	8260C	17.5	20.0	87	65-135
Dibromochloromethane	8260C	23.1	20.0	116	72-128
Dichloromethane	8260C	20.7	20.0	103	73-122
Ethylbenzene	8260C	22.5	20.0	113	76-120
Styrene	8260C	22.5	20.0	112	80-124
Tetrachloroethene (PCE)	8260C	21.6	20.0	108	72-125
Toluene	8260C	21.5	20.0	107	79-119
Trichloroethene (TCE)	8260C	18.3	20.0	91	74-122
Vinyl Acetate	8260C	23.8	20.0	119	52-174
Vinyl Chloride	8260C	17.0	20.0	85	74-159
cis-1,2-Dichloroethene	8260C	22.1	20.0	111	80-121
cis-1,3-Dichloropropene	8260C	21.4	20.0	107	77-122
trans-1,2-Dichloroethene	8260C	21.1	20.0	105	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 06/30/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007141-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	21.6	20.0	108	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005470

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-062420-SG-001	R2005470-002	73	53	35
WG-9954-062420-SG-002	R2005470-003	27*	26*	18
WG-9954-062420-SG-002 RE	R2005470-003	105	79	51
WG-9954-062420-SG-003	R2005470-004	82	71	46
WG-9954-062420-SG-004	R2005470-005	68	58	34
WG-9954-062420-SG-005	R2005470-006	81	77	41
WG-9954-062420-SG-006	R2005470-007	71	59	40
WG-9954-062420-SG-007	R2005470-008	85	62	41
Method Blank	RQ2006888-01	74	59	45
Method Blank	RQ2006968-03	78	71	44
Method Blank	RQ2007073-03	101	71	48
Lab Control Sample Duplicate	RQ2006888-02	91	76	48
Lab Control Sample Lab	RQ2006888-03	84	81	50
Control Sample	RQ2006968-04	100	80	56
Duplicate Lab Control Sample	RQ2006968-05	64	54	39
Lab Control Sample	RQ2007073-04	115	78	47
Duplicate Lab Control Sample	RQ2007073-05	103	67	47

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005470

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-062420-SG-001	R2005470-002	43	24	84
WG-9954-062420-SG-002	R2005470-003	22*	12	35
WG-9954-062420-SG-002 RE	R2005470-003	85	32	56
WG-9954-062420-SG-003	R2005470-004	69	31	97
WG-9954-062420-SG-004	R2005470-005	51	23	85
WG-9954-062420-SG-005	R2005470-006	65	29	84
WG-9954-062420-SG-006	R2005470-007	58	27	82
WG-9954-062420-SG-007	R2005470-008	60	30	91
Method Blank	RQ2006888-01	63	33	104
Method Blank	RQ2006968-03	65	31	95
Method Blank	RQ2007073-03	69	35	66
Lab Control Sample Duplicate	RQ2006888-02	67	35	105
Lab Control Sample Lab	RQ2006888-03	68	35	108
Control Sample	RQ2006968-04	85	41	104
Duplicate Lab Control Sample	RQ2006968-05	54	29	78
Lab Control Sample	RQ2007073-04	80	34	58
Duplicate Lab Control Sample	RQ2007073-05	66	34	59

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006888-01

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
2,4-Dichlorophenol	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
2,4-Dimethylphenol	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
2,4-Dinitrophenol	50 U	50	20	1	06/30/20 14:46	6/29/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/30/20 14:46	6/29/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
2-Chloronaphthalene	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
2-Chlorophenol	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
2-Methylnaphthalene	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
2-Methylphenol	10 U	10	1.0	1	06/30/20 14:46	6/29/20	
2-Nitroaniline	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
2-Nitrophenol	10 U	10	1.5	1	06/30/20 14:46	6/29/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
3-Nitroaniline	10 U	10	2.5	1	06/30/20 14:46	6/29/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	06/30/20 14:46	6/29/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/30/20 14:46	6/29/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
4-Chloroaniline	10 U	10	1.0	1	06/30/20 14:46	6/29/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/30/20 14:46	6/29/20	
4-Nitroaniline	10 U	10	2.7	1	06/30/20 14:46	6/29/20	
4-Nitrophenol	50 U	50	6.4	1	06/30/20 14:46	6/29/20	
Acenaphthene	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
Acenaphthylene	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
Anthracene	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
Benz(a)anthracene	10 U	10	1.6	1	06/30/20 14:46	6/29/20	
Benzo(a)pyrene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/30/20 14:46	6/29/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
Benzoic Acid	100 U	100	36	1	06/30/20 14:46	6/29/20	
Benzyl Alcohol	10 U	10	1.6	1	06/30/20 14:46	6/29/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/30/20 14:46	6/29/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	06/30/20 14:46	6/29/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
Chrysene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006888-01

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	06/30/20 14:46	6/29/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/30/20 14:46	6/29/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
Dibenzofuran	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
Diethyl Phthalate	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
Dimethyl Phthalate	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
Fluoranthene	10 U	10	1.5	1	06/30/20 14:46	6/29/20	
Fluorene	10 U	10	1.3	1	06/30/20 14:46	6/29/20	
Hexachlorobenzene	10 U	10	1.6	1	06/30/20 14:46	6/29/20	
Hexachlorobutadiene	10 U	10	1.0	1	06/30/20 14:46	6/29/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/30/20 14:46	6/29/20	
Hexachloroethane	10 U	10	1.1	1	06/30/20 14:46	6/29/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/30/20 14:46	6/29/20	
Isophorone	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/30/20 14:46	6/29/20	
Naphthalene	10 U	10	1.2	1	06/30/20 14:46	6/29/20	
Nitrobenzene	10 U	10	1.5	1	06/30/20 14:46	6/29/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	06/30/20 14:46	6/29/20	
Phenanthrene	10 U	10	1.4	1	06/30/20 14:46	6/29/20	
Phenol	10 U	10	1.0	1	06/30/20 14:46	6/29/20	
Pyrene	10 U	10	1.5	1	06/30/20 14:46	6/29/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	74	35 - 141	06/30/20 14:46	
2-Fluorobiphenyl	59	31 - 118	06/30/20 14:46	
2-Fluorophenol	45	10 - 105	06/30/20 14:46	
Nitrobenzene-d5	63	31 - 110	06/30/20 14:46	
Phenol-d6	33	10 - 107	06/30/20 14:46	
p-Terphenyl-d14	104	10 - 165	06/30/20 14:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.37	4.9	J
	unknown hydrocarbon	11.92	7.5	J
	unknown hydrocarbon	12.51	11	J
	unknown hydrocarbon	13.16	11	J
	unknown hydrocarbon	13.87	10	J
	unknown hydrocarbon	14.61	8.2	J
	unknown hydrocarbon	15.40	6.5	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006888-01

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	16.14	4.1	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006968-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2,4-Dinitrophenol	50 U	50	20	1	07/01/20 17:03	6/30/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/01/20 17:03	6/30/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2-Chlorophenol	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
2-Methylphenol	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
2-Nitroaniline	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2-Nitrophenol	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
3-Nitroaniline	10 U	10	2.5	1	07/01/20 17:03	6/30/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/01/20 17:03	6/30/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/01/20 17:03	6/30/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
4-Chloroaniline	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
4-Nitroaniline	10 U	10	2.7	1	07/01/20 17:03	6/30/20	
4-Nitrophenol	50 U	50	6.4	1	07/01/20 17:03	6/30/20	
Acenaphthene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Acenaphthylene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Anthracene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Benz(a)anthracene	10 U	10	1.6	1	07/01/20 17:03	6/30/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Benzoic Acid	100 U	100	36	1	07/01/20 17:03	6/30/20	
Benzyl Alcohol	10 U	10	1.6	1	07/01/20 17:03	6/30/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/01/20 17:03	6/30/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Chrysene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006968-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/01/20 17:03	6/30/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/01/20 17:03	6/30/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
Dibenzofuran	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Diethyl Phthalate	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Fluoranthene	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
Fluorene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Hexachlorobenzene	10 U	10	1.6	1	07/01/20 17:03	6/30/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/01/20 17:03	6/30/20	
Hexachloroethane	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/01/20 17:03	6/30/20	
Isophorone	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/01/20 17:03	6/30/20	
Naphthalene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
Nitrobenzene	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/01/20 17:03	6/30/20	
Phenanthrene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Phenol	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Pyrene	10 U	10	1.5	1	07/01/20 17:03	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	07/01/20 17:03	
2-Fluorobiphenyl	71	31 - 118	07/01/20 17:03	
2-Fluorophenol	44	10 - 105	07/01/20 17:03	
Nitrobenzene-d5	65	31 - 110	07/01/20 17:03	
Phenol-d6	31	10 - 107	07/01/20 17:03	
p-Terphenyl-d14	95	10 - 165	07/01/20 17:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007073-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2,4-Dinitrophenol	50 U	50	20	1	07/06/20 14:53	7/2/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/06/20 14:53	7/2/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2-Chlorophenol	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
2-Methylphenol	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
2-Nitroaniline	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2-Nitrophenol	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
3-Nitroaniline	10 U	10	2.5	1	07/06/20 14:53	7/2/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/06/20 14:53	7/2/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/06/20 14:53	7/2/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
4-Chloroaniline	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
4-Nitroaniline	10 U	10	2.7	1	07/06/20 14:53	7/2/20	
4-Nitrophenol	50 U	50	6.4	1	07/06/20 14:53	7/2/20	
Acenaphthene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Acenaphthylene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Anthracene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Benz(a)anthracene	10 U	10	1.6	1	07/06/20 14:53	7/2/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Benzoic Acid	100 U	100	36	1	07/06/20 14:53	7/2/20	
Benzyl Alcohol	10 U	10	1.6	1	07/06/20 14:53	7/2/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/06/20 14:53	7/2/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Chrysene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007073-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/06/20 14:53	7/2/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/06/20 14:53	7/2/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
Dibenzofuran	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Diethyl Phthalate	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Fluoranthene	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
Fluorene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Hexachlorobenzene	10 U	10	1.6	1	07/06/20 14:53	7/2/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/06/20 14:53	7/2/20	
Hexachloroethane	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/06/20 14:53	7/2/20	
Isophorone	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/06/20 14:53	7/2/20	
Naphthalene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
Nitrobenzene	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/06/20 14:53	7/2/20	
Phenanthrene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Phenol	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Pyrene	10 U	10	1.5	1	07/06/20 14:53	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	101	35 - 141	07/06/20 14:53	
2-Fluorobiphenyl	71	31 - 118	07/06/20 14:53	
2-Fluorophenol	48	10 - 105	07/06/20 14:53	
Nitrobenzene-d5	69	31 - 110	07/06/20 14:53	
Phenol-d6	35	10 - 107	07/06/20 14:53	
p-Terphenyl-d14	66	10 - 165	07/06/20 14:53	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	11.52	7.9	J
	unknown	11.93	8.1	J
	unknown hydrocarbon	12.08	12	J
	unknown hydrocarbon	12.69	17	J
	unknown hydrocarbon	13.36	17	J
	unknown hydrocarbon	14.08	14	J
	unknown hydrocarbon	14.85	13	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007073-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	15.65	11	J
	unknown	16.34	8.5	J

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 06/30/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2006888-02					Duplicate Lab Control Sample RQ2006888-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	48.2	80.0	60	51.2	80.0	64	10-127	6	30
1,2-Dichlorobenzene	8270D	47.7	80.0	60	48.4	80.0	61	23-130	2	30
1,3-Dichlorobenzene	8270D	47.1	80.0	59	47.8	80.0	60	21-90	2	30
1,4-Dichlorobenzene	8270D	46.4	80.0	58	48.6	80.0	61	10-124	5	30
2,4,5-Trichlorophenol	8270D	61.3	80.0	77	65.0	80.0	81	48-134	5	30
2,4,6-Trichlorophenol	8270D	60.0	80.0	75	64.1	80.0	80	44-135	6	30
2,4-Dichlorophenol	8270D	49.4	80.0	62	52.5	80.0	66	48-127	6	30
2,4-Dimethylphenol	8270D	57.0	80.0	71	57.9	80.0	72	59-113	1	30
2,4-Dinitrophenol	8270D	52.1	80.0	65	51.0	80.0	64	21-154	2	30
2,4-Dinitrotoluene	8270D	70.5	80.0	88	66.1	80.0	83	54-130	6	30
2,6-Dinitrotoluene	8270D	76.2	80.0	95	72.4	80.0	91	51-127	4	30
2-Chloronaphthalene	8270D	61.8	80.0	77	65.6	80.0	82	40-108	6	30
2-Chlorophenol	8270D	48.1	80.0	60	50.5	80.0	63	42-112	5	30
2-Methylnaphthalene	8270D	50.8	80.0	63	55.2	80.0	69	34-102	9	30
2-Methylphenol	8270D	51.5	80.0	64	55.0	80.0	69	47-100	8	30
2-Nitroaniline	8270D	68.1	80.0	85	70.3	80.0	88	52-133	3	30
2-Nitrophenol	8270D	53.6	80.0	67	53.8	80.0	67	43-131	<1	30
3,3'-Dichlorobenzidine	8270D	64.6	80.0	81	64.1	80.0	80	43-126	1	30
3- and 4-Methylphenol Coelution	8270D	45.9	80.0	57	49.4	80.0	62	40-92	8	30
3-Nitroaniline	8270D	63.4	80.0	79	64.3	80.0	80	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	55.5	80.0	69	54.9	80.0	69	36-152	<1	30
4-Bromophenyl Phenyl Ether	8270D	66.9	80.0	84	64.2	80.0	80	48-114	5	30
4-Chloro-3-methylphenol	8270D	53.5	80.0	67	59.9	80.0	75	52-113	11	30
4-Chloroaniline	8270D	61.1	80.0	76	61.7	80.0	77	44-109	1	30
4-Chlorophenyl Phenyl Ether	8270D	58.0	80.0	72	56.7	80.0	71	51-107	1	30
4-Nitroaniline	8270D	59.6	80.0	74	58.9	80.0	74	54-133	<1	30
4-Nitrophenol	8270D	20.2 J	80.0	25	19.3 J	80.0	24	10-126	4	30
Acenaphthene	8270D	64.0	80.0	80	65.4	80.0	82	52-107	2	30
Acenaphthylene	8270D	68.6	80.0	86	68.5	80.0	86	55-109	<1	30
Anthracene	8270D	71.3	80.0	89	70.7	80.0	88	55-116	1	30
Benz(a)anthracene	8270D	68.0	80.0	85	68.8	80.0	86	61-121	1	30
Benzo(a)pyrene	8270D	72.8	80.0	91	73.1	80.0	91	44-114	<1	30
Benzo(b)fluoranthene	8270D	68.1	80.0	85	69.8	80.0	87	62-115	2	30

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 06/30/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	81.3	80.0	102	80.9	80.0	101	63-136	<1	30
Benzo(k)fluoranthene	8270D	76.6	80.0	96	73.8	80.0	92	49-133	4	30
Benzoic Acid	8270D	66.5 J	120	55	70.2 J	120	58	10-94	5	30
Benzyl Alcohol	8270D	58.9	80.0	74	61.3	80.0	77	31-109	4	30
2,2'-Oxybis(1-chloropropane)	8270D	53.3	80.0	67	55.4	80.0	69	32-122	3	30
Bis(2-chloroethoxy)methane	8270D	57.7	80.0	72	59.7	80.0	75	55-110	4	30
Bis(2-chloroethyl) Ether	8270D	52.8	80.0	66	53.8	80.0	67	46-102	2	30
Bis(2-ethylhexyl) Phthalate	8270D	73.5	80.0	92	73.7	80.0	92	51-132	<1	30
Butyl Benzyl Phthalate	8270D	70.0	80.0	88	68.3	80.0	85	41-148	3	30
Chrysene	8270D	73.2	80.0	91	75.1	80.0	94	57-118	3	30
Di-n-butyl Phthalate	8270D	79.3	80.0	99	71.5	80.0	89	57-128	11	30
Di-n-octyl Phthalate	8270D	73.8	80.0	92	73.5	80.0	92	62-124	<1	30
Dibenz(a,h)anthracene	8270D	87.1	80.0	109	89.3	80.0	112	54-135	3	30
Dibenzofuran	8270D	68.5	80.0	86	67.1	80.0	84	55-110	2	30
Diethyl Phthalate	8270D	67.4	80.0	84	63.4	80.0	79	53-113	6	30
Dimethyl Phthalate	8270D	70.5	80.0	88	68.0	80.0	85	51-112	3	30
Fluoranthene	8270D	74.8	80.0	93	72.6	80.0	91	66-127	2	30
Fluorene	8270D	67.0	80.0	84	66.6	80.0	83	54-106	1	30
Hexachlorobenzene	8270D	79.1	80.0	99	77.3	80.0	97	53-123	2	30
Hexachlorobutadiene	8270D	52.4	80.0	66	55.8	80.0	70	16-95	6	30
Hexachlorocyclopentadiene	8270D	24.2	80.0	30	26.0	80.0	32	10-99	6	30
Hexachloroethane	8270D	47.0	80.0	59	47.2	80.0	59	15-92	<1	30
Indeno(1,2,3-cd)pyrene	8270D	71.8	80.0	90	73.4	80.0	92	62-137	2	30
Isophorone	8270D	50.0	80.0	63	49.9	80.0	62	50-116	2	30
N-Nitrosodi-n-propylamine	8270D	58.9	80.0	74	62.8	80.0	78	49-115	5	30
N-Nitrosodiphenylamine	8270D	80.4	80.0	101	78.3	80.0	98	45-123	3	30
Naphthalene	8270D	55.4	80.0	69	54.5	80.0	68	38-99	1	30
Nitrobenzene	8270D	50.8	80.0	64	53.6	80.0	67	46-108	5	30
Pentachlorophenol (PCP)	8270D	61.8	80.0	77	61.0	80.0	76	29-164	1	30
Phenanthrene	8270D	71.2	80.0	89	68.7	80.0	86	58-118	3	30
Phenol	8270D	32.3	80.0	40	32.6	80.0	41	10-113	2	30
Pyrene	8270D	77.6	80.0	97	74.2	80.0	93	61-122	4	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2006968-04					Duplicate Lab Control Sample RQ2006968-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	60.4	80.0	76	39.0	80.0	49	10-127	43*	30
1,2-Dichlorobenzene	8270D	57.5	80.0	72	37.6	80.0	47	23-130	42*	30
1,3-Dichlorobenzene	8270D	57.0	80.0	71	36.9	80.0	46	21-90	43*	30
1,4-Dichlorobenzene	8270D	55.7	80.0	70	36.5	80.0	46	10-124	41*	30
2,4,5-Trichlorophenol	8270D	69.0	80.0	86	46.8	80.0	58	48-134	39*	30
2,4,6-Trichlorophenol	8270D	65.6	80.0	82	42.1	80.0	53	44-135	43*	30
2,4-Dichlorophenol	8270D	62.6	80.0	78	41.4	80.0	52	48-127	40*	30
2,4-Dimethylphenol	8270D	65.7	80.0	82	44.7	80.0	56 *	59-113	38*	30
2,4-Dinitrophenol	8270D	60.5	80.0	76	38.9 J	80.0	49	21-154	43*	30
2,4-Dinitrotoluene	8270D	70.4	80.0	88	46.4	80.0	58	54-130	41*	30
2,6-Dinitrotoluene	8270D	79.2	80.0	99	54.5	80.0	68	51-127	37*	30
2-Chloronaphthalene	8270D	66.2	80.0	83	44.5	80.0	56	40-108	39*	30
2-Chlorophenol	8270D	58.8	80.0	74	37.5	80.0	47	42-112	45*	30
2-Methylnaphthalene	8270D	62.8	80.0	79	39.8	80.0	50	34-102	45*	30
2-Methylphenol	8270D	61.4	80.0	77	44.0	80.0	55	47-100	33*	30
2-Nitroaniline	8270D	71.5	80.0	89	47.7	80.0	60	52-133	39*	30
2-Nitrophenol	8270D	64.1	80.0	80	41.7	80.0	52	43-131	42*	30
3,3'-Dichlorobenzidine	8270D	66.6	80.0	83	43.9	80.0	55	43-126	41*	30
3- and 4-Methylphenol Coelution	8270D	55.1	80.0	69	38.5	80.0	48	40-92	36*	30
3-Nitroaniline	8270D	67.2	80.0	84	55.6	80.0	69	42-111	20	30
4,6-Dinitro-2-methylphenol	8270D	60.3	80.0	75	41.1 J	80.0	51	36-152	38*	30
4-Bromophenyl Phenyl Ether	8270D	69.7	80.0	87	50.5	80.0	63	48-114	32*	30
4-Chloro-3-methylphenol	8270D	66.1	80.0	83	40.6	80.0	51 *	52-113	48*	30
4-Chloroaniline	8270D	64.5	80.0	81	54.9	80.0	69	44-109	16	30
4-Chlorophenyl Phenyl Ether	8270D	62.5	80.0	78	43.8	80.0	55	51-107	35*	30
4-Nitroaniline	8270D	63.5	80.0	79	42.6	80.0	53 *	54-133	39*	30
4-Nitrophenol	8270D	27.1 J	80.0	34	20.8 J	80.0	26	10-126	27	30
Acenaphthene	8270D	69.8	80.0	87	46.0	80.0	57	52-107	42*	30
Acenaphthylene	8270D	73.7	80.0	92	49.7	80.0	62	55-109	39*	30
Anthracene	8270D	74.4	80.0	93	49.5	80.0	62	55-116	40*	30
Benz(a)anthracene	8270D	69.6	80.0	87	49.6	80.0	62	61-121	34*	30
Benzo(a)pyrene	8270D	75.2	80.0	94	52.1	80.0	65	44-114	36*	30
Benzo(b)fluoranthene	8270D	72.6	80.0	91	50.6	80.0	63	62-115	36*	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2006968-04					RQ2006968-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	76.4	80.0	95	56.5	80.0	71	63-136	29	30
Benzo(k)fluoranthene	8270D	77.9	80.0	97	56.2	80.0	70	49-133	32*	30
Benzoic Acid	8270D	65.8 J	120	55	56.4 J	120	47	10-94	16	30
Benzyl Alcohol	8270D	63.3	80.0	79	47.2	80.0	59	31-109	29	30
2,2'-Oxybis(1-chloropropane)	8270D	64.2	80.0	80	41.7	80.0	52	32-122	42*	30
Bis(2-chloroethoxy)methane	8270D	65.9	80.0	82	45.6	80.0	57	55-110	36*	30
Bis(2-chloroethyl) Ether	8270D	61.5	80.0	77	39.9	80.0	50	46-102	43*	30
Bis(2-ethylhexyl) Phthalate	8270D	73.4	80.0	92	51.7	80.0	65	51-132	34*	30
Butyl Benzyl Phthalate	8270D	75.3	80.0	94	49.3	80.0	62	41-148	41*	30
Chrysene	8270D	73.1	80.0	91	53.9	80.0	67	57-118	30	30
Di-n-butyl Phthalate	8270D	83.3	80.0	104	52.5	80.0	66	57-128	45*	30
Di-n-octyl Phthalate	8270D	80.2	80.0	100	53.2	80.0	66	62-124	41*	30
Dibenz(a,h)anthracene	8270D	82.6	80.0	103	62.0	80.0	78	54-135	28	30
Dibenzofuran	8270D	72.8	80.0	91	49.0	80.0	61	55-110	39*	30
Diethyl Phthalate	8270D	65.2	80.0	82	45.6	80.0	57	53-113	36*	30
Dimethyl Phthalate	8270D	75.9	80.0	95	50.9	80.0	64	51-112	39*	30
Fluoranthene	8270D	80.7	80.0	101	54.0	80.0	68	66-127	39*	30
Fluorene	8270D	72.2	80.0	90	49.5	80.0	62	54-106	37*	30
Hexachlorobenzene	8270D	79.9	80.0	100	58.9	80.0	74	53-123	30	30
Hexachlorobutadiene	8270D	62.6	80.0	78	40.2	80.0	50	16-95	44*	30
Hexachlorocyclopentadiene	8270D	26.8	80.0	33	18.1	80.0	23	10-99	36*	30
Hexachloroethane	8270D	55.2	80.0	69	35.9	80.0	45	15-92	42*	30
Indeno(1,2,3-cd)pyrene	8270D	70.3	80.0	88	49.6	80.0	62	62-137	35*	30
Isophorone	8270D	61.1	80.0	76	37.2	80.0	46 *	50-116	49*	30
N-Nitrosodi-n-propylamine	8270D	70.8	80.0	89	45.4	80.0	57	49-115	44*	30
N-Nitrosodiphenylamine	8270D	82.8	80.0	103	60.2	80.0	75	45-123	31*	30
Naphthalene	8270D	64.9	80.0	81	42.8	80.0	53	38-99	42*	30
Nitrobenzene	8270D	68.2	80.0	85	42.7	80.0	53	46-108	46*	30
Pentachlorophenol (PCP)	8270D	78.0	80.0	97	49.9 J	80.0	62	29-164	44*	30
Phenanthrene	8270D	72.6	80.0	91	49.0	80.0	61	58-118	39*	30
Phenol	8270D	36.4	80.0	46	27.1	80.0	34	10-113	30	30
Pyrene	8270D	78.0	80.0	98	52.0	80.0	65	61-122	40*	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/06/20 - 07/08/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2007073-04					Duplicate Lab Control Sample RQ2007073-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	56.0	80.0	70	50.2	80.0	63	10-127	11	30
1,2-Dichlorobenzene	8270D	56.6	80.0	71	47.1	80.0	59	23-130	18	30
1,3-Dichlorobenzene	8270D	55.5	80.0	69	48.6	80.0	61	21-90	12	30
1,4-Dichlorobenzene	8270D	53.4	80.0	67	47.6	80.0	60	10-124	11	30
2,4,5-Trichlorophenol	8270D	69.5	80.0	87	57.7	80.0	72	48-134	19	30
2,4,6-Trichlorophenol	8270D	65.0	80.0	81	55.5	80.0	69	44-135	16	30
2,4-Dichlorophenol	8270D	58.0	80.0	73	50.9	80.0	64	48-127	13	30
2,4-Dimethylphenol	8270D	58.8	80.0	74	56.3	80.0	70	59-113	6	30
2,4-Dinitrophenol	8270D	48.1 J	80.0	60	43.6 J	80.0	55	21-154	9	30
2,4-Dinitrotoluene	8270D	64.1	80.0	80	55.3	80.0	69	54-130	15	30
2,6-Dinitrotoluene	8270D	73.4	80.0	92	65.1	80.0	81	51-127	13	30
2-Chloronaphthalene	8270D	65.8	80.0	82	56.4	80.0	71	40-108	14	30
2-Chlorophenol	8270D	52.9	80.0	66	49.9	80.0	62	42-112	6	30
2-Methylnaphthalene	8270D	58.8	80.0	74	52.4	80.0	65	34-102	13	30
2-Methylphenol	8270D	55.4	80.0	69	50.8	80.0	64	47-100	8	30
2-Nitroaniline	8270D	67.4	80.0	84	65.2	80.0	82	52-133	2	30
2-Nitrophenol	8270D	58.6	80.0	73	51.8	80.0	65	43-131	12	30
3,3'-Dichlorobenzidine	8270D	59.9	80.0	75	56.1	80.0	70	43-126	7	30
3- and 4-Methylphenol Coelution	8270D	48.9	80.0	61	47.2	80.0	59	40-92	3	30
3-Nitroaniline	8270D	58.4	80.0	73	62.2	80.0	78	42-111	7	30
4,6-Dinitro-2-methylphenol	8270D	54.0	80.0	68	45.9 J	80.0	57	36-152	18	30
4-Bromophenyl Phenyl Ether	8270D	66.2	80.0	83	60.4	80.0	75	48-114	10	30
4-Chloro-3-methylphenol	8270D	62.1	80.0	78	55.8	80.0	70	52-113	11	30
4-Chloroaniline	8270D	57.6	80.0	72	61.9	80.0	77	44-109	7	30
4-Chlorophenyl Phenyl Ether	8270D	58.4	80.0	73	49.4	80.0	62	51-107	16	30
4-Nitroaniline	8270D	58.1	80.0	73	50.1	80.0	63	54-133	15	30
4-Nitrophenol	8270D	20.2 J	80.0	25	18.7 J	80.0	23	10-126	8	30
Acenaphthene	8270D	64.3	80.0	80	58.2	80.0	73	52-107	9	30
Acenaphthylene	8270D	70.3	80.0	88	62.1	80.0	78	55-109	12	30
Anthracene	8270D	67.2	80.0	84	59.9	80.0	75	55-116	11	30
Benz(a)anthracene	8270D	60.6	80.0	76	58.1	80.0	73	61-121	4	30
Benzo(a)pyrene	8270D	62.2	80.0	78	61.3	80.0	77	44-114	1	30
Benzo(b)fluoranthene	8270D	59.2	80.0	74	58.3	80.0	73	62-115	1	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/06/20 - 07/08/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	70.4	80.0	88	68.4	80.0	85	63-136	3	30
Benzo(k)fluoranthene	8270D	68.5	80.0	86	64.2	80.0	80	49-133	7	30
Benzoic Acid	8270D	70.9 J	120	59	67.3 J	120	56	10-94	5	30
Benzyl Alcohol	8270D	60.0	80.0	75	58.9	80.0	74	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	63.4	80.0	79	54.4	80.0	68	32-122	15	30
Bis(2-chloroethoxy)methane	8270D	66.2	80.0	83	57.4	80.0	72	55-110	14	30
Bis(2-chloroethyl) Ether	8270D	61.0	80.0	76	51.7	80.0	65	46-102	16	30
Bis(2-ethylhexyl) Phthalate	8270D	62.1	80.0	78	60.8	80.0	76	51-132	3	30
Butyl Benzyl Phthalate	8270D	62.3	80.0	78	60.3	80.0	75	41-148	4	30
Chrysene	8270D	65.3	80.0	82	63.8	80.0	80	57-118	2	30
Di-n-butyl Phthalate	8270D	72.4	80.0	91	66.3	80.0	83	57-128	9	30
Di-n-octyl Phthalate	8270D	63.7	80.0	80	61.0	80.0	76	62-124	5	30
Dibenz(a,h)anthracene	8270D	75.6	80.0	95	71.4	80.0	89	54-135	7	30
Dibenzofuran	8270D	69.7	80.0	87	57.6	80.0	72	55-110	19	30
Diethyl Phthalate	8270D	62.9	80.0	79	53.9	80.0	67	53-113	16	30
Dimethyl Phthalate	8270D	72.4	80.0	90	64.0	80.0	80	51-112	12	30
Fluoranthene	8270D	72.0	80.0	90	66.4	80.0	83	66-127	8	30
Fluorene	8270D	69.1	80.0	86	56.8	80.0	71	54-106	19	30
Hexachlorobenzene	8270D	73.1	80.0	91	69.0	80.0	86	53-123	6	30
Hexachlorobutadiene	8270D	58.0	80.0	73	53.1	80.0	66	16-95	10	30
Hexachlorocyclopentadiene	8270D	19.1	80.0	24	18.0	80.0	23	10-99	4	30
Hexachloroethane	8270D	55.7	80.0	70	49.0	80.0	61	15-92	14	30
Indeno(1,2,3-cd)pyrene	8270D	62.2	80.0	78	61.9	80.0	77	62-137	1	30
Isophorone	8270D	54.6	80.0	68	48.0	80.0	60	50-116	13	30
N-Nitrosodi-n-propylamine	8270D	66.7	80.0	83	60.7	80.0	76	49-115	9	30
N-Nitrosodiphenylamine	8270D	85.1	80.0	106	75.5	80.0	94	45-123	12	30
Naphthalene	8270D	62.2	80.0	78	54.1	80.0	68	38-99	14	30
Nitrobenzene	8270D	60.1	80.0	75	54.5	80.0	68	46-108	10	30
Pentachlorophenol (PCP)	8270D	67.6	80.0	85	59.1	80.0	74	29-164	14	30
Phenanthrene	8270D	67.1	80.0	84	61.2	80.0	77	58-118	9	30
Phenol	8270D	31.5	80.0	39	32.0	80.0	40	10-113	3	30
Pyrene	8270D	69.2	80.0	86	65.3	80.0	82	61-122	5	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005470

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-062420-SG-001	R2005470-002	19	60
WG-9954-062420-SG-002	R2005470-003	44	51
WG-9954-062420-SG-003	R2005470-004	61	50
WG-9954-062420-SG-004	R2005470-005	61	55
WG-9954-062420-SG-005	R2005470-006	20	57
WG-9954-062420-SG-006	R2005470-007	35	49
WG-9954-062420-SG-007	R2005470-008	28	56
Method Blank	RQ2006967-03	58	59
Lab Control Sample	RQ2006967-04	71	67
Duplicate Lab Control Sample	RQ2006967-05	60	57

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006967-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Aldrin	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Dieldrin	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endrin	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Heptachlor	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Toxaphene	0.50 U	0.50	0.50	1	07/01/20 16:36	6/30/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
beta-BHC	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
delta-BHC	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	58	10 - 164	07/01/20 16:36	
Tetrachloro-m-xylene	59	10 - 147	07/01/20 16:36	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample			Duplicate Lab Control Sample			RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	0.289	0.400	72	0.242	0.400	61	42-159	17	30
4,4'-DDE	8081B	0.287	0.400	72	0.245	0.400	61	47-147	16	30
4,4'-DDT	8081B	0.267	0.400	67	0.224	0.400	56	41-149	18	30
Aldrin	8081B	0.222	0.400	56	0.195	0.400	49	22-137	13	30
Dieldrin	8081B	0.320	0.400	80	0.269	0.400	67	52-144	17	30
Endosulfan I	8081B	0.316	0.400	79	0.268	0.400	67	52-136	16	30
Endosulfan II	8081B	0.323	0.400	81	0.276	0.400	69	57-138	16	30
Endosulfan Sulfate	8081B	0.271	0.400	68	0.229	0.400	57	34-156	17	30
Endrin	8081B	0.310	0.400	78	0.264	0.400	66	56-143	16	30
Endrin Ketone	8081B	0.317	0.400	79	0.269	0.400	67	59-143	16	30
Heptachlor	8081B	0.222	0.400	55	0.196	0.400	49	32-141	12	30
Heptachlor Epoxide	8081B	0.313	0.400	78	0.266	0.400	66	51-143	16	30
Methoxychlor	8081B	0.269	0.400	67	0.240	0.400	60	56-149	11	30
alpha-BHC	8081B	0.301	0.400	75	0.250	0.400	62	36-151	19	30
alpha-Chlordane	8081B	0.303	0.400	76	0.259	0.400	65	50-139	15	30
beta-BHC	8081B	0.326	0.400	82	0.270	0.400	68	55-149	19	30
delta-BHC	8081B	0.287	0.400	72	0.237	0.400	59	29-159	19	30
gamma-BHC (Lindane)	8081B	0.303	0.400	76	0.251	0.400	63	41-149	19	30
gamma-Chlordane	8081B	0.295	0.400	74	0.253	0.400	63	50-140	15	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005470

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-062420-SG-001	R2005470-002	21	53
WG-9954-062420-SG-002	R2005470-003	44	43
WG-9954-062420-SG-003	R2005470-004	62	44
WG-9954-062420-SG-004	R2005470-005	59	47
WG-9954-062420-SG-005	R2005470-006	20	49
WG-9954-062420-SG-006	R2005470-007	33	42
WG-9954-062420-SG-007	R2005470-008	26	49
Method Blank	RQ2006967-03	56	51
Lab Control Sample	RQ2006967-04	56	49
Duplicate Lab Control Sample	RQ2006967-05	58	49

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006967-03

Service Request: R2005470
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/01/20 17:28	6/30/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 152	07/01/20 17:28	
Tetrachloro-m-xylene	51	14 - 129	07/01/20 17:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005470
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample RQ2006967-04					Duplicate Lab Control Sample RQ2006967-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	2.57	4.00	64	2.65	4.00	66	49-123	3	30
Aroclor 1260	8082A	2.77	4.00	69	2.87	4.00	72	30-120	4	30



July 16, 2020

Service Request No:R2005520

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2020
For your reference, these analyses have been assigned our service request number **R2005520**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005520
Date Received: 06/26/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 06/26/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/01/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/01/2020: The lower control limit for the spike recovery of the Laboratory Control Sample Duplicate (LCSD) was exceeded for one or more analyte. Precision is also outside limits. There were no detections of the analyte(s) in the associated field samples. The LCS/MS/MSD were within limits for these analytes. The analytes affected are flagged in the LCS Summary.

Method 8270D, 07/01/2020: The lower control limit for the spike recovery of the Matrix Spike/Matrix Spike Duplicate (MS/MSD) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The LCS/LCSD were within limits for these analytes. The analytes affected are flagged in the MS Summary.

Semivolatile GC:

Method 8081B, 07/08/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/06/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/06/2020: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. The associated recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. The sample and ms/msd confirm each other for surrogate low. No further corrective action was appropriate.

Volatiles by GC/MS:

Method 8260C, 06/30/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/30/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 07/02/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with

Approved by



Date


07/16/2020



elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 07/02/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/07/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by 

Date 07/16/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062520-SG-013			Lab ID: R2005520-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	5.4	J	0.42	10	ug/L	8260C
Bis(2-ethylhexyl) Phthalate	3.7	J	0.91	9.1	ug/L	8270D
Aldrin	0.019	J	0.019	0.045	ug/L	8081B
alpha-BHC	0.18		0.019	0.045	ug/L	8081B
delta-BHC	0.28		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.21		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-062520-SG-011			Lab ID: R2005520-002			
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	2.0	J	0.42	10	ug/L	8260C
alpha-BHC	0.31		0.019	0.045	ug/L	8081B
delta-BHC	0.13		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.25		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-062520-SG-008			Lab ID: R2005520-003			
Analyte	Results	Flag	MDL	MRL	Units	Method
4-Methyl-2-pentanone	0.55	J	0.20	10	ug/L	8260C
Chloromethane	0.32	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-062520-SG-009			Lab ID: R2005520-004			
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	0.48	J	0.42	10	ug/L	8260C
Chloromethane	0.38	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-062520-SG-012			Lab ID: R2005520-005			
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	2.6	J	0.42	10	ug/L	8260C
Chloromethane	0.30	J	0.28	5.0	ug/L	8260C
alpha-BHC	0.033	J	0.019	0.045	ug/L	8081B
delta-BHC	0.068		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.037	J	0.019	0.045	ug/L	8081B
gamma-Chlordane	0.028	JP	0.019	0.045	ug/L	8081B

CLIENT ID: RB-9954-062520-SG-001			Lab ID: R2005520-006			
Analyte	Results	Flag	MDL	MRL	Units	Method
alpha-BHC	0.079		0.019	0.045	ug/L	8081B
delta-BHC	0.044	J	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.075		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-062520-SG-010			Lab ID: R2005520-008			
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	0.75	J	0.42	10	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005520

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005520-001	WG-9954-062520-SG-013	6/25/2020	1315
R2005520-002	WG-9954-062520-SG-011	6/25/2020	1110
R2005520-003	WG-9954-062520-SG-008	6/25/2020	0915
R2005520-004	WG-9954-062520-SG-009	6/25/2020	1005
R2005520-005	WG-9954-062520-SG-012	6/25/2020	1225
R2005520-006	RB-9954-062520-SG-001	6/25/2020	1350
R2005520-007	TB-9954-062520-SG-002	6/25/2020	0000
R2005520-008	WG-9954-062520-SG-010	6/25/2020	1005

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Kathy Willy
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2866	Project Name: LOVE CANAL ANNUAL GW
Email: kathy.willy@ghd.com	Project Number: 9954

Lab Information
Laboratory: ALS
Laboratory Location: 1665 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623
ROCHESTER, NY 14623
Laboratory Contact: BRADY KALKMAN
Requested Due Date: TAT: 10
QA/QC Requirements:

Event Information
ID#: LC ANNUAL GW SAMPLING 2020-02-1
SSOW Ref#: 292-402-999-3100
Sampler Name: S GARDNER, D TYRAN

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks
WG-9954-062520-SG-013		WG	06/25/2020	13:15	2	2	3	
WG-9954-062520-SG-011		WG	06/25/2020	11:10	2	2	3	
WG-9954-062520-SG-008		WG	06/25/2020	09:15	2	2	3	
WG-9954-062520-SG-009		WG	06/25/2020	10:05	2	2	3	
WG-9954-062520-SG-012		WG	06/25/2020	12:25	6	6	9	MS/MSD
RB-9954-062520-SG-001		WG Q	06/25/2020	13:50	2	2	3	
TB-9954-062520-SG-002		WG Q	06/25/2020	00:00	0	0	3	
WG-9954-062520-SG-010		WG	06/25/2020	10:05	2	2	3	
Total Bottles					18	18	30	Grand Total:66

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Shawn Gardner	6/25/20	1500	ALV	6/25/20	10:25
AIRBILL#:							

R2005520
 GHD Services Inc.
 Love Canal: 292-402-002-3100

5





1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 268-8475
www.alsglobal.com

T030477

Project Name: Love Canal:292-402-D02-3100	
Project Number: 8954 Annual Long Term Monitoring	Report To Kathy Willy
Company / Address GHD Services Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls NY, 14304	
Phone # 716-297-2160	FAX # 716-297-2265
Sampler Signature	Sampler Printed Name

NUMBER OF CONTAINERS	7D		14D
	3081B / Pest OC		
3082A / PCB			
3270D / SVO			
3260C / VOC FP			
1			
2			
3			
4			
5			

Remarks

[illegible]

Special Instructions/Comments:

Turnaround Requirements

RUSH (SURCHARGES APPLY)

Standard (3 weeks)

REQUESTED FAX DATE

Requested Report Date

Report Requirements

☐ I. Results Only

☐ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

☐ III. Results + QC and Calibration Summaries

☒ IV. Data Validation Report with Raw Data

EData Yes No

Invoice Information

P.O.# _____

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form

R2005520

5

GHD Services Inc.
Love Canal: 292-402-002-3100

Project/Client

GAD

Folder Number

Cooler received on

6/26/2020

by

NE/GC

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input checked="" type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	<u>CLIENT</u>	
7	Soil VOA received as:	Bulk	Encore	5035set <u>NA</u>

3. Temperature Readings

Date

6/26/2020

Time

10:30

ID:

IR#7

IR#10

From

Temp BlankSample Bottle

Observed Temp (°C)	<u>2.8</u>	<u>2.6</u>					
Within 0-6°C?	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y
If <0°C, were samples frozen?	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed (described below) _____ Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location:

R-002

by

GC

on

6/24/2020

at

1038

5035 samples placed in storage location:

by

on

at

within 48 hours of sampling?

☐ Y☐ N

Cooler Breakdown/Preservation Check**: Date:

6/26/2020

Time:

10:16

by:

GC

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

☒ YES☐ NO

10. Did all bottle labels and tags agree with custody papers?

☒ YES☐ NO

11. Were correct containers used for the tests indicated?

☒ YES☐ NO

12. Were 5035 vials acceptable (no extra labels, not leaking)?

☒ YES☐ NO

13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized

Tedlar® Bags Inflated

N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers:

client control 042720-1BMC

Explain all Discrepancies/ Other Comments:

* Trip Blank: 2 of 3 vials

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: GC

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005520

Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005520

Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method

8082A
8260C
8270D

Extracted/Digested By

KSERCU

KSERCU

Analyzed By

BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

BALLGEIER
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: TB-9954-062520-SG-002
Lab Code: R2005520-007
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method

8260C

Extracted/Digested By

Analyzed By

FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring

Service Request: R2005520

Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008
Sample Matrix: Water

Date Collected: 06/25/20
Date Received: 06/26/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

BALLGEIER
BALLGEIER
FNAEGLER
JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 20:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 20:20	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 20:20	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 20:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 20:20	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 20:20	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 20:20	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 20:20	
2-Hexanone	10 U	10	0.20	1	07/02/20 20:20	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 20:20	
Acetone	10 U	10	5.0	1	07/02/20 20:20	
Benzene	5.0 U	5.0	0.20	1	07/02/20 20:20	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 20:20	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 20:20	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 20:20	
Carbon Disulfide	5.4 J	10	0.42	1	07/02/20 20:20	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 20:20	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 20:20	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 20:20	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 20:20	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 20:20	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 20:20	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 20:20	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 20:20	
Styrene	5.0 U	5.0	0.20	1	07/02/20 20:20	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 20:20	
Toluene	5.0 U	5.0	0.20	1	07/02/20 20:20	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 20:20	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 20:20	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 20:20	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 20:20	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 20:20	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 20:20	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 20:20	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 20:20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	07/02/20 20:20	
Dibromofluoromethane	97	89 - 119	07/02/20 20:20	
Toluene-d8	97	87 - 121	07/02/20 20:20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 20:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 20:42	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 20:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 20:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 20:42	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 20:42	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 20:42	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 20:42	
2-Hexanone	10 U	10	0.20	1	07/02/20 20:42	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 20:42	
Acetone	10 U	10	5.0	1	07/02/20 20:42	
Benzene	5.0 U	5.0	0.20	1	07/02/20 20:42	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 20:42	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 20:42	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 20:42	
Carbon Disulfide	2.0 J	10	0.42	1	07/02/20 20:42	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 20:42	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 20:42	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 20:42	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 20:42	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 20:42	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 20:42	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 20:42	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 20:42	
Styrene	5.0 U	5.0	0.20	1	07/02/20 20:42	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 20:42	
Toluene	5.0 U	5.0	0.20	1	07/02/20 20:42	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 20:42	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 20:42	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 20:42	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 20:42	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 20:42	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 20:42	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 20:42	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 20:42	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	07/02/20 20:42	
Dibromofluoromethane	100	89 - 119	07/02/20 20:42	
Toluene-d8	98	87 - 121	07/02/20 20:42	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.10	82.8	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 06:09	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 06:09	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 06:09	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 06:09	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 06:09	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 06:09	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 06:09	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 06:09	
2-Hexanone	10 U	10	0.20	1	07/01/20 06:09	
4-Methyl-2-pentanone	0.55 J	10	0.20	1	07/01/20 06:09	
Acetone	10 U	10	5.0	1	07/01/20 06:09	
Benzene	5.0 U	5.0	0.20	1	07/01/20 06:09	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 06:09	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 06:09	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 06:09	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 06:09	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 06:09	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 06:09	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 06:09	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 06:09	
Chloromethane	0.32 J	5.0	0.28	1	07/01/20 06:09	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 06:09	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 06:09	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 06:09	
Styrene	5.0 U	5.0	0.20	1	07/01/20 06:09	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 06:09	
Toluene	5.0 U	5.0	0.20	1	07/01/20 06:09	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 06:09	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 06:09	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 06:09	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 06:09	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 06:09	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 06:09	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 06:09	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 06:09	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/01/20 06:09	
Dibromofluoromethane	92	89 - 119	07/01/20 06:09	
Toluene-d8	93	87 - 121	07/01/20 06:09	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 21:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 21:04	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 21:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 21:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 21:04	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 21:04	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 21:04	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 21:04	
2-Hexanone	10 U	10	0.20	1	07/02/20 21:04	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 21:04	
Acetone	10 U	10	5.0	1	07/02/20 21:04	
Benzene	5.0 U	5.0	0.20	1	07/02/20 21:04	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 21:04	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 21:04	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 21:04	
Carbon Disulfide	0.48 J	10	0.42	1	07/02/20 21:04	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 21:04	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 21:04	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 21:04	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 21:04	
Chloromethane	0.38 J	5.0	0.28	1	07/02/20 21:04	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 21:04	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 21:04	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 21:04	
Styrene	5.0 U	5.0	0.20	1	07/02/20 21:04	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 21:04	
Toluene	5.0 U	5.0	0.20	1	07/02/20 21:04	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 21:04	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 21:04	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 21:04	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 21:04	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 21:04	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 21:04	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 21:04	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 21:04	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	07/02/20 21:04	
Dibromofluoromethane	96	89 - 119	07/02/20 21:04	
Toluene-d8	96	87 - 121	07/02/20 21:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 21:26	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 21:26	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 21:26	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 21:26	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 21:26	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 21:26	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 21:26	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 21:26	
2-Hexanone	10 U	10	0.20	1	07/02/20 21:26	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 21:26	
Acetone	10 U	10	5.0	1	07/02/20 21:26	
Benzene	5.0 U	5.0	0.20	1	07/02/20 21:26	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 21:26	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 21:26	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 21:26	
Carbon Disulfide	2.6 J	10	0.42	1	07/02/20 21:26	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 21:26	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 21:26	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 21:26	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 21:26	
Chloromethane	0.30 J	5.0	0.28	1	07/02/20 21:26	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 21:26	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 21:26	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 21:26	
Styrene	5.0 U	5.0	0.20	1	07/02/20 21:26	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 21:26	
Toluene	5.0 U	5.0	0.20	1	07/02/20 21:26	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 21:26	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 21:26	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 21:26	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 21:26	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 21:26	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 21:26	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 21:26	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 21:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/02/20 21:26	
Dibromofluoromethane	98	89 - 119	07/02/20 21:26	
Toluene-d8	98	87 - 121	07/02/20 21:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.32	7.5	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	06/30/20 23:52	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/20 23:52	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:52	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/20 23:52	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/20 23:52	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:52	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/20 23:52	
2-Butanone (MEK)	10 U	10	0.78	1	06/30/20 23:52	
2-Hexanone	10 U	10	0.20	1	06/30/20 23:52	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/20 23:52	
Acetone	10 U	10	5.0	1	06/30/20 23:52	
Benzene	5.0 U	5.0	0.20	1	06/30/20 23:52	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/20 23:52	
Bromoform	5.0 U	5.0	0.25	1	06/30/20 23:52	
Bromomethane	5.0 U	5.0	0.70	1	06/30/20 23:52	
Carbon Disulfide	10 U	10	0.42	1	06/30/20 23:52	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/20 23:52	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/20 23:52	
Chloroethane	5.0 U	5.0	0.23	1	06/30/20 23:52	
Chloroform	5.0 U	5.0	0.24	1	06/30/20 23:52	
Chloromethane	5.0 U	5.0	0.28	1	06/30/20 23:52	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/20 23:52	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/20 23:52	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/20 23:52	
Styrene	5.0 U	5.0	0.20	1	06/30/20 23:52	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/20 23:52	
Toluene	5.0 U	5.0	0.20	1	06/30/20 23:52	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/20 23:52	
Vinyl Acetate	10 U	10	1.1	1	06/30/20 23:52	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/20 23:52	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/20 23:52	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/20 23:52	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/20 23:52	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/20 23:52	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/20 23:52	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/30/20 23:52	
Dibromofluoromethane	89	89 - 119	06/30/20 23:52	
Toluene-d8	92	87 - 121	06/30/20 23:52	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062520-SG-002
Lab Code: R2005520-007

Service Request: R2005520
Date Collected: 06/25/20 00:00
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	06/30/20 23:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/20 23:30	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/20 23:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/20 23:30	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:30	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/20 23:30	
2-Butanone (MEK)	10 U	10	0.78	1	06/30/20 23:30	
2-Hexanone	10 U	10	0.20	1	06/30/20 23:30	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/20 23:30	
Acetone	10 U	10	5.0	1	06/30/20 23:30	
Benzene	5.0 U	5.0	0.20	1	06/30/20 23:30	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/20 23:30	
Bromoform	5.0 U	5.0	0.25	1	06/30/20 23:30	
Bromomethane	5.0 U	5.0	0.70	1	06/30/20 23:30	
Carbon Disulfide	10 U	10	0.42	1	06/30/20 23:30	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/20 23:30	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/20 23:30	
Chloroethane	5.0 U	5.0	0.23	1	06/30/20 23:30	
Chloroform	5.0 U	5.0	0.24	1	06/30/20 23:30	
Chloromethane	5.0 U	5.0	0.28	1	06/30/20 23:30	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/20 23:30	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/20 23:30	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/20 23:30	
Styrene	5.0 U	5.0	0.20	1	06/30/20 23:30	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/20 23:30	
Toluene	5.0 U	5.0	0.20	1	06/30/20 23:30	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/20 23:30	
Vinyl Acetate	10 U	10	1.1	1	06/30/20 23:30	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/20 23:30	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/20 23:30	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/20 23:30	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/20 23:30	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/20 23:30	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/20 23:30	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062520-SG-002
Lab Code: R2005520-007

Service Request: R2005520
Date Collected: 06/25/20 00:00
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/30/20 23:30	
Dibromofluoromethane	92	89 - 119	06/30/20 23:30	
Toluene-d8	95	87 - 121	06/30/20 23:30	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062520-SG-002
Lab Code: R2005520-007

Service Request: R2005520
Date Collected: 06/25/20 00:00
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/07/20 22:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/07/20 22:08	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/07/20 22:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/07/20 22:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/07/20 22:08	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/07/20 22:08	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/07/20 22:08	
2-Butanone (MEK)	10 U	10	0.78	1	07/07/20 22:08	
2-Hexanone	10 U	10	0.20	1	07/07/20 22:08	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/07/20 22:08	
Acetone	10 U	10	5.0	1	07/07/20 22:08	
Benzene	5.0 U	5.0	0.20	1	07/07/20 22:08	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/07/20 22:08	
Bromoform	5.0 U	5.0	0.25	1	07/07/20 22:08	
Bromomethane	5.0 U	5.0	0.70	1	07/07/20 22:08	
Carbon Disulfide	0.75 J	10	0.42	1	07/07/20 22:08	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/07/20 22:08	
Chlorobenzene	5.0 U	5.0	0.20	1	07/07/20 22:08	
Chloroethane	5.0 U	5.0	0.23	1	07/07/20 22:08	
Chloroform	5.0 U	5.0	0.24	1	07/07/20 22:08	
Chloromethane	5.0 U	5.0	0.28	1	07/07/20 22:08	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/07/20 22:08	
Dichloromethane	5.0 U	5.0	0.65	1	07/07/20 22:08	
Ethylbenzene	5.0 U	5.0	0.20	1	07/07/20 22:08	
Styrene	5.0 U	5.0	0.20	1	07/07/20 22:08	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/07/20 22:08	
Toluene	5.0 U	5.0	0.20	1	07/07/20 22:08	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/07/20 22:08	
Vinyl Acetate	10 U	10	1.1	1	07/07/20 22:08	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/07/20 22:08	
Xylenes, Total	5.0 U	5.0	0.23	1	07/07/20 22:08	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/07/20 22:08	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/07/20 22:08	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/07/20 22:08	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/07/20 22:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	07/07/20 22:08	
Dibromofluoromethane	109	89 - 119	07/07/20 22:08	
Toluene-d8	107	87 - 121	07/07/20 22:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.23	28.9	JN



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 19:49	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 19:49	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 19:49	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 19:49	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 19:49	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 19:49	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 19:49	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 19:49	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 19:49	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 19:49	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 19:49	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 19:49	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 19:49	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 19:49	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 19:49	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 19:49	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 19:49	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 19:49	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 19:49	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 19:49	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
Bis(2-ethylhexyl) Phthalate	3.7 J	9.1	0.91	1	07/01/20 19:49	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 19:49	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 19:49	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 19:49	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 19:49	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 19:49	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 19:49	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 19:49	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 19:49	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 19:49	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 19:49	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 19:49	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 19:49	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 19:49	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 19:49	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 19:49	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 19:49	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 19:49	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	104	35 - 141	07/01/20 19:49	
2-Fluorobiphenyl	69	31 - 118	07/01/20 19:49	
2-Fluorophenol	38	10 - 105	07/01/20 19:49	
Nitrobenzene-d5	61	31 - 110	07/01/20 19:49	
Phenol-d6	32	10 - 107	07/01/20 19:49	
p-Terphenyl-d14	92	10 - 165	07/01/20 19:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	6.0	J
	unknown hydrocarbon	11.89	9.6	J
	unknown hydrocarbon	12.48	12	J
	unknown hydrocarbon	13.13	13	J
	unknown hydrocarbon	13.83	11	J
	unknown hydrocarbon	14.58	13	J
	unknown hydrocarbon	15.37	8.5	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	16.11	8.0	J
000112-05-0	Nonanoic acid	6.09	4.5	JN
013798-23-7	Sulfur	7.83	42	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 20:16	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 20:16	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 20:16	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 20:16	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 20:16	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 20:16	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 20:16	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 20:16	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 20:16	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 20:16	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 20:16	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 20:16	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 20:16	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 20:16	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 20:16	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 20:16	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 20:16	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 20:16	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 20:16	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 20:16	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 20:16	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 20:16	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 20:16	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 20:16	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 20:16	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 20:16	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 20:16	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 20:16	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 20:16	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 20:16	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 20:16	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 20:16	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 20:16	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 20:16	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 20:16	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 20:16	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 20:16	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 20:16	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	35 - 141	07/01/20 20:16	
2-Fluorobiphenyl	70	31 - 118	07/01/20 20:16	
2-Fluorophenol	43	10 - 105	07/01/20 20:16	
Nitrobenzene-d5	68	31 - 110	07/01/20 20:16	
Phenol-d6	30	10 - 107	07/01/20 20:16	
p-Terphenyl-d14	93	10 - 165	07/01/20 20:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	7.77	8.0	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 20:44	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 20:44	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 20:44	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 20:44	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 20:44	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 20:44	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 20:44	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 20:44	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 20:44	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 20:44	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 20:44	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 20:44	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 20:44	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 20:44	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 20:44	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 20:44	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 20:44	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 20:44	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 20:44	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 20:44	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 20:44	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 20:44	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 20:44	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 20:44	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 20:44	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 20:44	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 20:44	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 20:44	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 20:44	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 20:44	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 20:44	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 20:44	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 20:44	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 20:44	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 20:44	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 20:44	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 20:44	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 20:44	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	95	35 - 141	07/01/20 20:44	
2-Fluorobiphenyl	74	31 - 118	07/01/20 20:44	
2-Fluorophenol	45	10 - 105	07/01/20 20:44	
Nitrobenzene-d5	69	31 - 110	07/01/20 20:44	
Phenol-d6	31	10 - 107	07/01/20 20:44	
p-Terphenyl-d14	94	10 - 165	07/01/20 20:44	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
1000336-66-8	6-Octadecenoic acid	10.16	11	JN
	unknown hydrocarbon	13.13	4.6	J
	unknown	6.36	3.7	J
	unknown	6.51	12	J
000057-10-3	n-Hexadecanoic acid	9.44	5.8	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 21:12	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 21:12	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 21:12	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 21:12	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 21:12	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 21:12	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 21:12	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 21:12	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 21:12	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 21:12	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 21:12	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 21:12	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 21:12	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 21:12	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 21:12	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 21:12	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 21:12	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 21:12	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 21:12	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 21:12	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 21:12	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 21:12	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 21:12	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 21:12	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 21:12	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 21:12	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 21:12	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 21:12	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 21:12	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 21:12	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 21:12	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 21:12	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 21:12	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 21:12	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 21:12	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 21:12	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 21:12	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 21:12	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	81	35 - 141	07/01/20 21:12	
2-Fluorobiphenyl	64	31 - 118	07/01/20 21:12	
2-Fluorophenol	38	10 - 105	07/01/20 21:12	
Nitrobenzene-d5	66	31 - 110	07/01/20 21:12	
Phenol-d6	28	10 - 107	07/01/20 21:12	
p-Terphenyl-d14	87	10 - 165	07/01/20 21:12	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	4.5	J
	unknown hydrocarbon	11.89	7.7	J
	unknown hydrocarbon	12.48	10	J
	unknown hydrocarbon	13.13	11	J
	unknown hydrocarbon	13.83	8.7	J
	unknown hydrocarbon	14.58	7.4	J
	unknown hydrocarbon	15.36	5.9	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	16.11	4.0	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 21:40	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 21:40	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 21:40	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 21:40	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 21:40	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 21:40	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 21:40	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 21:40	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 21:40	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 21:40	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 21:40	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 21:40	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 21:40	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 21:40	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 21:40	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 21:40	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 21:40	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 21:40	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 21:40	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 21:40	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 21:40	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 21:40	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 21:40	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 21:40	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 21:40	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 21:40	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 21:40	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 21:40	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 21:40	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 21:40	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 21:40	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 21:40	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 21:40	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 21:40	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 21:40	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 21:40	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 21:40	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 21:40	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	07/01/20 21:40	
2-Fluorobiphenyl	59	31 - 118	07/01/20 21:40	
2-Fluorophenol	40	10 - 105	07/01/20 21:40	
Nitrobenzene-d5	59	31 - 110	07/01/20 21:40	
Phenol-d6	28	10 - 107	07/01/20 21:40	
p-Terphenyl-d14	93	10 - 165	07/01/20 21:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	7.79	9.6	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 23:03	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 23:03	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 23:03	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 23:03	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 23:03	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 23:03	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 23:03	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 23:03	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 23:03	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 23:03	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 23:03	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 23:03	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 23:03	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 23:03	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 23:03	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 23:03	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 23:03	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 23:03	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 23:03	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 23:03	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 23:03	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 23:03	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 23:03	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 23:03	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 23:03	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 23:03	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 23:03	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 23:03	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 23:03	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 23:03	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 23:03	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 23:03	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 23:03	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 23:03	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 23:03	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 23:03	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 23:03	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 23:03	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	07/01/20 23:03	
2-Fluorobiphenyl	78	31 - 118	07/01/20 23:03	
2-Fluorophenol	39	10 - 105	07/01/20 23:03	
Nitrobenzene-d5	68	31 - 110	07/01/20 23:03	
Phenol-d6	28	10 - 107	07/01/20 23:03	
p-Terphenyl-d14	94	10 - 165	07/01/20 23:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.89	4.0	J
	unknown hydrocarbon	12.48	4.9	J
	unknown hydrocarbon	13.13	4.9	J
	unknown hydrocarbon	13.83	4.1	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/01/20 23:32	6/30/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/01/20 23:32	6/30/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
2,4-Dinitrophenol	45 U	45	19	1	07/01/20 23:32	6/30/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/01/20 23:32	6/30/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/01/20 23:32	6/30/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/01/20 23:32	6/30/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/01/20 23:32	6/30/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/01/20 23:32	6/30/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/01/20 23:32	6/30/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/01/20 23:32	6/30/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/01/20 23:32	6/30/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/01/20 23:32	6/30/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/01/20 23:32	6/30/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/01/20 23:32	6/30/20	
4-Nitrophenol	45 U	45	5.8	1	07/01/20 23:32	6/30/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
Anthracene	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/01/20 23:32	6/30/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/01/20 23:32	6/30/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
Benzoic Acid	91 U	91	33	1	07/01/20 23:32	6/30/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/01/20 23:32	6/30/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/01/20 23:32	6/30/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/01/20 23:32	6/30/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
Chrysene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/01/20 23:32	6/30/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/01/20 23:32	6/30/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/01/20 23:32	6/30/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/01/20 23:32	6/30/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/01/20 23:32	6/30/20	
Fluorene	9.1 U	9.1	1.2	1	07/01/20 23:32	6/30/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/01/20 23:32	6/30/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/01/20 23:32	6/30/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/01/20 23:32	6/30/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/01/20 23:32	6/30/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/01/20 23:32	6/30/20	
Isophorone	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/01/20 23:32	6/30/20	
Naphthalene	9.1 U	9.1	1.1	1	07/01/20 23:32	6/30/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/01/20 23:32	6/30/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/01/20 23:32	6/30/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	
Phenol	9.1 U	9.1	0.91	1	07/01/20 23:32	6/30/20	
Pyrene	9.1 U	9.1	1.3	1	07/01/20 23:32	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	07/01/20 23:32	
2-Fluorobiphenyl	67	31 - 118	07/01/20 23:32	
2-Fluorophenol	44	10 - 105	07/01/20 23:32	
Nitrobenzene-d5	68	31 - 110	07/01/20 23:32	
Phenol-d6	29	10 - 107	07/01/20 23:32	
p-Terphenyl-d14	92	10 - 165	07/01/20 23:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Aldrin	0.019 J	0.045	0.019	1	07/08/20 09:54	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 09:54	6/30/20	
alpha-BHC	0.18	0.045	0.019	1	07/08/20 09:54	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	
delta-BHC	0.28	0.045	0.019	1	07/08/20 09:54	6/30/20	
gamma-BHC (Lindane)	0.21	0.045	0.019	1	07/08/20 09:54	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 09:54	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 164	07/08/20 09:54	
Tetrachloro-m-xylene	80	10 - 147	07/08/20 09:54	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 10:13	6/30/20	
alpha-BHC	0.31	0.045	0.019	1	07/08/20 10:13	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	
delta-BHC	0.13	0.045	0.019	1	07/08/20 10:13	6/30/20	
gamma-BHC (Lindane)	0.25	0.045	0.019	1	07/08/20 10:13	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 10:13	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 164	07/08/20 10:13	
Tetrachloro-m-xylene	71	10 - 147	07/08/20 10:13	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 10:32	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 10:32	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 164	07/08/20 10:32	
Tetrachloro-m-xylene	74	10 - 147	07/08/20 10:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 10:51	6/30/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
delta-BHC	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 10:51	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	37	10 - 164	07/08/20 10:51	
Tetrachloro-m-xylene	57	10 - 147	07/08/20 10:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 18:43	6/30/20	
alpha-BHC	0.033 J	0.045	0.019	1	07/08/20 18:43	6/30/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 18:43	6/30/20	
delta-BHC	0.068	0.045	0.019	1	07/08/20 18:43	6/30/20	
gamma-BHC (Lindane)	0.037 J	0.045	0.019	1	07/08/20 18:43	6/30/20	
gamma-Chlordane	0.028 JP	0.045	0.019	1	07/08/20 18:43	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 164	07/08/20 18:43	
Tetrachloro-m-xylene	85	10 - 147	07/08/20 18:43	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/06/20 11:38	7/1/20	
alpha-BHC	0.079	0.045	0.019	1	07/06/20 11:38	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
beta-BHC	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	
delta-BHC	0.044 J	0.045	0.019	1	07/06/20 11:38	7/1/20	
gamma-BHC (Lindane)	0.075	0.045	0.019	1	07/06/20 11:38	7/1/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/06/20 11:38	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	10	10 - 164	07/06/20 11:38	
Tetrachloro-m-xylene	53	10 - 147	07/06/20 11:38	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/06/20 11:57	7/1/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
beta-BHC	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
delta-BHC	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/06/20 11:57	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 164	07/06/20 11:57	
Tetrachloro-m-xylene	45	10 - 147	07/06/20 11:57	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-013
Lab Code: R2005520-001

Service Request: R2005520
Date Collected: 06/25/20 13:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/07/20 18:23	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/07/20 18:23	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/07/20 18:23	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/07/20 18:23	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/07/20 18:23	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/07/20 18:23	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/07/20 18:23	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 152	07/07/20 18:23	
Tetrachloro-m-xylene	47	14 - 129	07/07/20 18:23	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-011
Lab Code: R2005520-002

Service Request: R2005520
Date Collected: 06/25/20 11:10
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/07/20 18:42	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/07/20 18:42	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/07/20 18:42	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/07/20 18:42	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/07/20 18:42	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/07/20 18:42	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/07/20 18:42	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	41	10 - 152	07/07/20 18:42	
Tetrachloro-m-xylene	45	14 - 129	07/07/20 18:42	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-008
Lab Code: R2005520-003

Service Request: R2005520
Date Collected: 06/25/20 09:15
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 23:12	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 23:12	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 23:12	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 23:12	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 23:12	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 23:12	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 23:12	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 152	07/01/20 23:12	
Tetrachloro-m-xylene	57	14 - 129	07/01/20 23:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-009
Lab Code: R2005520-004

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/01/20 23:32	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/01/20 23:32	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/01/20 23:32	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/01/20 23:32	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/01/20 23:32	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/01/20 23:32	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/01/20 23:32	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 152	07/01/20 23:32	
Tetrachloro-m-xylene	59	14 - 129	07/01/20 23:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005

Service Request: R2005520
Date Collected: 06/25/20 12:25
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/07/20 19:02	6/30/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/07/20 19:02	6/30/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/07/20 19:02	6/30/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/07/20 19:02	6/30/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/07/20 19:02	6/30/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/07/20 19:02	6/30/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/07/20 19:02	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 152	07/07/20 19:02	
Tetrachloro-m-xylene	46	14 - 129	07/07/20 19:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-062520-SG-001
Lab Code: R2005520-006

Service Request: R2005520
Date Collected: 06/25/20 13:50
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/06/20 12:41	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/06/20 12:41	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/06/20 12:41	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/06/20 12:41	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/06/20 12:41	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/06/20 12:41	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/06/20 12:41	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	10	10 - 152	07/06/20 12:41	
Tetrachloro-m-xylene	47	14 - 129	07/06/20 12:41	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062520-SG-010
Lab Code: R2005520-008

Service Request: R2005520
Date Collected: 06/25/20 10:05
Date Received: 06/26/20 10:25
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/06/20 13:42	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/06/20 13:42	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/06/20 13:42	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/06/20 13:42	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/06/20 13:42	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/06/20 13:42	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/06/20 13:42	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	28	10 - 152	07/06/20 13:42	
Tetrachloro-m-xylene	39	14 - 129	07/06/20 13:42	



QC Summary Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005520

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
WG-9954-062520-SG-013	R2005520-001	92	97	97
WG-9954-062520-SG-011	R2005520-002	92	100	98
WG-9954-062520-SG-008	R2005520-003	90	92	93
WG-9954-062520-SG-009	R2005520-004	91	96	96
WG-9954-062520-SG-012	R2005520-005	93	98	98
RB-9954-062520-SG-001	R2005520-006	90	89	92
TB-9954-062520-SG-002	R2005520-007	91	92	95
WG-9954-062520-SG-010	R2005520-008	107	109	107
Method Blank	RQ2007077-06	92	95	97
Method Blank	RQ2007141-04	90	89	91
Method Blank	RQ2007251-04	101	102	100
Lab Control Sample	RQ2007077-04	94	98	97
Lab Control Sample	RQ2007141-03	95	95	93
Lab Control Sample	RQ2007251-03	102	103	101
WG-9954-062520-SG-012 MS	RQ2007077-07	92	98	97
WG-9954-062520-SG-012 DMS	RQ2007077-08	97	102	100

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Collected: 06/25/20
Date Received: 06/26/20
Date Analyzed: 07/2/20
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007077-07				Duplicate Matrix Spike RQ2007077-08				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,1,1-Trichloroethane (TCA)	5.0 U	57.7	50.0	115	63.7	50.0	127	74-127	10	30
1,1,2,2-Tetrachloroethane	5.0 U	64.9	50.0	130 *	70.7	50.0	141 *	72-122	9	30
1,1,2-Trichloroethane	5.0 U	51.8	50.0	104	57.8	50.0	116	82-121	11	30
1,1-Dichloroethane (1,1-DCA)	5.0 U	58.8	50.0	118	63.7	50.0	127	74-132	8	30
1,1-Dichloroethene (1,1-DCE)	5.0 U	55.1	50.0	110	60.6	50.0	121 *	71-118	9	30
1,2-Dichloroethane	5.0 U	48.5	50.0	97	53.8	50.0	108	68-130	10	30
1,2-Dichloropropane	5.0 U	56.1	50.0	112	61.8	50.0	124	79-124	10	30
2-Butanone (MEK)	10 U	50.5	50.0	101	58.0	50.0	116	61-137	14	30
2-Hexanone	10 U	53.8	50.0	108	61.7	50.0	123	56-132	14	30
4-Methyl-2-pentanone	10 U	54.2	50.0	108	62.8	50.0	126	60-141	15	30
Acetone	10 U	47.5	50.0	95	53.5	50.0	107	35-183	12	30
Benzene	5.0 U	54.1	50.0	108	59.3	50.0	119	76-129	9	30
Bromodichloromethane	5.0 U	55.3	50.0	111	61.2	50.0	122	78-133	10	30
Bromoform	5.0 U	51.1	50.0	102	56.1	50.0	112	58-133	9	30
Bromomethane	5.0 U	23.8	50.0	48	24.8	50.0	50	10-184	4	30
Carbon Disulfide	2.6 J	59.6	50.0	114	68.9	50.0	133	59-140	14	30
Carbon Tetrachloride	5.0 U	55.5	50.0	111	61.1	50.0	122	65-135	10	30
Chlorobenzene	5.0 U	51.1	50.0	102	55.9	50.0	112	76-125	9	30
Chloroethane	5.0 U	59.8	50.0	120	67.1	50.0	134	48-146	12	30
Chloroform	5.0 U	55.4	50.0	111	59.9	50.0	120	75-130	8	30
Chloromethane	0.30 J	51.9	50.0	103	56.4	50.0	112	55-160	8	30
Dibromochloromethane	5.0 U	53.0	50.0	106	58.0	50.0	116	72-128	9	30
Dichloromethane	5.0 U	53.3	50.0	107	56.9	50.0	114	73-122	7	30
Ethylbenzene	5.0 U	55.1	50.0	110	59.8	50.0	120	72-134	8	30
Styrene	5.0 U	54.3	50.0	109	58.9	50.0	118	74-136	8	30
Tetrachloroethene (PCE)	5.0 U	50.9	50.0	102	54.8	50.0	110	72-125	7	30
Toluene	5.0 U	54.2	50.0	108	59.5	50.0	119	79-119	9	30
Trichloroethene (TCE)	5.0 U	42.0	50.0	84	47.1	50.0	94	74-122	11	30
Vinyl Acetate	10 U	62.8	50.0	126	70.6	50.0	141	48-172	12	30
Vinyl Chloride	5.0 U	61.8	50.0	124	66.7	50.0	133	74-159	8	30
cis-1,2-Dichloroethene	5.0 U	56.3	50.0	113	62.1	50.0	124	77-127	10	30
cis-1,3-Dichloropropene	5.0 U	52.8	50.0	106	58.7	50.0	117	52-134	11	30
trans-1,2-Dichloroethene	5.0 U	55.6	50.0	111	61.3	50.0	123 *	73-118	10	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Collected: 06/25/20
Date Received: 06/26/20
Date Analyzed: 07/2/20
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2007077-07			Duplicate Matrix Spike RQ2007077-08			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,3-Dichloropropene	5.0 U	52.2	50.0	104	58.6	50.0	117	71-133	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007077-06

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/02/20 13:35	
2-Butanone (MEK)	10 U	10	0.78	1	07/02/20 13:35	
2-Hexanone	10 U	10	0.20	1	07/02/20 13:35	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/02/20 13:35	
Acetone	10 U	10	5.0	1	07/02/20 13:35	
Benzene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
Bromoform	5.0 U	5.0	0.25	1	07/02/20 13:35	
Bromomethane	5.0 U	5.0	0.70	1	07/02/20 13:35	
Carbon Disulfide	10 U	10	0.42	1	07/02/20 13:35	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/02/20 13:35	
Chlorobenzene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Chloroethane	5.0 U	5.0	0.23	1	07/02/20 13:35	
Chloroform	5.0 U	5.0	0.24	1	07/02/20 13:35	
Chloromethane	5.0 U	5.0	0.28	1	07/02/20 13:35	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/02/20 13:35	
Dichloromethane	5.0 U	5.0	0.65	1	07/02/20 13:35	
Ethylbenzene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Styrene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/02/20 13:35	
Toluene	5.0 U	5.0	0.20	1	07/02/20 13:35	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/02/20 13:35	
Vinyl Acetate	10 U	10	1.1	1	07/02/20 13:35	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/02/20 13:35	
Xylenes, Total	5.0 U	5.0	0.23	1	07/02/20 13:35	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/02/20 13:35	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/02/20 13:35	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/02/20 13:35	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/02/20 13:35	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007077-06

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	07/02/20 13:35	
Dibromofluoromethane	95	89 - 119	07/02/20 13:35	
Toluene-d8	97	87 - 121	07/02/20 13:35	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007077-06

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/20 23:08	
2-Butanone (MEK)	10 U	10	0.78	1	06/30/20 23:08	
2-Hexanone	10 U	10	0.20	1	06/30/20 23:08	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/20 23:08	
Acetone	10 U	10	5.0	1	06/30/20 23:08	
Benzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
Bromoform	5.0 U	5.0	0.25	1	06/30/20 23:08	
Bromomethane	5.0 U	5.0	0.70	1	06/30/20 23:08	
Carbon Disulfide	10 U	10	0.42	1	06/30/20 23:08	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/20 23:08	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Chloroethane	5.0 U	5.0	0.23	1	06/30/20 23:08	
Chloroform	5.0 U	5.0	0.24	1	06/30/20 23:08	
Chloromethane	5.0 U	5.0	0.28	1	06/30/20 23:08	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/20 23:08	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Styrene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/20 23:08	
Toluene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/20 23:08	
Vinyl Acetate	10 U	10	1.1	1	06/30/20 23:08	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/20 23:08	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/20 23:08	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/20 23:08	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/20 23:08	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/20 23:08	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/20 23:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/30/20 23:08	
Dibromofluoromethane	89	89 - 119	06/30/20 23:08	
Toluene-d8	91	87 - 121	06/30/20 23:08	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007251-04

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/07/20 17:23	
2-Butanone (MEK)	10 U	10	0.78	1	07/07/20 17:23	
2-Hexanone	10 U	10	0.20	1	07/07/20 17:23	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/07/20 17:23	
Acetone	10 U	10	5.0	1	07/07/20 17:23	
Benzene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
Bromoform	5.0 U	5.0	0.25	1	07/07/20 17:23	
Bromomethane	5.0 U	5.0	0.70	1	07/07/20 17:23	
Carbon Disulfide	10 U	10	0.42	1	07/07/20 17:23	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/07/20 17:23	
Chlorobenzene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Chloroethane	5.0 U	5.0	0.23	1	07/07/20 17:23	
Chloroform	5.0 U	5.0	0.24	1	07/07/20 17:23	
Chloromethane	5.0 U	5.0	0.28	1	07/07/20 17:23	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
Dichloromethane	5.0 U	5.0	0.65	1	07/07/20 17:23	
Ethylbenzene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Styrene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/07/20 17:23	
Toluene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/07/20 17:23	
Vinyl Acetate	10 U	10	1.1	1	07/07/20 17:23	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/07/20 17:23	
Xylenes, Total	5.0 U	5.0	0.23	1	07/07/20 17:23	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/07/20 17:23	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/07/20 17:23	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/07/20 17:23	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/07/20 17:23	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007251-04

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	07/07/20 17:23	
Dibromofluoromethane	102	89 - 119	07/07/20 17:23	
Toluene-d8	100	87 - 121	07/07/20 17:23	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007251-04

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/02/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007077-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.5	20.0	113	75-125
1,1,2,2-Tetrachloroethane	8260C	28.8	20.0	144 *	78-126
1,1,2-Trichloroethane	8260C	21.8	20.0	109	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	23.3	20.0	117	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.1	20.0	105	71-118
1,2-Dichloroethane	8260C	20.4	20.0	102	71-127
1,2-Dichloropropane	8260C	22.9	20.0	114	80-119
2-Butanone (MEK)	8260C	23.7	20.0	118	61-137
2-Hexanone	8260C	22.8	20.0	114	63-124
4-Methyl-2-pentanone	8260C	22.8	20.0	114	66-124
Acetone	8260C	25.8	20.0	129	40-161
Benzene	8260C	21.7	20.0	109	79-119
Bromodichloromethane	8260C	21.7	20.0	109	81-123
Bromoform	8260C	21.9	20.0	110	65-146
Bromomethane	8260C	17.7	20.0	89	42-166
Carbon Disulfide	8260C	21.0	20.0	105	66-128
Carbon Tetrachloride	8260C	20.4	20.0	102	70-127
Chlorobenzene	8260C	21.4	20.0	107	80-121
Chloroethane	8260C	22.3	20.0	112	62-131
Chloroform	8260C	22.2	20.0	111	79-120
Chloromethane	8260C	22.1	20.0	110	65-135
Dibromochloromethane	8260C	22.5	20.0	112	72-128
Dichloromethane	8260C	21.8	20.0	109	73-122
Ethylbenzene	8260C	22.1	20.0	110	76-120
Styrene	8260C	22.0	20.0	110	80-124
Tetrachloroethene (PCE)	8260C	20.4	20.0	102	72-125
Toluene	8260C	21.8	20.0	109	79-119
Trichloroethene (TCE)	8260C	17.7	20.0	89	74-122
Vinyl Acetate	8260C	30.7	20.0	154	52-174
Vinyl Chloride	8260C	23.1	20.0	116	74-159
cis-1,2-Dichloroethene	8260C	22.8	20.0	114	80-121
cis-1,3-Dichloropropene	8260C	22.4	20.0	112	77-122
trans-1,2-Dichloroethene	8260C	21.9	20.0	110	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/02/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007077-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	23.4	20.0	117	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 06/30/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007141-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.6	20.0	108	75-125
1,1,2,2-Tetrachloroethane	8260C	26.2	20.0	131 *	78-126
1,1,2-Trichloroethane	8260C	22.0	20.0	110	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.8	20.0	104	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.3	20.0	101	71-118
1,2-Dichloroethane	8260C	19.5	20.0	98	71-127
1,2-Dichloropropane	8260C	21.2	20.0	106	80-119
2-Butanone (MEK)	8260C	16.9	20.0	85	61-137
2-Hexanone	8260C	17.3	20.0	87	63-124
4-Methyl-2-pentanone	8260C	17.2	20.0	86	66-124
Acetone	8260C	20.1	20.0	101	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromodichloromethane	8260C	21.4	20.0	107	81-123
Bromoform	8260C	22.5	20.0	113	65-146
Bromomethane	8260C	14.4	20.0	72	42-166
Carbon Disulfide	8260C	17.2	20.0	86	66-128
Carbon Tetrachloride	8260C	21.4	20.0	107	70-127
Chlorobenzene	8260C	21.9	20.0	109	80-121
Chloroethane	8260C	16.2	20.0	81	62-131
Chloroform	8260C	21.1	20.0	105	79-120
Chloromethane	8260C	17.5	20.0	87	65-135
Dibromochloromethane	8260C	23.1	20.0	116	72-128
Dichloromethane	8260C	20.7	20.0	103	73-122
Ethylbenzene	8260C	22.5	20.0	113	76-120
Styrene	8260C	22.5	20.0	112	80-124
Tetrachloroethene (PCE)	8260C	21.6	20.0	108	72-125
Toluene	8260C	21.5	20.0	107	79-119
Trichloroethene (TCE)	8260C	18.3	20.0	91	74-122
Vinyl Acetate	8260C	23.8	20.0	119	52-174
Vinyl Chloride	8260C	17.0	20.0	85	74-159
cis-1,2-Dichloroethene	8260C	22.1	20.0	111	80-121
cis-1,3-Dichloropropene	8260C	21.4	20.0	107	77-122
trans-1,2-Dichloroethene	8260C	21.1	20.0	105	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 06/30/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007141-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	21.6	20.0	108	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/07/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007251-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.1	20.0	95	75-125
1,1,2,2-Tetrachloroethane	8260C	21.7	20.0	108	78-126
1,1,2-Trichloroethane	8260C	20.6	20.0	103	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.6	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.3	20.0	112	71-118
1,2-Dichloroethane	8260C	19.0	20.0	95	71-127
1,2-Dichloropropane	8260C	18.3	20.0	92	80-119
2-Butanone (MEK)	8260C	21.7	20.0	109	61-137
2-Hexanone	8260C	19.5	20.0	98	63-124
4-Methyl-2-pentanone	8260C	20.4	20.0	102	66-124
Acetone	8260C	26.2	20.0	131	40-161
Benzene	8260C	19.2	20.0	96	79-119
Bromodichloromethane	8260C	19.2	20.0	96	81-123
Bromoform	8260C	21.7	20.0	109	65-146
Bromomethane	8260C	19.2	20.0	96	42-166
Carbon Disulfide	8260C	23.7	20.0	118	66-128
Carbon Tetrachloride	8260C	19.7	20.0	99	70-127
Chlorobenzene	8260C	19.2	20.0	96	80-121
Chloroethane	8260C	16.7	20.0	84	62-131
Chloroform	8260C	20.1	20.0	100	79-120
Chloromethane	8260C	17.5	20.0	88	65-135
Dibromochloromethane	8260C	20.9	20.0	104	72-128
Dichloromethane	8260C	19.6	20.0	98	73-122
Ethylbenzene	8260C	19.2	20.0	96	76-120
Styrene	8260C	19.4	20.0	97	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	72-125
Toluene	8260C	19.4	20.0	97	79-119
Trichloroethene (TCE)	8260C	18.5	20.0	93	74-122
Vinyl Acetate	8260C	37.2	20.0	186 *	52-174
Vinyl Chloride	8260C	17.2	20.0	86	74-159
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	19.1	20.0	96	77-122
trans-1,2-Dichloroethene	8260C	20.5	20.0	102	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/07/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007251-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	20.9	20.0	104	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005520

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-062520-SG-013	R2005520-001	104	69	38
WG-9954-062520-SG-011	R2005520-002	93	70	43
WG-9954-062520-SG-008	R2005520-003	95	74	45
WG-9954-062520-SG-009	R2005520-004	81	64	38
WG-9954-062520-SG-012	R2005520-005	83	59	40
RB-9954-062520-SG-001	R2005520-006	89	78	39
WG-9954-062520-SG-010	R2005520-008	79	67	44
Method Blank	RQ2006968-03	78	71	44
Lab Control Sample	RQ2006968-04	100	80	56
Duplicate Lab Control Sample	RQ2006968-05	64	54	39
WG-9954-062520-SG-012 MS	RQ2006968-01	107	78	43
WG-9954-062520-SG-012 DMS	RQ2006968-02	97	71	43

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005520

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-062520-SG-013	R2005520-001	61	32	92
WG-9954-062520-SG-011	R2005520-002	68	30	93
WG-9954-062520-SG-008	R2005520-003	69	31	94
WG-9954-062520-SG-009	R2005520-004	66	28	87
WG-9954-062520-SG-012	R2005520-005	59	28	93
RB-9954-062520-SG-001	R2005520-006	68	28	94
WG-9954-062520-SG-010	R2005520-008	68	29	92
Method Blank	RQ2006968-03	65	31	95
Lab Control Sample	RQ2006968-04	85	41	104
Duplicate Lab Control Sample	RQ2006968-05	54	29	78
WG-9954-062520-SG-012 MS	RQ2006968-01	77	32	94
WG-9954-062520-SG-012 DMS	RQ2006968-02	68	34	92

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Collected: 06/25/20
Date Received: 06/26/20
Date Analyzed: 07/1/20
Date Extracted: 06/30/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2006968-01			Duplicate Matrix Spike RQ2006968-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4-Trichlorobenzene	9.1 U	44.7	72.7	61	42.3	72.7	58	10-127	5	30
1,2-Dichlorobenzene	9.1 U	39.9	72.7	55	40.1	72.7	55	17-105	<1	30
1,3-Dichlorobenzene	9.1 U	38.5	72.7	53	39.5	72.7	54	21-99	2	30
1,4-Dichlorobenzene	9.1 U	41.1	72.7	56	37.8	72.7	52	10-124	7	30
2,4,5-Trichlorophenol	9.1 U	62.7	72.7	86	59.6	72.7	82	48-134	5	30
2,4,6-Trichlorophenol	9.1 U	59.8	72.7	82	55.5	72.7	76	44-135	8	30
2,4-Dichlorophenol	9.1 U	48.4	72.7	67	48.0	72.7	66	40-130	2	30
2,4-Dimethylphenol	9.1 U	54.2	72.7	75	55.4	72.7	76	42-121	1	30
2,4-Dinitrophenol	45 U	53.5	72.7	74	49.6	72.7	68	21-168	8	30
2,4-Dinitrotoluene	9.1 U	72.1	72.7	99	68.2	72.7	94	37-143	5	30
2,6-Dinitrotoluene	9.1 U	78.8	72.7	108	72.3	72.7	99	39-136	9	30
2-Chloronaphthalene	9.1 U	58.5	72.7	80	54.1	72.7	74	40-108	8	30
2-Chlorophenol	9.1 U	41.7	72.7	57	42.2	72.7	58	37-112	2	30
2-Methylnaphthalene	9.1 U	52.7	72.7	72	50.2	72.7	69	34-102	4	30
2-Methylphenol	9.1 U	47.7	72.7	66	47.0	72.7	65	37-102	2	30
2-Nitroaniline	9.1 U	73.3	72.7	101	73.9	72.7	102	40-136	<1	30
2-Nitrophenol	9.1 U	48.8	72.7	67	49.7	72.7	68	27-143	1	30
3,3'-Dichlorobenzidine	9.1 U	65.2	72.7	90	62.7	72.7	86	11-131	5	30
3- and 4-Methylphenol Coelution	9.1 U	45.1	72.7	62	44.4	72.7	61	30-95	2	30
3-Nitroaniline	9.1 U	69.3	72.7	95	69.3	72.7	95	19-117	<1	30
4,6-Dinitro-2-methylphenol	45 U	58.3	72.7	80	57.5	72.7	79	25-154	1	30
4-Bromophenyl Phenyl Ether	9.1 U	64.3	72.7	88	57.1	72.7	78	39-115	12	30
4-Chloro-3-methylphenol	9.1 U	60.9	72.7	84	59.9	72.7	82	41-126	2	30
4-Chloroaniline	9.1 U	58.3	72.7	80	63.6	72.7	87	19-111	8	30
4-Chlorophenyl Phenyl Ether	9.1 U	57.4	72.7	79	52.0	72.7	72	41-111	9	30
4-Nitroaniline	9.1 U	76.4	72.7	105	85.0	72.7	117	18-143	11	30
4-Nitrophenol	45 U	26.2 J	72.7	36	28.7 J	72.7	39	10-126	8	30
Acenaphthene	9.1 U	63.6	72.7	87	58.4	72.7	80	43-117	8	30
Acenaphthylene	9.1 U	66.8	72.7	92	61.4	72.7	84	45-119	9	30
Anthracene	9.1 U	70.5	72.7	97	63.5	72.7	87	45-127	11	30
Benz(a)anthracene	9.1 U	56.7	72.7	78	53.0	72.7	73	46-126	7	30
Benzo(a)pyrene	9.1 U	58.0	72.7	80	56.8	72.7	78	44-114	3	30
Benzo(b)fluoranthene	9.1 U	51.5	72.7	71	48.5	72.7	67	41-127	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Collected: 06/25/20
Date Received: 06/26/20
Date Analyzed: 07/1/20
Date Extracted: 06/30/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-062520-SG-012
Lab Code: R2005520-005
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2006968-01			Duplicate Matrix Spike RQ2006968-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(g,h,i)perylene	9.1 U	56.3	72.7	77	55.5	72.7	76	50-143	1	30
Benzo(k)fluoranthene	9.1 U	55.7	72.7	77	55.0	72.7	76	46-139	1	30
Benzoic Acid	91 U	74.4 J	109	68	69.3 J	109	64	10-94	6	30
Benzyl Alcohol	9.1 U	56.4	72.7	78	57.0	72.7	78	31-109	<1	30
2,2'-Oxybis(1-chloropropane)	9.1 U	49.9	72.7	69	49.0	72.7	67	21-126	3	30
Bis(2-chloroethoxy)methane	9.1 U	53.7	72.7	74	54.6	72.7	75	41-118	1	30
Bis(2-chloroethyl) Ether	9.1 U	44.9	72.7	62	45.3	72.7	62	33-108	<1	30
Bis(2-ethylhexyl) Phthalate	9.1 U	52.9	72.7	73	50.7	72.7	70	41-132	4	30
Butyl Benzyl Phthalate	9.1 U	62.9	72.7	86	61.7	72.7	85	41-148	1	30
Chrysene	9.1 U	59.0	72.7	81	55.6	72.7	76	47-126	6	30
Di-n-butyl Phthalate	9.1 U	73.3	72.7	101	66.4	72.7	91	43-130	10	30
Di-n-octyl Phthalate	9.1 U	50.7	72.7	70	54.0	72.7	74	40-139	6	30
Dibenz(a,h)anthracene	9.1 U	60.8	72.7	84	59.2	72.7	81	43-136	4	30
Dibenzofuran	9.1 U	68.3	72.7	94	61.8	72.7	85	46-119	10	30
Diethyl Phthalate	9.1 U	65.9	72.7	91	63.1	72.7	87	36-122	4	30
Dimethyl Phthalate	9.1 U	72.3	72.7	99	67.4	72.7	93	33-123	6	30
Fluoranthene	9.1 U	73.9	72.7	102	65.8	72.7	90	43-135	13	30
Fluorene	9.1 U	69.5	72.7	96	63.1	72.7	87	43-113	10	30
Hexachlorobenzene	9.1 U	67.8	72.7	93	60.1	72.7	83	42-125	11	30
Hexachlorobutadiene	9.1 U	44.8	72.7	62	44.9	72.7	62	10-111	<1	30
Hexachlorocyclopentadiene	9.1 U	4.05 J	72.7	6 *	5.07 J	72.7	7 *	10-103	15	30
Hexachloroethane	9.1 U	39.8	72.7	55	39.6	72.7	54	12-101	2	30
Indeno(1,2,3-cd)pyrene	9.1 U	50.9	72.7	70	48.4	72.7	67	49-140	4	30
Isophorone	9.1 U	49.1	72.7	68	46.4	72.7	64	40-111	6	30
N-Nitrosodi-n-propylamine	9.1 U	61.9	72.7	85	58.9	72.7	81	35-108	5	30
N-Nitrosodiphenylamine	9.1 U	83.7	72.7	115	77.1	72.7	106	43-127	8	30
Naphthalene	9.1 U	49.1	72.7	68	48.5	72.7	67	37-108	1	30
Nitrobenzene	9.1 U	52.1	72.7	72	48.4	72.7	67	35-112	7	30
Pentachlorophenol (PCP)	45 U	71.7	72.7	99	61.1	72.7	84	29-164	16	30
Phenanthrene	9.1 U	69.0	72.7	95	63.6	72.7	87	46-123	9	30
Phenol	9.1 U	26.4	72.7	36	28.4	72.7	39	10-113	8	30
Pyrene	9.1 U	72.3	72.7	99	70.5	72.7	97	44-129	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006968-03

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2,4-Dinitrophenol	50 U	50	20	1	07/01/20 17:03	6/30/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/01/20 17:03	6/30/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2-Chlorophenol	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
2-Methylphenol	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
2-Nitroaniline	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
2-Nitrophenol	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
3-Nitroaniline	10 U	10	2.5	1	07/01/20 17:03	6/30/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/01/20 17:03	6/30/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/01/20 17:03	6/30/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
4-Chloroaniline	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
4-Nitroaniline	10 U	10	2.7	1	07/01/20 17:03	6/30/20	
4-Nitrophenol	50 U	50	6.4	1	07/01/20 17:03	6/30/20	
Acenaphthene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Acenaphthylene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Anthracene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Benz(a)anthracene	10 U	10	1.6	1	07/01/20 17:03	6/30/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Benzoic Acid	100 U	100	36	1	07/01/20 17:03	6/30/20	
Benzyl Alcohol	10 U	10	1.6	1	07/01/20 17:03	6/30/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/01/20 17:03	6/30/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Chrysene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006968-03

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/01/20 17:03	6/30/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/01/20 17:03	6/30/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
Dibenzofuran	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Diethyl Phthalate	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Fluoranthene	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
Fluorene	10 U	10	1.3	1	07/01/20 17:03	6/30/20	
Hexachlorobenzene	10 U	10	1.6	1	07/01/20 17:03	6/30/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/01/20 17:03	6/30/20	
Hexachloroethane	10 U	10	1.1	1	07/01/20 17:03	6/30/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/01/20 17:03	6/30/20	
Isophorone	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/01/20 17:03	6/30/20	
Naphthalene	10 U	10	1.2	1	07/01/20 17:03	6/30/20	
Nitrobenzene	10 U	10	1.5	1	07/01/20 17:03	6/30/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/01/20 17:03	6/30/20	
Phenanthrene	10 U	10	1.4	1	07/01/20 17:03	6/30/20	
Phenol	10 U	10	1.0	1	07/01/20 17:03	6/30/20	
Pyrene	10 U	10	1.5	1	07/01/20 17:03	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	07/01/20 17:03	
2-Fluorobiphenyl	71	31 - 118	07/01/20 17:03	
2-Fluorophenol	44	10 - 105	07/01/20 17:03	
Nitrobenzene-d5	65	31 - 110	07/01/20 17:03	
Phenol-d6	31	10 - 107	07/01/20 17:03	
p-Terphenyl-d14	95	10 - 165	07/01/20 17:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2006968-04					Duplicate Lab Control Sample RQ2006968-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	60.4	80.0	76	39.0	80.0	49	10-127	43*	30
1,2-Dichlorobenzene	8270D	57.5	80.0	72	37.6	80.0	47	23-130	42*	30
1,3-Dichlorobenzene	8270D	57.0	80.0	71	36.9	80.0	46	21-90	43*	30
1,4-Dichlorobenzene	8270D	55.7	80.0	70	36.5	80.0	46	10-124	41*	30
2,4,5-Trichlorophenol	8270D	69.0	80.0	86	46.8	80.0	58	48-134	39*	30
2,4,6-Trichlorophenol	8270D	65.6	80.0	82	42.1	80.0	53	44-135	43*	30
2,4-Dichlorophenol	8270D	62.6	80.0	78	41.4	80.0	52	48-127	40*	30
2,4-Dimethylphenol	8270D	65.7	80.0	82	44.7	80.0	56 *	59-113	38*	30
2,4-Dinitrophenol	8270D	60.5	80.0	76	38.9 J	80.0	49	21-154	43*	30
2,4-Dinitrotoluene	8270D	70.4	80.0	88	46.4	80.0	58	54-130	41*	30
2,6-Dinitrotoluene	8270D	79.2	80.0	99	54.5	80.0	68	51-127	37*	30
2-Chloronaphthalene	8270D	66.2	80.0	83	44.5	80.0	56	40-108	39*	30
2-Chlorophenol	8270D	58.8	80.0	74	37.5	80.0	47	42-112	45*	30
2-Methylnaphthalene	8270D	62.8	80.0	79	39.8	80.0	50	34-102	45*	30
2-Methylphenol	8270D	61.4	80.0	77	44.0	80.0	55	47-100	33*	30
2-Nitroaniline	8270D	71.5	80.0	89	47.7	80.0	60	52-133	39*	30
2-Nitrophenol	8270D	64.1	80.0	80	41.7	80.0	52	43-131	42*	30
3,3'-Dichlorobenzidine	8270D	66.6	80.0	83	43.9	80.0	55	43-126	41*	30
3- and 4-Methylphenol Coelution	8270D	55.1	80.0	69	38.5	80.0	48	40-92	36*	30
3-Nitroaniline	8270D	67.2	80.0	84	55.6	80.0	69	42-111	20	30
4,6-Dinitro-2-methylphenol	8270D	60.3	80.0	75	41.1 J	80.0	51	36-152	38*	30
4-Bromophenyl Phenyl Ether	8270D	69.7	80.0	87	50.5	80.0	63	48-114	32*	30
4-Chloro-3-methylphenol	8270D	66.1	80.0	83	40.6	80.0	51 *	52-113	48*	30
4-Chloroaniline	8270D	64.5	80.0	81	54.9	80.0	69	44-109	16	30
4-Chlorophenyl Phenyl Ether	8270D	62.5	80.0	78	43.8	80.0	55	51-107	35*	30
4-Nitroaniline	8270D	63.5	80.0	79	42.6	80.0	53 *	54-133	39*	30
4-Nitrophenol	8270D	27.1 J	80.0	34	20.8 J	80.0	26	10-126	27	30
Acenaphthene	8270D	69.8	80.0	87	46.0	80.0	57	52-107	42*	30
Acenaphthylene	8270D	73.7	80.0	92	49.7	80.0	62	55-109	39*	30
Anthracene	8270D	74.4	80.0	93	49.5	80.0	62	55-116	40*	30
Benz(a)anthracene	8270D	69.6	80.0	87	49.6	80.0	62	61-121	34*	30
Benzo(a)pyrene	8270D	75.2	80.0	94	52.1	80.0	65	44-114	36*	30
Benzo(b)fluoranthene	8270D	72.6	80.0	91	50.6	80.0	63	62-115	36*	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	76.4	80.0	95	56.5	80.0	71	63-136	29	30
Benzo(k)fluoranthene	8270D	77.9	80.0	97	56.2	80.0	70	49-133	32*	30
Benzoic Acid	8270D	65.8 J	120	55	56.4 J	120	47	10-94	16	30
Benzyl Alcohol	8270D	63.3	80.0	79	47.2	80.0	59	31-109	29	30
2,2'-Oxybis(1-chloropropane)	8270D	64.2	80.0	80	41.7	80.0	52	32-122	42*	30
Bis(2-chloroethoxy)methane	8270D	65.9	80.0	82	45.6	80.0	57	55-110	36*	30
Bis(2-chloroethyl) Ether	8270D	61.5	80.0	77	39.9	80.0	50	46-102	43*	30
Bis(2-ethylhexyl) Phthalate	8270D	73.4	80.0	92	51.7	80.0	65	51-132	34*	30
Butyl Benzyl Phthalate	8270D	75.3	80.0	94	49.3	80.0	62	41-148	41*	30
Chrysene	8270D	73.1	80.0	91	53.9	80.0	67	57-118	30	30
Di-n-butyl Phthalate	8270D	83.3	80.0	104	52.5	80.0	66	57-128	45*	30
Di-n-octyl Phthalate	8270D	80.2	80.0	100	53.2	80.0	66	62-124	41*	30
Dibenz(a,h)anthracene	8270D	82.6	80.0	103	62.0	80.0	78	54-135	28	30
Dibenzofuran	8270D	72.8	80.0	91	49.0	80.0	61	55-110	39*	30
Diethyl Phthalate	8270D	65.2	80.0	82	45.6	80.0	57	53-113	36*	30
Dimethyl Phthalate	8270D	75.9	80.0	95	50.9	80.0	64	51-112	39*	30
Fluoranthene	8270D	80.7	80.0	101	54.0	80.0	68	66-127	39*	30
Fluorene	8270D	72.2	80.0	90	49.5	80.0	62	54-106	37*	30
Hexachlorobenzene	8270D	79.9	80.0	100	58.9	80.0	74	53-123	30	30
Hexachlorobutadiene	8270D	62.6	80.0	78	40.2	80.0	50	16-95	44*	30
Hexachlorocyclopentadiene	8270D	26.8	80.0	33	18.1	80.0	23	10-99	36*	30
Hexachloroethane	8270D	55.2	80.0	69	35.9	80.0	45	15-92	42*	30
Indeno(1,2,3-cd)pyrene	8270D	70.3	80.0	88	49.6	80.0	62	62-137	35*	30
Isophorone	8270D	61.1	80.0	76	37.2	80.0	46 *	50-116	49*	30
N-Nitrosodi-n-propylamine	8270D	70.8	80.0	89	45.4	80.0	57	49-115	44*	30
N-Nitrosodiphenylamine	8270D	82.8	80.0	103	60.2	80.0	75	45-123	31*	30
Naphthalene	8270D	64.9	80.0	81	42.8	80.0	53	38-99	42*	30
Nitrobenzene	8270D	68.2	80.0	85	42.7	80.0	53	46-108	46*	30
Pentachlorophenol (PCP)	8270D	78.0	80.0	97	49.9 J	80.0	62	29-164	44*	30
Phenanthrene	8270D	72.6	80.0	91	49.0	80.0	61	58-118	39*	30
Phenol	8270D	36.4	80.0	46	27.1	80.0	34	10-113	30	30
Pyrene	8270D	78.0	80.0	98	52.0	80.0	65	61-122	40*	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005520

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-062520-SG-013	R2005520-001	67	80
WG-9954-062520-SG-011	R2005520-002	56	71
WG-9954-062520-SG-008	R2005520-003	65	74
WG-9954-062520-SG-009	R2005520-004	37	57
WG-9954-062520-SG-012	R2005520-005	49	85
RB-9954-062520-SG-001	R2005520-006	10	53
WG-9954-062520-SG-010	R2005520-008	27	45
Method Blank	RQ2006967-03	58	59
Method Blank	RQ2007029-01	84	75
Lab Control Sample	RQ2006967-04	71	67
Duplicate Lab Control Sample	RQ2006967-05	60	57
Lab Control Sample	RQ2007029-02	63	60
Duplicate Lab Control Sample	RQ2007029-03	68	58
WG-9954-062520-SG-012 MS	RQ2006967-01	42	67
WG-9954-062520-SG-012 DMS	RQ2006967-02	43	66

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QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005520
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	06/25/20
Sample Matrix:	Water	Date Received:	06/26/20
		Date Analyzed:	07/8/20
		Date Extracted:	06/30/20

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-062520-SG-012	Units:	ug/L
Lab Code:	R2005520-005	Basis:	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

Analyte Name	Matrix Spike					Duplicate Matrix Spike				
	Sample Result	Result	RQ2006967-01		Result	RQ2006967-02		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
4,4'-DDD	0.045 U	0.244	0.364	67	0.270	0.364	74	38-157	10	30
4,4'-DDE	0.045 U	0.236	0.364	65	0.261	0.364	72	10-200	10	30
4,4'-DDT	0.045 U	0.237	0.364	65	0.260	0.364	72	19-154	10	30
Aldrin	0.045 U	0.214	0.364	59	0.239	0.364	66	26-149	11	30
Dieldrin	0.045 U	0.249	0.364	68	0.279	0.364	77	41-164	11	30
Endosulfan I	0.045 U	0.251	0.364	69	0.280	0.364	77	47-149	11	30
Endosulfan II	0.045 U	0.254	0.364	70	0.285	0.364	78	51-148	12	30
Endosulfan Sulfate	0.045 U	0.234	0.364	64	0.266	0.364	73	10-170	13	30
Endrin	0.045 U	0.255	0.364	70	0.285	0.364	78	48-165	11	30
Endrin Ketone	0.045 U	0.259	0.364	71	0.290	0.364	80	48-162	11	30
Heptachlor	0.045 U	0.181	0.364	50	0.200	0.364	55	29-168	10	30
Heptachlor Epoxide	0.045 U	0.249	0.364	69	0.280	0.364	77	29-180	12	30
Methoxychlor	0.045 U	0.263	0.364	72	0.289	0.364	80	38-162	10	30
alpha-BHC	0.033 J	0.268	0.364	65	0.303	0.364	74	27-154	12	30
alpha-Chlordane	0.045 U	0.243	0.364	67	0.272	0.364	75	35-160	11	30
beta-BHC	0.045 U	0.271	0.364	75	0.303	0.364	83	32-184	11	30
delta-BHC	0.068	0.272	0.364	56	0.317	0.364	68	10-182	15	30
gamma-BHC (Lindane)	0.037 J	0.268	0.364	64	0.305	0.364	74	43-164	13	30
gamma-Chlordane	0.028 JP	0.246	0.364	60	0.272	0.364	67	35-165	10	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006967-03

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Aldrin	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Dieldrin	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endrin	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Heptachlor	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
Toxaphene	0.50 U	0.50	0.50	1	07/01/20 16:36	6/30/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
beta-BHC	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
delta-BHC	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/01/20 16:36	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	58	10 - 164	07/01/20 16:36	
Tetrachloro-m-xylene	59	10 - 147	07/01/20 16:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007029-01

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Aldrin	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Dieldrin	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endrin	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Heptachlor	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Toxaphene	0.50 U	0.50	0.50	1	07/06/20 10:40	7/1/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
beta-BHC	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
delta-BHC	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 164	07/06/20 10:40	
Tetrachloro-m-xylene	75	10 - 147	07/06/20 10:40	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample			Duplicate Lab Control Sample			RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	0.289	0.400	72	0.242	0.400	61	42-159	17	30
4,4'-DDE	8081B	0.287	0.400	72	0.245	0.400	61	47-147	16	30
4,4'-DDT	8081B	0.267	0.400	67	0.224	0.400	56	41-149	18	30
Aldrin	8081B	0.222	0.400	56	0.195	0.400	49	22-137	13	30
Dieldrin	8081B	0.320	0.400	80	0.269	0.400	67	52-144	17	30
Endosulfan I	8081B	0.316	0.400	79	0.268	0.400	67	52-136	16	30
Endosulfan II	8081B	0.323	0.400	81	0.276	0.400	69	57-138	16	30
Endosulfan Sulfate	8081B	0.271	0.400	68	0.229	0.400	57	34-156	17	30
Endrin	8081B	0.310	0.400	78	0.264	0.400	66	56-143	16	30
Endrin Ketone	8081B	0.317	0.400	79	0.269	0.400	67	59-143	16	30
Heptachlor	8081B	0.222	0.400	55	0.196	0.400	49	32-141	12	30
Heptachlor Epoxide	8081B	0.313	0.400	78	0.266	0.400	66	51-143	16	30
Methoxychlor	8081B	0.269	0.400	67	0.240	0.400	60	56-149	11	30
alpha-BHC	8081B	0.301	0.400	75	0.250	0.400	62	36-151	19	30
alpha-Chlordane	8081B	0.303	0.400	76	0.259	0.400	65	50-139	15	30
beta-BHC	8081B	0.326	0.400	82	0.270	0.400	68	55-149	19	30
delta-BHC	8081B	0.287	0.400	72	0.237	0.400	59	29-159	19	30
gamma-BHC (Lindane)	8081B	0.303	0.400	76	0.251	0.400	63	41-149	19	30
gamma-Chlordane	8081B	0.295	0.400	74	0.253	0.400	63	50-140	15	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample			Duplicate Lab Control Sample			RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	0.260	0.400	65	0.268	0.400	67	42-159	3	30
4,4'-DDE	8081B	0.262	0.400	65	0.278	0.400	69	47-147	6	30
4,4'-DDT	8081B	0.251	0.400	63	0.275	0.400	69	41-149	9	30
Aldrin	8081B	0.216	0.400	54	0.219	0.400	55	22-137	1	30
Dieldrin	8081B	0.295	0.400	74	0.307	0.400	77	52-144	4	30
Endosulfan I	8081B	0.289	0.400	72	0.298	0.400	75	52-136	3	30
Endosulfan II	8081B	0.297	0.400	74	0.318	0.400	80	57-138	7	30
Endosulfan Sulfate	8081B	0.247	0.400	62	0.261	0.400	65	34-156	6	30
Endrin	8081B	0.282	0.400	71	0.300	0.400	75	56-143	6	30
Endrin Ketone	8081B	0.279	0.400	70	0.303	0.400	76	59-143	8	30
Heptachlor	8081B	0.190	0.400	47	0.189	0.400	47	32-141	<1	30
Heptachlor Epoxide	8081B	0.286	0.400	71	0.293	0.400	73	51-143	3	30
Methoxychlor	8081B	0.234	0.400	58	0.260	0.400	65	56-149	11	30
alpha-BHC	8081B	0.263	0.400	66	0.258	0.400	65	36-151	2	30
alpha-Chlordane	8081B	0.281	0.400	70	0.290	0.400	72	50-139	3	30
beta-BHC	8081B	0.290	0.400	72	0.293	0.400	73	55-149	1	30
delta-BHC	8081B	0.244	0.400	61	0.249	0.400	62	29-159	2	30
gamma-BHC (Lindane)	8081B	0.263	0.400	66	0.262	0.400	66	41-149	<1	30
gamma-Chlordane	8081B	0.275	0.400	69	0.283	0.400	71	50-140	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005520

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-062520-SG-013	R2005520-001	53	47
WG-9954-062520-SG-011	R2005520-002	41	45
WG-9954-062520-SG-008	R2005520-003	54	57
WG-9954-062520-SG-009	R2005520-004	30	59
WG-9954-062520-SG-012	R2005520-005	60	46
RB-9954-062520-SG-001	R2005520-006	10	47
WG-9954-062520-SG-010	R2005520-008	28	39
Method Blank	RQ2006967-03	56	51
Method Blank	RQ2007029-01	89	70
Lab Control Sample	RQ2006967-04	56	49
Duplicate Lab Control Sample	RQ2006967-05	58	49
Lab Control Sample	RQ2007029-02	71	53
Duplicate Lab Control Sample	RQ2007029-03	68	49
WG-9954-062520-SG-012 MS	RQ2006967-01	54	36
WG-9954-062520-SG-012 DMS	RQ2006967-02	84	50
RB-9954-062520-SG-001 MS	RQ2007029-04	7*	34
RB-9954-062520-SG-001 DMS	RQ2007029-05	9*	39

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dba ALS Environmental

QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005520
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	06/25/20
Sample Matrix:	Water	Date Received:	06/26/20
		Date Analyzed:	07/8/20
		Date Extracted:	06/30/20

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	WG-9954-062520-SG-012	Units:	ug/L
Lab Code:	R2005520-005	Basis:	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

Analyte Name	Sample Result	Matrix Spike RQ2006967-01			Duplicate Matrix Spike RQ2006967-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1016	0.91 U	2.23	3.64	61	2.49	3.64	68	32-142	11	30
Aroclor 1260	0.91 U	2.24	3.64	62	2.96	3.64	81	28-142	28	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005520
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	06/25/20
Sample Matrix:	Water	Date Received:	06/26/20
		Date Analyzed:	07/6/20
		Date Extracted:	07/1/20

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	RB-9954-062520-SG-001	Units:	ug/L
Lab Code:	R2005520-006	Basis:	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

Analyte Name	Matrix Spike RQ2007029-04				Duplicate Matrix Spike RQ2007029-05				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Aroclor 1016	0.91 U	1.73	3.64	48	2.26	3.64	62	32-142	26		30
Aroclor 1260	0.91 U	1.14	3.64	31	1.64	3.64	45	28-142	36*		30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2006967-03

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/01/20 17:28	6/30/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/01/20 17:28	6/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 152	07/01/20 17:28	
Tetrachloro-m-xylene	51	14 - 129	07/01/20 17:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007029-01

Service Request: R2005520
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/06/20 11:40	7/1/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 152	07/06/20 11:40	
Tetrachloro-m-xylene	70	14 - 129	07/06/20 11:40	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/01/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2006967-04					RQ2006967-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	2.57	4.00	64	2.65	4.00	66	49-123	3	30
Aroclor 1260	8082A	2.77	4.00	69	2.87	4.00	72	30-120	4	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005520
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2007029-02			RQ2007029-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	2.88	4.00	72	2.96	4.00	74	49-123	2	30
Aroclor 1260	8082A	3.52	4.00	88	3.35	4.00	84	30-120	5	30



July 15, 2020

Service Request No:R2005539

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory June 27, 2020
For your reference, these analyses have been assigned our service request number **R2005539**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005539
Date Received: 06/27/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 06/27/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/06/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, R2005539-005: The control limits were exceeded for one or more surrogates. A reanalysis was not performed because insufficient sample was available. No further corrective action was possible.

Semivolatile GC:

Method 8081B, 07/07/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/07/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/06/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC/MS:

Method 8260C, 07/01/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 07/01/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/07/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by



Date

07/15/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062620-RM-014	Lab ID: R2005539-001
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4-Methyl-2-pentanone	2.4	J	0.20	10	ug/L	8260C
Carbon Disulfide	4.0	J	0.42	10	ug/L	8260C
Chloromethane	0.30	J	0.28	5.0	ug/L	8260C
Bis(2-ethylhexyl) Phthalate	2.2	J	0.91	9.1	ug/L	8270D
alpha-BHC	0.088		0.019	0.045	ug/L	8081B
beta-BHC	0.036	J	0.019	0.045	ug/L	8081B
delta-BHC	0.32		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.11		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-062620-RM-015	Lab ID: R2005539-002
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	2.7	J	0.42	10	ug/L	8260C
Chloromethane	0.35	J	0.28	5.0	ug/L	8260C
alpha-BHC	0.064		0.019	0.045	ug/L	8081B
delta-BHC	0.042	J	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.060		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-062620-RM-016	Lab ID: R2005539-003
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	1.9	J	0.42	10	ug/L	8260C
alpha-BHC	0.097		0.019	0.045	ug/L	8081B
delta-BHC	0.10		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.096		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-062620-RM-017	Lab ID: R2005539-004
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Chloromethane	0.38	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-062620-RM-018	Lab ID: R2005539-005
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	1.2	J	0.42	10	ug/L	8260C
4,4'-DDE	0.029	J	0.019	0.045	ug/L	8081B
Endosulfan I	0.037	J	0.019	0.045	ug/L	8081B
beta-BHC	0.045	JP	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.026	J	0.019	0.045	ug/L	8081B
gamma-Chlordane	0.020	JP	0.019	0.045	ug/L	8081B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005539

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005539-001	WG-9954-062620-RM-014	6/26/2020	0850
R2005539-002	WG-9954-062620-RM-015	6/26/2020	1000
R2005539-003	WG-9954-062620-RM-016	6/26/2020	1105
R2005539-004	WG-9954-062620-RM-017	6/26/2020	1155
R2005539-005	WG-9954-062620-RM-018	6/26/2020	1240
R2005539-006	TB-9954-062620-RM-003	6/26/2020	0000

CHAIN OF CUSTODY RECORD

COC NO.: 55210

Address: N.F. Office

PAGE 1 OF 1

Phone:



Fax:

[illegible]

TAT Required in business days (use separate COCs for different TATs):

☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Notes/ Special Requirements:

RELINQUISHED BY		COMPANY	DATE	TIME	RECEIVED BY		COMPANY	DATE	TIME
1.		GHD	6/26/20	1405	1.		ALB	6-27-2020	0815G
2.					2.				
3.					3.				

Page 7 of 90

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampler

R2005539

GHD Services Inc.
 Love Canal: 292-402-002-3100

4





SR#

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

004, 005, 006, 007, 008, 009, 010,
011, 012, 013

T030477

Project Name: Love Canal:292-402-D02-3100		NUMBER OF CONTAINERS	7D	14D						
Project Number: 9954 Annual Long Term Monitoring	Report To Kathy Willy									
Company / Address GHD Services Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls NY, 14304			B1B / Pest OC	32A / PCB	70D / SVO	90C / VOC FP				
Phone # 716-297-2160	FAX # 716-287-2265									
Sampler Signature			Sampler Printed Name							

[illegible]Special Instructions/Comments:

Turnaround Requirements

RUSH (SURCHARGES APPLY)

Standard (3 weeks)

REQUESTED FAX DATE

Requested Report Date

Report Requirements

 I. Results Only

II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

III. Results + OC and Calibration Summaries

X IV. Data Validation Report
with Raw Data

EData	Yes	No
-------	-----	----

Invoice Information

P.O.#

Bill To:

Circumstance	Percentage (%)
If someone is attacking you	85
If someone is threatening you	75
If someone is harassing you	65
If someone is insulting you	55
If someone is annoying you	45

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form

R2005539

5

GHD Services Inc.
Love Canal: 292-402-D02-3100

Project/Client

GHD

Folder Number

Cooler received on

6-27-2020

by:

HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	N
2	Custody papers properly completed (ink, signed)?	Y	N
3	Did all bottles arrive in good condition (unbroken)?	Y	N
4	Circle: Wet Ice Dry Ice Gel packs present?	Y	N

5a	Perchlorate samples have required headspace?	Y	N	NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	NA
6	Where did the bottles originate?	ALS/ROC	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set NA

3. Temperature Readings

Date: 6-27-2020

Time: 08:57

ID: IR#7

IR#10

From: Temp Blank

Sample Bottle

Observed Temp (°C)	1.7							
Within 0-6°C?	Y	N	Y	N	Y	N	Y	N
If <0°C, were samples frozen?	Y	N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location:

ROU

by

HE

on

6-27-2020

at

09:00

5035 samples placed in storage location:

by

on

at

within 48 hours of sampling?

Y

N

Cooler Breakdown/Preservation Check**:

Date: 6/29/2020

Time: 12:18

by: R

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

YES

NO

10. Did all bottle labels and tags agree with custody papers?

YES

NO

11. Were correct containers used for the tests indicated?

YES

NO

12. Were 5035 vials acceptable (no extra labels, not leaking)?

YES

NO

13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized

Tedlar® Bags Inflated

N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers:

051120-18MC, client approval

Explain all Discrepancies/ Other Comments:

* Trip Blank: All 3 vials

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @

PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Page 9 of 90



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005539

Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005539

Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method

8082A
8260C
8270D

Extracted/Digested By

KSERCU

KSERCU

Analyzed By

BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
FNAEGLER
JMISIUREWICZ

Sample Name: TB-9954-062620-RM-003
Lab Code: R2005539-006
Sample Matrix: Water

Date Collected: 06/26/20
Date Received: 06/27/20

Analysis Method

8260C

Extracted/Digested By

Analyzed By

FNAEGLER



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 03:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 03:34	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 03:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 03:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 03:34	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 03:34	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 03:34	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 03:34	
2-Hexanone	10 U	10	0.20	1	07/01/20 03:34	
4-Methyl-2-pentanone	2.4 J	10	0.20	1	07/01/20 03:34	
Acetone	10 U	10	5.0	1	07/01/20 03:34	
Benzene	5.0 U	5.0	0.20	1	07/01/20 03:34	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 03:34	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 03:34	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 03:34	
Carbon Disulfide	4.0 J	10	0.42	1	07/01/20 03:34	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 03:34	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 03:34	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 03:34	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 03:34	
Chloromethane	0.30 J	5.0	0.28	1	07/01/20 03:34	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 03:34	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 03:34	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 03:34	
Styrene	5.0 U	5.0	0.20	1	07/01/20 03:34	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 03:34	
Toluene	5.0 U	5.0	0.20	1	07/01/20 03:34	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 03:34	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 03:34	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 03:34	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 03:34	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 03:34	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 03:34	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 03:34	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 03:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/01/20 03:34	
Dibromofluoromethane	94	89 - 119	07/01/20 03:34	
Toluene-d8	94	87 - 121	07/01/20 03:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.32	8.5	J
000110-93-0	5-Hepten-2-one, 6-methyl-	11.53	10.2	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 03:56	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 03:56	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 03:56	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 03:56	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 03:56	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 03:56	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 03:56	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 03:56	
2-Hexanone	10 U	10	0.20	1	07/01/20 03:56	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 03:56	
Acetone	10 U	10	5.0	1	07/01/20 03:56	
Benzene	5.0 U	5.0	0.20	1	07/01/20 03:56	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 03:56	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 03:56	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 03:56	
Carbon Disulfide	2.7 J	10	0.42	1	07/01/20 03:56	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 03:56	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 03:56	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 03:56	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 03:56	
Chloromethane	0.35 J	5.0	0.28	1	07/01/20 03:56	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 03:56	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 03:56	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 03:56	
Styrene	5.0 U	5.0	0.20	1	07/01/20 03:56	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 03:56	
Toluene	5.0 U	5.0	0.20	1	07/01/20 03:56	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 03:56	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 03:56	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 03:56	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 03:56	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 03:56	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 03:56	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 03:56	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 03:56	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	07/01/20 03:56	
Dibromofluoromethane	100	89 - 119	07/01/20 03:56	
Toluene-d8	98	87 - 121	07/01/20 03:56	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000420-56-4	Silane, fluorotrimethyl-	1.32	10.2	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/07/20 21:25	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/07/20 21:25	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/07/20 21:25	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/07/20 21:25	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/07/20 21:25	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/07/20 21:25	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/07/20 21:25	
2-Butanone (MEK)	10 U	10	0.78	1	07/07/20 21:25	
2-Hexanone	10 U	10	0.20	1	07/07/20 21:25	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/07/20 21:25	
Acetone	10 U	10	5.0	1	07/07/20 21:25	
Benzene	5.0 U	5.0	0.20	1	07/07/20 21:25	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/07/20 21:25	
Bromoform	5.0 U	5.0	0.25	1	07/07/20 21:25	
Bromomethane	5.0 U	5.0	0.70	1	07/07/20 21:25	
Carbon Disulfide	1.9 J	10	0.42	1	07/07/20 21:25	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/07/20 21:25	
Chlorobenzene	5.0 U	5.0	0.20	1	07/07/20 21:25	
Chloroethane	5.0 U	5.0	0.23	1	07/07/20 21:25	
Chloroform	5.0 U	5.0	0.24	1	07/07/20 21:25	
Chloromethane	5.0 U	5.0	0.28	1	07/07/20 21:25	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/07/20 21:25	
Dichloromethane	5.0 U	5.0	0.65	1	07/07/20 21:25	
Ethylbenzene	5.0 U	5.0	0.20	1	07/07/20 21:25	
Styrene	5.0 U	5.0	0.20	1	07/07/20 21:25	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/07/20 21:25	
Toluene	5.0 U	5.0	0.20	1	07/07/20 21:25	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/07/20 21:25	
Vinyl Acetate	10 U	10	1.1	1	07/07/20 21:25	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/07/20 21:25	
Xylenes, Total	5.0 U	5.0	0.23	1	07/07/20 21:25	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/07/20 21:25	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/07/20 21:25	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/07/20 21:25	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/07/20 21:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	07/07/20 21:25	
Dibromofluoromethane	104	89 - 119	07/07/20 21:25	
Toluene-d8	104	87 - 121	07/07/20 21:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.26	71.1	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 04:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 04:40	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 04:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 04:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 04:40	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 04:40	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 04:40	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 04:40	
2-Hexanone	10 U	10	0.20	1	07/01/20 04:40	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 04:40	
Acetone	10 U	10	5.0	1	07/01/20 04:40	
Benzene	5.0 U	5.0	0.20	1	07/01/20 04:40	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 04:40	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 04:40	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 04:40	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 04:40	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 04:40	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 04:40	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 04:40	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 04:40	
Chloromethane	0.38 J	5.0	0.28	1	07/01/20 04:40	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 04:40	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 04:40	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 04:40	
Styrene	5.0 U	5.0	0.20	1	07/01/20 04:40	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 04:40	
Toluene	5.0 U	5.0	0.20	1	07/01/20 04:40	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 04:40	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 04:40	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 04:40	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 04:40	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 04:40	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 04:40	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 04:40	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 04:40	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	07/01/20 04:40	
Dibromofluoromethane	93	89 - 119	07/01/20 04:40	
Toluene-d8	94	87 - 121	07/01/20 04:40	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/07/20 21:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/07/20 21:46	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/07/20 21:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/07/20 21:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/07/20 21:46	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/07/20 21:46	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/07/20 21:46	
2-Butanone (MEK)	10 U	10	0.78	1	07/07/20 21:46	
2-Hexanone	10 U	10	0.20	1	07/07/20 21:46	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/07/20 21:46	
Acetone	10 U	10	5.0	1	07/07/20 21:46	
Benzene	5.0 U	5.0	0.20	1	07/07/20 21:46	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/07/20 21:46	
Bromoform	5.0 U	5.0	0.25	1	07/07/20 21:46	
Bromomethane	5.0 U	5.0	0.70	1	07/07/20 21:46	
Carbon Disulfide	1.2 J	10	0.42	1	07/07/20 21:46	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/07/20 21:46	
Chlorobenzene	5.0 U	5.0	0.20	1	07/07/20 21:46	
Chloroethane	5.0 U	5.0	0.23	1	07/07/20 21:46	
Chloroform	5.0 U	5.0	0.24	1	07/07/20 21:46	
Chloromethane	5.0 U	5.0	0.28	1	07/07/20 21:46	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/07/20 21:46	
Dichloromethane	5.0 U	5.0	0.65	1	07/07/20 21:46	
Ethylbenzene	5.0 U	5.0	0.20	1	07/07/20 21:46	
Styrene	5.0 U	5.0	0.20	1	07/07/20 21:46	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/07/20 21:46	
Toluene	5.0 U	5.0	0.20	1	07/07/20 21:46	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/07/20 21:46	
Vinyl Acetate	10 U	10	1.1	1	07/07/20 21:46	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/07/20 21:46	
Xylenes, Total	5.0 U	5.0	0.23	1	07/07/20 21:46	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/07/20 21:46	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/07/20 21:46	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/07/20 21:46	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/07/20 21:46	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	07/07/20 21:46	
Dibromofluoromethane	103	89 - 119	07/07/20 21:46	
Toluene-d8	103	87 - 121	07/07/20 21:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.23	35.9	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062620-RM-003
Lab Code: R2005539-006

Service Request: R2005539
Date Collected: 06/26/20 00:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/01/20 00:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/01/20 00:15	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/01/20 00:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/01/20 00:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/01/20 00:15	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/01/20 00:15	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/01/20 00:15	
2-Butanone (MEK)	10 U	10	0.78	1	07/01/20 00:15	
2-Hexanone	10 U	10	0.20	1	07/01/20 00:15	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/01/20 00:15	
Acetone	10 U	10	5.0	1	07/01/20 00:15	
Benzene	5.0 U	5.0	0.20	1	07/01/20 00:15	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/01/20 00:15	
Bromoform	5.0 U	5.0	0.25	1	07/01/20 00:15	
Bromomethane	5.0 U	5.0	0.70	1	07/01/20 00:15	
Carbon Disulfide	10 U	10	0.42	1	07/01/20 00:15	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/01/20 00:15	
Chlorobenzene	5.0 U	5.0	0.20	1	07/01/20 00:15	
Chloroethane	5.0 U	5.0	0.23	1	07/01/20 00:15	
Chloroform	5.0 U	5.0	0.24	1	07/01/20 00:15	
Chloromethane	5.0 U	5.0	0.28	1	07/01/20 00:15	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/01/20 00:15	
Dichloromethane	5.0 U	5.0	0.65	1	07/01/20 00:15	
Ethylbenzene	5.0 U	5.0	0.20	1	07/01/20 00:15	
Styrene	5.0 U	5.0	0.20	1	07/01/20 00:15	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/01/20 00:15	
Toluene	5.0 U	5.0	0.20	1	07/01/20 00:15	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/01/20 00:15	
Vinyl Acetate	10 U	10	1.1	1	07/01/20 00:15	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/01/20 00:15	
Xylenes, Total	5.0 U	5.0	0.23	1	07/01/20 00:15	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/01/20 00:15	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/01/20 00:15	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/01/20 00:15	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/01/20 00:15	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062620-RM-003
Lab Code: R2005539-006

Service Request: R2005539
Date Collected: 06/26/20 00:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	07/01/20 00:15	
Dibromofluoromethane	89	89 - 119	07/01/20 00:15	
Toluene-d8	93	87 - 121	07/01/20 00:15	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-062620-RM-003
Lab Code: R2005539-006

Service Request: R2005539
Date Collected: 06/26/20 00:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 10:32	7/1/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 10:32	7/1/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 10:32	7/1/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 10:32	7/1/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 10:32	7/1/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 10:32	7/1/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 10:32	7/1/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 10:32	7/1/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 10:32	7/1/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 10:32	7/1/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 10:32	7/1/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 10:32	7/1/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 10:32	7/1/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 10:32	7/1/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 10:32	7/1/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 10:32	7/1/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 10:32	7/1/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
Benzoic Acid	91 U	91	33	1	07/06/20 10:32	7/1/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 10:32	7/1/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 10:32	7/1/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
Bis(2-ethylhexyl) Phthalate	2.2 J	9.1	0.91	1	07/06/20 10:32	7/1/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 10:32	7/1/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 10:32	7/1/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 10:32	7/1/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 10:32	7/1/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 10:32	7/1/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 10:32	7/1/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 10:32	7/1/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 10:32	7/1/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 10:32	7/1/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 10:32	7/1/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 10:32	7/1/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 10:32	7/1/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 10:32	7/1/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 10:32	7/1/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 10:32	7/1/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 10:32	7/1/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 10:32	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	07/06/20 10:32	
2-Fluorobiphenyl	63	31 - 118	07/06/20 10:32	
2-Fluorophenol	42	10 - 105	07/06/20 10:32	
Nitrobenzene-d5	60	31 - 110	07/06/20 10:32	
Phenol-d6	30	10 - 107	07/06/20 10:32	
p-Terphenyl-d14	48	10 - 165	07/06/20 10:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	6.30	5.2	J
	unknown	6.51	24	J
013798-23-7	Sulfur	7.81	14	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 11:00	7/1/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 11:00	7/1/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 11:00	7/1/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 11:00	7/1/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 11:00	7/1/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 11:00	7/1/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 11:00	7/1/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 11:00	7/1/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 11:00	7/1/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 11:00	7/1/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 11:00	7/1/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 11:00	7/1/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 11:00	7/1/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 11:00	7/1/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 11:00	7/1/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 11:00	7/1/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 11:00	7/1/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
Benzoic Acid	91 U	91	33	1	07/06/20 11:00	7/1/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 11:00	7/1/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 11:00	7/1/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 11:00	7/1/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 11:00	7/1/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 11:00	7/1/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 11:00	7/1/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 11:00	7/1/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 11:00	7/1/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 11:00	7/1/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 11:00	7/1/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 11:00	7/1/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 11:00	7/1/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 11:00	7/1/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 11:00	7/1/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 11:00	7/1/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 11:00	7/1/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 11:00	7/1/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 11:00	7/1/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 11:00	7/1/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 11:00	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	07/06/20 11:00	
2-Fluorobiphenyl	57	31 - 118	07/06/20 11:00	
2-Fluorophenol	40	10 - 105	07/06/20 11:00	
Nitrobenzene-d5	56	31 - 110	07/06/20 11:00	
Phenol-d6	30	10 - 107	07/06/20 11:00	
p-Terphenyl-d14	59	10 - 165	07/06/20 11:00	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	5.9	J
	unknown hydrocarbon	11.88	8.6	J
	unknown hydrocarbon	12.48	10	J
	unknown hydrocarbon	13.12	10	J
	unknown hydrocarbon	13.82	9.0	J
	unknown hydrocarbon	14.57	7.5	J
	unknown hydrocarbon	15.36	5.7	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	unknown hydrocarbon	16.11	4.3	J
	Sulfur	7.76	5.1	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 11:27	7/1/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 11:27	7/1/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 11:27	7/1/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 11:27	7/1/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 11:27	7/1/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 11:27	7/1/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 11:27	7/1/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 11:27	7/1/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 11:27	7/1/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 11:27	7/1/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 11:27	7/1/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 11:27	7/1/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 11:27	7/1/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 11:27	7/1/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 11:27	7/1/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 11:27	7/1/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 11:27	7/1/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
Benzoic Acid	91 U	91	33	1	07/06/20 11:27	7/1/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 11:27	7/1/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 11:27	7/1/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 11:27	7/1/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 11:27	7/1/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 11:27	7/1/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 11:27	7/1/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 11:27	7/1/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 11:27	7/1/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 11:27	7/1/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 11:27	7/1/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 11:27	7/1/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 11:27	7/1/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 11:27	7/1/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 11:27	7/1/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 11:27	7/1/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 11:27	7/1/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 11:27	7/1/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 11:27	7/1/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 11:27	7/1/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 11:27	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	07/06/20 11:27	
2-Fluorobiphenyl	64	31 - 118	07/06/20 11:27	
2-Fluorophenol	35	10 - 105	07/06/20 11:27	
Nitrobenzene-d5	57	31 - 110	07/06/20 11:27	
Phenol-d6	27	10 - 107	07/06/20 11:27	
p-Terphenyl-d14	58	10 - 165	07/06/20 11:27	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	6.9	J
	unknown hydrocarbon	11.88	11	J
	unknown hydrocarbon	12.48	15	J
	unknown hydrocarbon	13.12	15	J
	unknown hydrocarbon	13.83	12	J
	unknown hydrocarbon	14.57	12	J
	unknown hydrocarbon	15.36	8.9	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	unknown hydrocarbon	16.11	5.6	J
	Sulfur	7.75	4.0	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 11:55	7/1/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 11:55	7/1/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 11:55	7/1/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 11:55	7/1/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 11:55	7/1/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 11:55	7/1/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 11:55	7/1/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 11:55	7/1/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 11:55	7/1/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 11:55	7/1/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 11:55	7/1/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 11:55	7/1/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 11:55	7/1/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 11:55	7/1/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 11:55	7/1/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 11:55	7/1/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 11:55	7/1/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
Benzoic Acid	91 U	91	33	1	07/06/20 11:55	7/1/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 11:55	7/1/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 11:55	7/1/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 11:55	7/1/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 11:55	7/1/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 11:55	7/1/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 11:55	7/1/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 11:55	7/1/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 11:55	7/1/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 11:55	7/1/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 11:55	7/1/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 11:55	7/1/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 11:55	7/1/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 11:55	7/1/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 11:55	7/1/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 11:55	7/1/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 11:55	7/1/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 11:55	7/1/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 11:55	7/1/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 11:55	7/1/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 11:55	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	07/06/20 11:55	
2-Fluorobiphenyl	70	31 - 118	07/06/20 11:55	
2-Fluorophenol	41	10 - 105	07/06/20 11:55	
Nitrobenzene-d5	68	31 - 110	07/06/20 11:55	
Phenol-d6	32	10 - 107	07/06/20 11:55	
p-Terphenyl-d14	57	10 - 165	07/06/20 11:55	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	4.8	J
	unknown hydrocarbon	11.88	7.6	J
	unknown	12.48	11	J
	unknown hydrocarbon	13.12	11	J
	unknown hydrocarbon	13.83	8.4	J
	unknown hydrocarbon	14.58	8.2	J
	unknown hydrocarbon	15.36	5.9	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	16.11	5.1	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 12:23	7/1/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 12:23	7/1/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 12:23	7/1/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 12:23	7/1/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 12:23	7/1/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 12:23	7/1/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 12:23	7/1/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 12:23	7/1/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 12:23	7/1/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 12:23	7/1/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 12:23	7/1/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 12:23	7/1/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 12:23	7/1/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 12:23	7/1/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 12:23	7/1/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 12:23	7/1/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 12:23	7/1/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
Benzoic Acid	91 U	91	33	1	07/06/20 12:23	7/1/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 12:23	7/1/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 12:23	7/1/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 12:23	7/1/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 12:23	7/1/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 12:23	7/1/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 12:23	7/1/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 12:23	7/1/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 12:23	7/1/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 12:23	7/1/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 12:23	7/1/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 12:23	7/1/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 12:23	7/1/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 12:23	7/1/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 12:23	7/1/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 12:23	7/1/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 12:23	7/1/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 12:23	7/1/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 12:23	7/1/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 12:23	7/1/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 12:23	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	07/06/20 12:23	
2-Fluorobiphenyl	62	31 - 118	07/06/20 12:23	
2-Fluorophenol	40	10 - 105	07/06/20 12:23	
Nitrobenzene-d5	60	31 - 110	07/06/20 12:23	
Phenol-d6	30	10 - 107	07/06/20 12:23	
p-Terphenyl-d14	69	10 - 165	07/06/20 12:23	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.35	5.0	J
	unknown hydrocarbon	11.89	7.2	J
	unknown hydrocarbon	12.48	9.9	J
	unknown hydrocarbon	13.13	9.6	J
	unknown hydrocarbon	13.83	8.3	J
	unknown hydrocarbon	14.58	7.3	J
	unknown	15.36	5.3	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	7.79	9.1	JN



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/06/20 12:16	7/1/20	
alpha-BHC	0.088	0.045	0.019	1	07/06/20 12:16	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	
beta-BHC	0.036 J	0.045	0.019	1	07/06/20 12:16	7/1/20	
delta-BHC	0.32	0.045	0.019	1	07/06/20 12:16	7/1/20	
gamma-BHC (Lindane)	0.11	0.045	0.019	1	07/06/20 12:16	7/1/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/06/20 12:16	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 164	07/06/20 12:16	
Tetrachloro-m-xylene	52	10 - 147	07/06/20 12:16	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/07/20 16:01	7/1/20	
alpha-BHC	0.064	0.045	0.019	1	07/07/20 16:01	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
beta-BHC	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	
delta-BHC	0.042 J	0.045	0.019	1	07/07/20 16:01	7/1/20	
gamma-BHC (Lindane)	0.060	0.045	0.019	1	07/07/20 16:01	7/1/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/07/20 16:01	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 164	07/07/20 16:01	
Tetrachloro-m-xylene	59	10 - 147	07/07/20 16:01	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/07/20 16:20	7/1/20	
alpha-BHC	0.097	0.045	0.019	1	07/07/20 16:20	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
beta-BHC	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	
delta-BHC	0.10	0.045	0.019	1	07/07/20 16:20	7/1/20	
gamma-BHC (Lindane)	0.096	0.045	0.019	1	07/07/20 16:20	7/1/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/07/20 16:20	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	55	10 - 164	07/07/20 16:20	
Tetrachloro-m-xylene	44	10 - 147	07/07/20 16:20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/07/20 16:39	7/1/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
beta-BHC	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
delta-BHC	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/07/20 16:39	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	33	10 - 164	07/07/20 16:39	
Tetrachloro-m-xylene	54	10 - 147	07/07/20 16:39	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
4,4'-DDE	0.029 J	0.045	0.019	1	07/08/20 18:05	7/1/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Endosulfan I	0.037 J	0.045	0.019	1	07/08/20 18:05	7/1/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 18:05	7/1/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
beta-BHC	0.045 JP	0.045	0.019	1	07/08/20 18:05	7/1/20	
delta-BHC	0.045 U	0.045	0.019	1	07/08/20 18:05	7/1/20	
gamma-BHC (Lindane)	0.026 J	0.045	0.019	1	07/08/20 18:05	7/1/20	
gamma-Chlordane	0.020 JP	0.045	0.019	1	07/08/20 18:05	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	3 *	10 - 164	07/08/20 18:05	*
Tetrachloro-m-xylene	34	10 - 147	07/08/20 18:05	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-014
Lab Code: R2005539-001

Service Request: R2005539
Date Collected: 06/26/20 08:50
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/07/20 20:03	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/07/20 20:03	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/07/20 20:03	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/07/20 20:03	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/07/20 20:03	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/07/20 20:03	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/07/20 20:03	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 152	07/07/20 20:03	
Tetrachloro-m-xylene	44	14 - 129	07/07/20 20:03	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-015
Lab Code: R2005539-002

Service Request: R2005539
Date Collected: 06/26/20 10:00
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/07/20 20:23	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/07/20 20:23	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/07/20 20:23	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/07/20 20:23	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/07/20 20:23	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/07/20 20:23	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/07/20 20:23	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 152	07/07/20 20:23	
Tetrachloro-m-xylene	43	14 - 129	07/07/20 20:23	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-016
Lab Code: R2005539-003

Service Request: R2005539
Date Collected: 06/26/20 11:05
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/07/20 20:43	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/07/20 20:43	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/07/20 20:43	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/07/20 20:43	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/07/20 20:43	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/07/20 20:43	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/07/20 20:43	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 152	07/07/20 20:43	
Tetrachloro-m-xylene	29	14 - 129	07/07/20 20:43	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-017
Lab Code: R2005539-004

Service Request: R2005539
Date Collected: 06/26/20 11:55
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/06/20 15:26	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/06/20 15:26	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/06/20 15:26	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/06/20 15:26	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/06/20 15:26	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/06/20 15:26	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/06/20 15:26	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 152	07/06/20 15:26	
Tetrachloro-m-xylene	37	14 - 129	07/06/20 15:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005

Service Request: R2005539
Date Collected: 06/26/20 12:40
Date Received: 06/27/20 08:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/06/20 15:45	7/1/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/06/20 15:45	7/1/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/06/20 15:45	7/1/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/06/20 15:45	7/1/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/06/20 15:45	7/1/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/06/20 15:45	7/1/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/06/20 15:45	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	11	10 - 152	07/06/20 15:45	
Tetrachloro-m-xylene	43	14 - 129	07/06/20 15:45	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005539

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
WG-9954-062620-RM-014	R2005539-001	93	94	94
WG-9954-062620-RM-015	R2005539-002	98	100	98
WG-9954-062620-RM-016	R2005539-003	105	104	104
WG-9954-062620-RM-017	R2005539-004	92	93	94
WG-9954-062620-RM-018	R2005539-005	102	103	103
TB-9954-062620-RM-003	R2005539-006	91	89	93
Method Blank	RQ2007141-04	90	89	91
Method Blank	RQ2007251-04	101	102	100
Lab Control Sample	RQ2007141-03	95	95	93
Lab Control Sample	RQ2007251-03	102	103	101

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/20 23:08	
2-Butanone (MEK)	10 U	10	0.78	1	06/30/20 23:08	
2-Hexanone	10 U	10	0.20	1	06/30/20 23:08	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/20 23:08	
Acetone	10 U	10	5.0	1	06/30/20 23:08	
Benzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
Bromoform	5.0 U	5.0	0.25	1	06/30/20 23:08	
Bromomethane	5.0 U	5.0	0.70	1	06/30/20 23:08	
Carbon Disulfide	10 U	10	0.42	1	06/30/20 23:08	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/20 23:08	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Chloroethane	5.0 U	5.0	0.23	1	06/30/20 23:08	
Chloroform	5.0 U	5.0	0.24	1	06/30/20 23:08	
Chloromethane	5.0 U	5.0	0.28	1	06/30/20 23:08	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/20 23:08	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/20 23:08	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Styrene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/20 23:08	
Toluene	5.0 U	5.0	0.20	1	06/30/20 23:08	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/20 23:08	
Vinyl Acetate	10 U	10	1.1	1	06/30/20 23:08	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/20 23:08	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/20 23:08	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/20 23:08	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/20 23:08	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/20 23:08	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/20 23:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/30/20 23:08	
Dibromofluoromethane	89	89 - 119	06/30/20 23:08	
Toluene-d8	91	87 - 121	06/30/20 23:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007141-04

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007251-04

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/07/20 17:23	
2-Butanone (MEK)	10 U	10	0.78	1	07/07/20 17:23	
2-Hexanone	10 U	10	0.20	1	07/07/20 17:23	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/07/20 17:23	
Acetone	10 U	10	5.0	1	07/07/20 17:23	
Benzene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
Bromoform	5.0 U	5.0	0.25	1	07/07/20 17:23	
Bromomethane	5.0 U	5.0	0.70	1	07/07/20 17:23	
Carbon Disulfide	10 U	10	0.42	1	07/07/20 17:23	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/07/20 17:23	
Chlorobenzene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Chloroethane	5.0 U	5.0	0.23	1	07/07/20 17:23	
Chloroform	5.0 U	5.0	0.24	1	07/07/20 17:23	
Chloromethane	5.0 U	5.0	0.28	1	07/07/20 17:23	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/07/20 17:23	
Dichloromethane	5.0 U	5.0	0.65	1	07/07/20 17:23	
Ethylbenzene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Styrene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/07/20 17:23	
Toluene	5.0 U	5.0	0.20	1	07/07/20 17:23	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/07/20 17:23	
Vinyl Acetate	10 U	10	1.1	1	07/07/20 17:23	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/07/20 17:23	
Xylenes, Total	5.0 U	5.0	0.23	1	07/07/20 17:23	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/07/20 17:23	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/07/20 17:23	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/07/20 17:23	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/07/20 17:23	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007251-04

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	07/07/20 17:23	
Dibromofluoromethane	102	89 - 119	07/07/20 17:23	
Toluene-d8	100	87 - 121	07/07/20 17:23	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007251-04

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 06/30/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007141-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.6	20.0	108	75-125
1,1,2,2-Tetrachloroethane	8260C	26.2	20.0	131 *	78-126
1,1,2-Trichloroethane	8260C	22.0	20.0	110	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.8	20.0	104	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.3	20.0	101	71-118
1,2-Dichloroethane	8260C	19.5	20.0	98	71-127
1,2-Dichloropropane	8260C	21.2	20.0	106	80-119
2-Butanone (MEK)	8260C	16.9	20.0	85	61-137
2-Hexanone	8260C	17.3	20.0	87	63-124
4-Methyl-2-pentanone	8260C	17.2	20.0	86	66-124
Acetone	8260C	20.1	20.0	101	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromodichloromethane	8260C	21.4	20.0	107	81-123
Bromoform	8260C	22.5	20.0	113	65-146
Bromomethane	8260C	14.4	20.0	72	42-166
Carbon Disulfide	8260C	17.2	20.0	86	66-128
Carbon Tetrachloride	8260C	21.4	20.0	107	70-127
Chlorobenzene	8260C	21.9	20.0	109	80-121
Chloroethane	8260C	16.2	20.0	81	62-131
Chloroform	8260C	21.1	20.0	105	79-120
Chloromethane	8260C	17.5	20.0	87	65-135
Dibromochloromethane	8260C	23.1	20.0	116	72-128
Dichloromethane	8260C	20.7	20.0	103	73-122
Ethylbenzene	8260C	22.5	20.0	113	76-120
Styrene	8260C	22.5	20.0	112	80-124
Tetrachloroethene (PCE)	8260C	21.6	20.0	108	72-125
Toluene	8260C	21.5	20.0	107	79-119
Trichloroethene (TCE)	8260C	18.3	20.0	91	74-122
Vinyl Acetate	8260C	23.8	20.0	119	52-174
Vinyl Chloride	8260C	17.0	20.0	85	74-159
cis-1,2-Dichloroethene	8260C	22.1	20.0	111	80-121
cis-1,3-Dichloropropene	8260C	21.4	20.0	107	77-122
trans-1,2-Dichloroethene	8260C	21.1	20.0	105	73-118

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dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 06/30/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007141-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	21.6	20.0	108	71-133

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 07/07/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007251-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.1	20.0	95	75-125
1,1,2,2-Tetrachloroethane	8260C	21.7	20.0	108	78-126
1,1,2-Trichloroethane	8260C	20.6	20.0	103	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.6	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.3	20.0	112	71-118
1,2-Dichloroethane	8260C	19.0	20.0	95	71-127
1,2-Dichloropropane	8260C	18.3	20.0	92	80-119
2-Butanone (MEK)	8260C	21.7	20.0	109	61-137
2-Hexanone	8260C	19.5	20.0	98	63-124
4-Methyl-2-pentanone	8260C	20.4	20.0	102	66-124
Acetone	8260C	26.2	20.0	131	40-161
Benzene	8260C	19.2	20.0	96	79-119
Bromodichloromethane	8260C	19.2	20.0	96	81-123
Bromoform	8260C	21.7	20.0	109	65-146
Bromomethane	8260C	19.2	20.0	96	42-166
Carbon Disulfide	8260C	23.7	20.0	118	66-128
Carbon Tetrachloride	8260C	19.7	20.0	99	70-127
Chlorobenzene	8260C	19.2	20.0	96	80-121
Chloroethane	8260C	16.7	20.0	84	62-131
Chloroform	8260C	20.1	20.0	100	79-120
Chloromethane	8260C	17.5	20.0	88	65-135
Dibromochloromethane	8260C	20.9	20.0	104	72-128
Dichloromethane	8260C	19.6	20.0	98	73-122
Ethylbenzene	8260C	19.2	20.0	96	76-120
Styrene	8260C	19.4	20.0	97	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	72-125
Toluene	8260C	19.4	20.0	97	79-119
Trichloroethene (TCE)	8260C	18.5	20.0	93	74-122
Vinyl Acetate	8260C	37.2	20.0	186 *	52-174
Vinyl Chloride	8260C	17.2	20.0	86	74-159
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	19.1	20.0	96	77-122
trans-1,2-Dichloroethene	8260C	20.5	20.0	102	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 07/07/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007251-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	20.9	20.0	104	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005539

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-062620-RM-014	R2005539-001	84	63	42
WG-9954-062620-RM-015	R2005539-002	86	57	40
WG-9954-062620-RM-016	R2005539-003	84	64	35
WG-9954-062620-RM-017	R2005539-004	83	70	41
WG-9954-062620-RM-018	R2005539-005	86	62	40
Method Blank	RQ2007030-01	83	72	45
Lab Control Sample	RQ2007030-02	85	67	42
Duplicate Lab Control Sample	RQ2007030-03	81	67	40
WG-9954-062620-RM-018 MS	RQ2007030-04	88	78	47
WG-9954-062620-RM-018 DMS	RQ2007030-05	93	78	45

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005539

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-062620-RM-014	R2005539-001	60	30	48
WG-9954-062620-RM-015	R2005539-002	56	30	59
WG-9954-062620-RM-016	R2005539-003	57	27	58
WG-9954-062620-RM-017	R2005539-004	68	32	57
WG-9954-062620-RM-018	R2005539-005	60	30	69
Method Blank	RQ2007030-01	72	35	70
Lab Control Sample	RQ2007030-02	70	31	50
Duplicate Lab Control Sample	RQ2007030-03	67	30	58
WG-9954-062620-RM-018 MS	RQ2007030-04	77	37	60
WG-9954-062620-RM-018 DMS	RQ2007030-05	70	34	56

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Collected: 06/26/20
Date Received: 06/27/20
Date Analyzed: 07/6/20
Date Extracted: 07/1/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2007030-04			Duplicate Matrix Spike RQ2007030-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4-Trichlorobenzene	9.1 U	45.0	72.7	62	40.7	72.7	56	10-127	10	30
1,2-Dichlorobenzene	9.1 U	40.6	72.7	56	40.0	72.7	55	17-105	2	30
1,3-Dichlorobenzene	9.1 U	39.7	72.7	55	38.5	72.7	53	21-99	4	30
1,4-Dichlorobenzene	9.1 U	40.6	72.7	56	38.5	72.7	53	10-124	6	30
2,4,5-Trichlorophenol	9.1 U	61.9	72.7	85	62.7	72.7	86	48-134	1	30
2,4,6-Trichlorophenol	9.1 U	58.8	72.7	81	61.6	72.7	85	44-135	5	30
2,4-Dichlorophenol	9.1 U	51.1	72.7	70	48.7	72.7	67	40-130	4	30
2,4-Dimethylphenol	9.1 U	56.0	72.7	77	55.3	72.7	76	42-121	1	30
2,4-Dinitrophenol	45 U	45.6	72.7	63	47.7	72.7	66	21-168	5	30
2,4-Dinitrotoluene	9.1 U	62.8	72.7	86	67.4	72.7	93	37-143	8	30
2,6-Dinitrotoluene	9.1 U	73.8	72.7	101	75.9	72.7	104	39-136	3	30
2-Chloronaphthalene	9.1 U	59.4	72.7	82	60.0	72.7	83	40-108	1	30
2-Chlorophenol	9.1 U	43.8	72.7	60	42.5	72.7	58	37-112	3	30
2-Methylnaphthalene	9.1 U	56.4	72.7	78	52.4	72.7	72	34-102	8	30
2-Methylphenol	9.1 U	50.7	72.7	70	50.3	72.7	69	37-102	1	30
2-Nitroaniline	9.1 U	71.3	72.7	98	75.8	72.7	104	40-136	6	30
2-Nitrophenol	9.1 U	54.3	72.7	75	50.6	72.7	70	27-143	7	30
3,3'-Dichlorobenzidine	9.1 U	62.3	72.7	86	62.5	72.7	86	11-131	<1	30
3- and 4-Methylphenol Coelution	9.1 U	48.5	72.7	67	45.1	72.7	62	30-95	8	30
3-Nitroaniline	9.1 U	66.2	72.7	91	59.8	72.7	82	19-117	10	30
4,6-Dinitro-2-methylphenol	45 U	56.5	72.7	78	56.9	72.7	78	25-154	<1	30
4-Bromophenyl Phenyl Ether	9.1 U	62.4	72.7	86	61.0	72.7	84	39-115	2	30
4-Chloro-3-methylphenol	9.1 U	61.5	72.7	85	60.9	72.7	84	41-126	1	30
4-Chloroaniline	9.1 U	59.7	72.7	82	53.1	72.7	73	19-111	12	30
4-Chlorophenyl Phenyl Ether	9.1 U	53.9	72.7	74	55.7	72.7	77	41-111	4	30
4-Nitroaniline	9.1 U	62.9	72.7	86	62.9	72.7	87	18-143	1	30
4-Nitrophenol	45 U	24.9 J	72.7	34	25.6 J	72.7	35	10-126	3	30
Acenaphthene	9.1 U	61.7	72.7	85	60.3	72.7	83	43-117	2	30
Acenaphthylene	9.1 U	66.7	72.7	92	65.2	72.7	90	45-119	2	30
Anthracene	9.1 U	66.4	72.7	91	65.3	72.7	90	45-127	1	30
Benz(a)anthracene	9.1 U	56.5	72.7	78	53.9	72.7	74	46-126	5	30
Benzo(a)pyrene	9.1 U	60.4	72.7	83	56.3	72.7	77	44-114	8	30
Benzo(b)fluoranthene	9.1 U	52.2	72.7	72	49.1	72.7	68	41-127	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Collected: 06/26/20
Date Received: 06/27/20
Date Analyzed: 07/6/20
Date Extracted: 07/1/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-062620-RM-018
Lab Code: R2005539-005
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007030-04				Duplicate Matrix Spike RQ2007030-05				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Benzo(g,h,i)perylene	9.1 U	63.5	72.7	87	57.5	72.7	79	50-143	10	30	
Benzo(k)fluoranthene	9.1 U	60.4	72.7	83	56.3	72.7	77	46-139	8	30	
Benzoic Acid	91 U	71.8 J	109	66	73.9 J	109	68	10-94	3	30	
Benzyl Alcohol	9.1 U	58.1	72.7	80	55.0	72.7	76	31-109	5	30	
2,2'-Oxybis(1-chloropropane)	9.1 U	51.9	72.7	71	49.1	72.7	68	21-126	4	30	
Bis(2-chloroethoxy)methane	9.1 U	58.3	72.7	80	56.3	72.7	77	41-118	4	30	
Bis(2-chloroethyl) Ether	9.1 U	49.7	72.7	68	45.4	72.7	62	33-108	9	30	
Bis(2-ethylhexyl) Phthalate	9.1 U	55.0	72.7	76	51.7	72.7	71	41-132	7	30	
Butyl Benzyl Phthalate	9.1 U	61.6	72.7	85	59.8	72.7	82	41-148	4	30	
Chrysene	9.1 U	59.4	72.7	82	56.7	72.7	78	47-126	5	30	
Di-n-butyl Phthalate	9.1 U	71.7	72.7	99	70.8	72.7	97	43-130	2	30	
Di-n-octyl Phthalate	9.1 U	54.1	72.7	74	50.6	72.7	70	40-139	6	30	
Dibenz(a,h)anthracene	9.1 U	67.7	72.7	93	59.3	72.7	82	43-136	13	30	
Dibenzofuran	9.1 U	65.4	72.7	90	64.7	72.7	89	46-119	1	30	
Diethyl Phthalate	9.1 U	58.0	72.7	80	59.1	72.7	81	36-122	1	30	
Dimethyl Phthalate	9.1 U	67.1	72.7	92	69.7	72.7	96	33-123	4	30	
Fluoranthene	9.1 U	73.6	72.7	101	71.5	72.7	98	43-135	3	30	
Fluorene	9.1 U	64.5	72.7	89	65.7	72.7	90	43-113	1	30	
Hexachlorobenzene	9.1 U	68.2	72.7	94	66.7	72.7	92	42-125	2	30	
Hexachlorobutadiene	9.1 U	47.4	72.7	65	42.2	72.7	58	10-111	11	30	
Hexachlorocyclopentadiene	9.1 U	9.50	72.7	13	10.2	72.7	14	10-103	7	30	
Hexachloroethane	9.1 U	39.9	72.7	55	37.9	72.7	52	12-101	6	30	
Indeno(1,2,3-cd)pyrene	9.1 U	54.2	72.7	75	48.5	72.7	67	49-140	11	30	
Isophorone	9.1 U	50.7	72.7	70	49.0	72.7	67	40-111	4	30	
N-Nitrosodi-n-propylamine	9.1 U	63.9	72.7	88	59.6	72.7	82	35-108	7	30	
N-Nitrosodiphenylamine	9.1 U	81.0	72.7	111	78.4	72.7	108	43-127	3	30	
Naphthalene	9.1 U	52.9	72.7	73	48.4	72.7	67	37-108	9	30	
Nitrobenzene	9.1 U	53.8	72.7	74	48.7	72.7	67	35-112	10	30	
Pentachlorophenol (PCP)	45 U	63.5	72.7	87	63.9	72.7	88	29-164	1	30	
Phenanthrene	9.1 U	64.6	72.7	89	64.7	72.7	89	46-123	<1	30	
Phenol	9.1 U	29.2	72.7	40	28.4	72.7	39	10-113	3	30	
Pyrene	9.1 U	69.5	72.7	96	68.9	72.7	95	44-129	1	30	

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007030-01

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
2,4-Dinitrophenol	50 U	50	20	1	07/06/20 09:10	7/1/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/06/20 09:10	7/1/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
2-Chlorophenol	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
2-Methylphenol	10 U	10	1.0	1	07/06/20 09:10	7/1/20	
2-Nitroaniline	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
2-Nitrophenol	10 U	10	1.5	1	07/06/20 09:10	7/1/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
3-Nitroaniline	10 U	10	2.5	1	07/06/20 09:10	7/1/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/06/20 09:10	7/1/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/06/20 09:10	7/1/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
4-Chloroaniline	10 U	10	1.0	1	07/06/20 09:10	7/1/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/06/20 09:10	7/1/20	
4-Nitroaniline	10 U	10	2.7	1	07/06/20 09:10	7/1/20	
4-Nitrophenol	50 U	50	6.4	1	07/06/20 09:10	7/1/20	
Acenaphthene	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
Acenaphthylene	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
Anthracene	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
Benz(a)anthracene	10 U	10	1.6	1	07/06/20 09:10	7/1/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/06/20 09:10	7/1/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
Benzoic Acid	100 U	100	36	1	07/06/20 09:10	7/1/20	
Benzyl Alcohol	10 U	10	1.6	1	07/06/20 09:10	7/1/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/06/20 09:10	7/1/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/06/20 09:10	7/1/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
Chrysene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007030-01

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/06/20 09:10	7/1/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/06/20 09:10	7/1/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
Dibenzofuran	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
Diethyl Phthalate	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
Fluoranthene	10 U	10	1.5	1	07/06/20 09:10	7/1/20	
Fluorene	10 U	10	1.3	1	07/06/20 09:10	7/1/20	
Hexachlorobenzene	10 U	10	1.6	1	07/06/20 09:10	7/1/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/06/20 09:10	7/1/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/06/20 09:10	7/1/20	
Hexachloroethane	10 U	10	1.1	1	07/06/20 09:10	7/1/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/06/20 09:10	7/1/20	
Isophorone	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/06/20 09:10	7/1/20	
Naphthalene	10 U	10	1.2	1	07/06/20 09:10	7/1/20	
Nitrobenzene	10 U	10	1.5	1	07/06/20 09:10	7/1/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/06/20 09:10	7/1/20	
Phenanthrene	10 U	10	1.4	1	07/06/20 09:10	7/1/20	
Phenol	10 U	10	1.0	1	07/06/20 09:10	7/1/20	
Pyrene	10 U	10	1.5	1	07/06/20 09:10	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	07/06/20 09:10	
2-Fluorobiphenyl	72	31 - 118	07/06/20 09:10	
2-Fluorophenol	45	10 - 105	07/06/20 09:10	
Nitrobenzene-d5	72	31 - 110	07/06/20 09:10	
Phenol-d6	35	10 - 107	07/06/20 09:10	
p-Terphenyl-d14	70	10 - 165	07/06/20 09:10	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	11.89	4.8	J
	unknown hydrocarbon	12.48	6.6	J
	unknown hydrocarbon	13.13	7.2	J
	unknown hydrocarbon	13.83	6.6	J
	unknown hydrocarbon	14.58	5.0	J

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2007030-02				Duplicate Lab Control Sample RQ2007030-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4-Trichlorobenzene	8270D	44.6	80.0	56	46.6	80.0	58	10-127	4	30
1,2-Dichlorobenzene	8270D	43.6	80.0	54	44.1	80.0	55	23-130	2	30
1,3-Dichlorobenzene	8270D	41.9	80.0	52	42.1	80.0	53	21-90	2	30
1,4-Dichlorobenzene	8270D	42.9	80.0	54	41.2	80.0	52	10-124	4	30
2,4,5-Trichlorophenol	8270D	58.5	80.0	73	59.7	80.0	75	48-134	3	30
2,4,6-Trichlorophenol	8270D	54.1	80.0	68	54.5	80.0	68	44-135	<1	30
2,4-Dichlorophenol	8270D	50.2	80.0	63	49.4	80.0	62	48-127	2	30
2,4-Dimethylphenol	8270D	58.5	80.0	73	54.3	80.0	68	59-113	7	30
2,4-Dinitrophenol	8270D	46.5 J	80.0	58	45.7 J	80.0	57	21-154	2	30
2,4-Dinitrotoluene	8270D	62.1	80.0	78	60.5	80.0	76	54-130	3	30
2,6-Dinitrotoluene	8270D	66.6	80.0	83	69.2	80.0	86	51-127	4	30
2-Chloronaphthalene	8270D	56.4	80.0	70	55.8	80.0	70	40-108	<1	30
2-Chlorophenol	8270D	43.8	80.0	55	44.0	80.0	55	42-112	<1	30
2-Methylnaphthalene	8270D	52.7	80.0	66	49.9	80.0	62	34-102	6	30
2-Methylphenol	8270D	49.9	80.0	62	47.9	80.0	60	47-100	3	30
2-Nitroaniline	8270D	63.4	80.0	79	61.0	80.0	76	52-133	4	30
2-Nitrophenol	8270D	54.4	80.0	68	51.1	80.0	64	43-131	6	30
3,3'-Dichlorobenzidine	8270D	59.2	80.0	74	62.3	80.0	78	43-126	5	30
3- and 4-Methylphenol Coelution	8270D	44.8	80.0	56	43.0	80.0	54	40-92	4	30
3-Nitroaniline	8270D	60.6	80.0	76	57.6	80.0	72	42-111	5	30
4,6-Dinitro-2-methylphenol	8270D	53.0	80.0	66	52.9	80.0	66	36-152	<1	30
4-Bromophenyl Phenyl Ether	8270D	63.2	80.0	79	61.6	80.0	77	48-114	3	30
4-Chloro-3-methylphenol	8270D	55.8	80.0	70	51.0	80.0	64	52-113	9	30
4-Chloroaniline	8270D	55.2	80.0	69	49.1	80.0	61	44-109	12	30
4-Chlorophenyl Phenyl Ether	8270D	54.7	80.0	68	52.4	80.0	65	51-107	5	30
4-Nitroaniline	8270D	56.1	80.0	70	55.1	80.0	69	54-133	1	30
4-Nitrophenol	8270D	21.6 J	80.0	27	21.1 J	80.0	26	10-126	4	30
Acenaphthene	8270D	59.5	80.0	74	57.9	80.0	72	52-107	3	30
Acenaphthylene	8270D	62.6	80.0	78	62.2	80.0	78	55-109	<1	30
Anthracene	8270D	62.7	80.0	78	63.0	80.0	79	55-116	1	30
Benz(a)anthracene	8270D	54.4	80.0	68	60.3	80.0	75	61-121	10	30
Benzo(a)pyrene	8270D	55.5	80.0	69	62.5	80.0	78	44-114	12	30
Benzo(b)fluoranthene	8270D	52.4	80.0	65	58.6	80.0	73	62-115	12	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2007030-02				Duplicate Lab Control Sample RQ2007030-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	59.3	80.0	74	70.7	80.0	88	63-136	17	30
Benzo(k)fluoranthene	8270D	57.0	80.0	71	62.8	80.0	79	49-133	11	30
Benzoic Acid	8270D	68.8 J	120	57	71.9 J	120	60	10-94	5	30
Benzyl Alcohol	8270D	55.3	80.0	69	53.0	80.0	66	31-109	4	30
2,2'-Oxybis(1-chloropropane)	8270D	51.3	80.0	64	51.1	80.0	64	32-122	<1	30
Bis(2-chloroethoxy)methane	8270D	60.4	80.0	76	57.2	80.0	71	55-110	7	30
Bis(2-chloroethyl) Ether	8270D	46.4	80.0	58	47.2	80.0	59	46-102	2	30
Bis(2-ethylhexyl) Phthalate	8270D	53.6	80.0	67	64.5	80.0	81	51-132	19	30
Butyl Benzyl Phthalate	8270D	57.7	80.0	72	64.7	80.0	81	41-148	12	30
Chrysene	8270D	58.9	80.0	74	63.5	80.0	79	57-118	7	30
Di-n-butyl Phthalate	8270D	66.9	80.0	84	70.6	80.0	88	57-128	5	30
Di-n-octyl Phthalate	8270D	55.2	80.0	69	64.4	80.0	81	62-124	16	30
Dibenz(a,h)anthracene	8270D	62.4	80.0	78	72.2	80.0	90	54-135	14	30
Dibenzofuran	8270D	63.0	80.0	79	61.7	80.0	77	55-110	3	30
Diethyl Phthalate	8270D	58.7	80.0	73	57.0	80.0	71	53-113	3	30
Dimethyl Phthalate	8270D	66.0	80.0	83	65.5	80.0	82	51-112	1	30
Fluoranthene	8270D	68.4	80.0	86	69.8	80.0	87	66-127	1	30
Fluorene	8270D	63.4	80.0	79	63.6	80.0	80	54-106	1	30
Hexachlorobenzene	8270D	68.5	80.0	86	68.2	80.0	85	53-123	1	30
Hexachlorobutadiene	8270D	48.2	80.0	60	48.5	80.0	61	16-95	2	30
Hexachlorocyclopentadiene	8270D	20.5	80.0	26	21.4	80.0	27	10-99	4	30
Hexachloroethane	8270D	43.5	80.0	54	41.8	80.0	52	15-92	4	30
Indeno(1,2,3-cd)pyrene	8270D	53.8	80.0	67	65.1	80.0	81	62-137	19	30
Isophorone	8270D	51.8	80.0	65	48.6	80.0	61	50-116	6	30
N-Nitrosodi-n-propylamine	8270D	60.2	80.0	75	59.5	80.0	74	49-115	1	30
N-Nitrosodiphenylamine	8270D	79.3	80.0	99	78.7	80.0	98	45-123	1	30
Naphthalene	8270D	50.6	80.0	63	52.4	80.0	65	38-99	3	30
Nitrobenzene	8270D	54.2	80.0	68	52.7	80.0	66	46-108	3	30
Pentachlorophenol (PCP)	8270D	62.5	80.0	78	64.7	80.0	81	29-164	4	30
Phenanthrene	8270D	63.0	80.0	79	63.4	80.0	79	58-118	<1	30
Phenol	8270D	27.9	80.0	35	27.2	80.0	34	10-113	3	30
Pyrene	8270D	63.1	80.0	79	67.8	80.0	85	61-122	7	30



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005539

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-062620-RM-014	R2005539-001	42	52
WG-9954-062620-RM-015	R2005539-002	67	59
WG-9954-062620-RM-016	R2005539-003	55	44
WG-9954-062620-RM-017	R2005539-004	33	54
WG-9954-062620-RM-018	R2005539-005	3*	34
Method Blank	RQ2007029-01	84	75
Lab Control Sample	RQ2007029-02	63	60
Duplicate Lab Control Sample	RQ2007029-03	68	58

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007029-01

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Aldrin	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Dieldrin	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endrin	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Heptachlor	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
Toxaphene	0.50 U	0.50	0.50	1	07/06/20 10:40	7/1/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
beta-BHC	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
delta-BHC	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/06/20 10:40	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 164	07/06/20 10:40	
Tetrachloro-m-xylene	75	10 - 147	07/06/20 10:40	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	0.260	0.400	65	0.268	0.400	67	42-159	3	30
4,4'-DDE	8081B	0.262	0.400	65	0.278	0.400	69	47-147	6	30
4,4'-DDT	8081B	0.251	0.400	63	0.275	0.400	69	41-149	9	30
Aldrin	8081B	0.216	0.400	54	0.219	0.400	55	22-137	1	30
Dieldrin	8081B	0.295	0.400	74	0.307	0.400	77	52-144	4	30
Endosulfan I	8081B	0.289	0.400	72	0.298	0.400	75	52-136	3	30
Endosulfan II	8081B	0.297	0.400	74	0.318	0.400	80	57-138	7	30
Endosulfan Sulfate	8081B	0.247	0.400	62	0.261	0.400	65	34-156	6	30
Endrin	8081B	0.282	0.400	71	0.300	0.400	75	56-143	6	30
Endrin Ketone	8081B	0.279	0.400	70	0.303	0.400	76	59-143	8	30
Heptachlor	8081B	0.190	0.400	47	0.189	0.400	47	32-141	<1	30
Heptachlor Epoxide	8081B	0.286	0.400	71	0.293	0.400	73	51-143	3	30
Methoxychlor	8081B	0.234	0.400	58	0.260	0.400	65	56-149	11	30
alpha-BHC	8081B	0.263	0.400	66	0.258	0.400	65	36-151	2	30
alpha-Chlordane	8081B	0.281	0.400	70	0.290	0.400	72	50-139	3	30
beta-BHC	8081B	0.290	0.400	72	0.293	0.400	73	55-149	1	30
delta-BHC	8081B	0.244	0.400	61	0.249	0.400	62	29-159	2	30
gamma-BHC (Lindane)	8081B	0.263	0.400	66	0.262	0.400	66	41-149	<1	30
gamma-Chlordane	8081B	0.275	0.400	69	0.283	0.400	71	50-140	3	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005539

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-062620-RM-014	R2005539-001	42	44
WG-9954-062620-RM-015	R2005539-002	54	43
WG-9954-062620-RM-016	R2005539-003	64	29
WG-9954-062620-RM-017	R2005539-004	27	37
WG-9954-062620-RM-018	R2005539-005	11	43
Method Blank	RQ2007029-01	89	70
Lab Control Sample	RQ2007029-02	71	53
Duplicate Lab Control Sample	RQ2007029-03	68	49

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007029-01

Service Request: R2005539
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/06/20 11:40	7/1/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/06/20 11:40	7/1/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 152	07/06/20 11:40	
Tetrachloro-m-xylene	70	14 - 129	07/06/20 11:40	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005539
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2007029-02			RQ2007029-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	2.88	4.00	72	2.96	4.00	74	49-123	2	30
Aroclor 1260	8082A	3.52	4.00	88	3.35	4.00	84	30-120	5	30



July 24, 2020

Service Request No:R2005635

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory July 01, 2020
For your reference, these analyses have been assigned our service request number **R2005635**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005635
Date Received: 07/01/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Seven water samples were received for analysis at ALS Environmental on 07/01/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/06/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/06/2020: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/08/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/08/2020: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

Semivolatile GC:


Method 8081B, 07/07/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/07/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8081B, R2005635-005: The control limits were exceeded for one or more surrogates due to matrix interferences. A re-extraction and reanalysis was performed, but produced similar results. The re-extraction was performed out of holding time. No further corrective action was required.

Method 8081B, 07/06/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/08/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and

Approved by 

Date 07/24/2020



no further corrective action was taken.

Method 8082A, 07/13/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A, r2005635-005: The control limits were exceeded for one or more surrogates due to matrix interferences. A re-extraction and reanalysis was performed, but produced similar results. No further corrective action was required.

Method 8081B, R2005635-005: Due to matrix interference, the MRL and MDL were elevated for alpha-BHC in both the primary and secondary analysis. Analyte is flagged with an "i" for both analyses.

Volatiles by GC/MS:

Method 8260C, : The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by

A handwritten signature in black ink, appearing to read 'Brady Knutson', written over a horizontal line.

Date

07/24/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-063020-SG-019	Lab ID: R2005635-001
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	4.3	J	0.42	10	ug/L	8260C
Toluene	0.34	BJ	0.20	5.0	ug/L	8260C
alpha-BHC	0.12		0.019	0.045	ug/L	8081B
delta-BHC	0.076		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.10		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-063020-SG-020	Lab ID: R2005635-002
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	4.2	J	0.42	10	ug/L	8260C
Toluene	0.35	BJ	0.20	5.0	ug/L	8260C
alpha-BHC	0.081		0.019	0.045	ug/L	8081B
delta-BHC	0.068		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.089		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-063020-SG-022	Lab ID: R2005635-003
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	3.5	J	0.42	10	ug/L	8260C
Toluene	0.38	BJ	0.20	5.0	ug/L	8260C
alpha-BHC	0.064		0.019	0.045	ug/L	8081B
beta-BHC	0.027	J	0.019	0.045	ug/L	8081B
delta-BHC	0.29		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.074		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-063020-RM-023	Lab ID: R2005635-004
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	2.9	J	0.42	10	ug/L	8260C
Toluene	0.31	BJ	0.20	5.0	ug/L	8260C

CLIENT ID: RB-9954-063020-SG-002	Lab ID: R2005635-005
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Toluene	0.25	BJ	0.20	5.0	ug/L	8260C
Phenol	0.94	J	0.91	9.1	ug/L	8270D
delta-BHC	0.037	J	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.058		0.019	0.045	ug/L	8081B
delta-BHC	0.026	J	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.053		0.019	0.045	ug/L	8081B

CLIENT ID: TB-9954-063020-SG-004	Lab ID: R2005635-006
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Toluene	0.30	BJ	0.20	5.0	ug/L	8260C

CLIENT ID: WG-9954-063020-SG-021	Lab ID: R2005635-007
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	3.1	J	0.42	10	ug/L	8260C

SAMPLE DETECTION SUMMARY**CLIENT ID: WG-9954-063020-SG-021****Lab ID: R2005635-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
Toluene	0.31	BJ	0.20	5.0	ug/L	8260C
Phenol	1.1	J	0.91	9.1	ug/L	8270D
alpha-BHC	0.10		0.019	0.045	ug/L	8081B
delta-BHC	0.12		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.11		0.019	0.045	ug/L	8081B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005635

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005635-001	WG-9954-063020-SG-019	6/30/2020	0905
R2005635-002	WG-9954-063020-SG-020	6/30/2020	1010
R2005635-003	WG-9954-063020-SG-022	6/30/2020	1100
R2005635-004	WG-9954-063020-RM-023	6/30/2020	1215
R2005635-005	RB-9954-063020-SG-002	6/30/2020	1300
R2005635-006	TB-9954-063020-SG-004	6/30/2020	0000
R2005635-007	WG-9954-063020-SG-021	6/30/2020	1010

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Kathy Willy
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: kathy.willy@ghd.com	Project Number: 9954

Lab Information
Laboratory: ALS
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623
ROCHESTER, NY 14623
Laboratory Contact: BRADY KALKMAN
Requested Due Date: TAT: 10
QA/QC Requirements:

Event Information
ID#: LC ANNUALGW SAMPLING 2020-04-1
SSOW Ref#: 292-402-999-3100
Sampler Name: S GARDNER, D TYRAN

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks
WG-9954-063020-SG-019		WG	06/30/2020	09:05	2	2	3	
WG-9954-063020-SG-020		WG	06/30/2020	10:10	2	2	3	
WG-9954-063020-SG-022		WG	06/30/2020	11:00	2	2	3	
WG-9954-063020-RM-023		WG	06/30/2020	12:15	6	6	9	MS/MSD
RB-9954-063020-SG-002		WG Q	06/30/2020	13:00	2	2	3	
TB-9954-063020-SG-004		WG Q	06/30/2020	00:00	0	0	3	
WG-9954-063020-SG-021		WG	06/30/2020	10:10	2	2	3	
Total Bottles					16	16	27	Grand Total:59

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	2	Sharon Gardner	6/30/20	1405	ALS	7/1/2020	11:05
AIRBILL#:							

R2005635

5

GHD Services Inc.
Love Canal:292-402-002-3100



SR# _____

004, 005, 006, 007, 008, 009, 010,
011, 012, 013

www.alsglobal.com

SR# _____

T030477

Project Name: Love Canal:282-402-D02-3100		NUMBER OF CONTAINERS	7D	14D					
Project Number: 9954 Annual Long Term Monitoring	Report To Kathy Wilby								
Company / Address GHD Services Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls NY, 14304									
Phone # 716-297-2180	FAX # 716-297-2265								
Sampler Signature			Sampler Printed Name						

[illegible]

Special Instructions/Comments:	Turnaround Requirements	Report Requirements	Invoice Information
	<input type="checkbox"/> RUSH (SURCHARGES APPLY) <input type="checkbox"/> Standard (3 weeks) <hr/> REQUESTED FAX DATE <hr/> Requested Report Date	<input type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data EData <input type="checkbox"/> Yes <input type="checkbox"/> No	P.O.# _____ Bill To: _____ _____ _____ _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form



Project/Client GHD Folder Number _____

Cooler received on 7-1-2020 by KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	<u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	<u>N</u>
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	<u>N</u>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	<u>N</u>

5a	Perchlorate samples have required headspace?	Y	N	<u>NA</u>
5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u>	<u>N</u>	<u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <u>NA</u>

3. Temperature Readings Date: 7-1-2020 Time: 11:11 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>24</u>	<u>23</u>					
Within 0-6°C?	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>	<u>Y</u>
If <0°C, were samples frozen?	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>	<u>Y</u>

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by KE on 7/1/20 at 11:17
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 7/1/2020 Time: 18:43 by: KE

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2538, 05/120 - 18MC

Explain all Discrepancies/ Other Comments:

* Trip Blank: All 3 vials

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: @
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2005635-001.01	8081B	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-001.03		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
R2005635-001.04		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	
		7/13/2020	1805	R-001-S12 / KRUEST	
R2005635-001.05	8260C	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/14/2020	1314	In Lab / KRUEST	
		7/14/2020	1451	R-001-S12 / KRUEST	
R2005635-001.06		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-001.08	8082A	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0816	In Lab / VSTAUFFER	
R2005635-001.09	8270D	7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-002.01	8081B	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0816	In Lab / VSTAUFFER	
R2005635-002.03					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
R2005635-002.04					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	
		7/13/2020	1805	R-001-S12 / KRUEST	
R2005635-002.05					
	8260C				
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/14/2020	1314	In Lab / KRUEST	
		7/14/2020	1451	R-001-S12 / KRUEST	
R2005635-002.06					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-002.08					
	8082A				
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-002.09					
	8270D				
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-003.01					
	8081B				
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-003.03					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
R2005635-003.04					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2005635-003.05	8260C	7/13/2020	1805	R-001-S12 / KRUEST	
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/14/2020	1314	In Lab / KRUEST	
		7/14/2020	1451	R-001-S12 / KRUEST	
R2005635-003.06	8270D	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-003.08	8082A	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0816	In Lab / VSTAUFFER	
R2005635-003.09		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-004.01		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-004.07		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
R2005635-004.08	8260C	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/14/2020	1315	In Lab / KRUEST	
		7/14/2020	1451	R-001-S12 / KRUEST	
R2005635-004.09		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2005635-004.10					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-004.11					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-004.12					
	8270D				
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.13					
	8081B,8082A				
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.14					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-004.15					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.16					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.17					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.18					
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2005635-004.19		7/2/2020	0815	In Lab / VSTAUFFER	
		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.20		7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-004.21		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	
		7/13/2020	1805	R-001-S12 / KRUEST	
R2005635-004.22		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	
R2005635-004.23		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	
R2005635-004.24		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	
R2005635-004.25		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	
R2005635-004.26		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	
R2005635-005.01		7/1/2020	1843	R-001 / GLAFORCE	
		7/1/2020	1843	SMO / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8081B,8081B	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
		R2005635-005.03			
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
R2005635-005.04					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	
		7/13/2020	1805	R-001-S12 / KRUEST	
R2005635-005.05					
	8260C	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/14/2020	1314	In Lab / KRUEST	
		7/14/2020	1452	R-001-S12 / KRUEST	
R2005635-005.06					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
R2005635-005.08					
	8082A,8082A	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/10/2020	0804	In Lab / VSTAUFFER	
R2005635-005.09					
	8270D	7/1/2020	1843	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
R2005635-006.01					
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	
		7/13/2020	1805	R-001-S12 / KRUEST	
R2005635-006.02					

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Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/14/2020	1314	In Lab / KRUEST	
		7/14/2020	1451	R-001-S12 / KRUEST	
		R2005635-006.03			
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		R2005635-007.01			
	8081B	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		R2005635-007.03			
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		R2005635-007.04			
	8260C	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1751	In Lab / KRUEST	
		7/14/2020	1451	R-001-S12 / KRUEST	
		R2005635-007.05			
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1843	R-001 / GLAFORCE	
		7/13/2020	1805	R-001-S12 / KRUEST	
		7/14/2020	1314	In Lab / KRUEST	
		R2005635-007.06			
		7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		R2005635-007.08			
	8082A	7/1/2020	1842	SMO / GLAFORCE	
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	
		R2005635-007.09			
	8270D	7/1/2020	1843	SMO / GLAFORCE	

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005635

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8270D				
		7/1/2020	1844	R-002 / GLAFORCE	
		7/2/2020	0815	In Lab / VSTAUFFER	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005635

Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005635

Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method

8082A
8260C
8270D

Extracted/Digested By

KSERCU

KSERCU

Analyzed By

BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005.R01
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method

8081B
8082A

Extracted/Digested By

KSERCU
KSERCU

Analyzed By

BALLGEIER
BALLGEIER

Sample Name: TB-9954-063020-SG-004
Lab Code: R2005635-006
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method

8260C

Extracted/Digested By

Analyzed By

KRUEST

ALS Group USA, Corp.
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Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring

Service Request: R2005635

Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007
Sample Matrix: Water

Date Collected: 06/30/20
Date Received: 07/1/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 15:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 15:20	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 15:20	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 15:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 15:20	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 15:20	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 15:20	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 15:20	
2-Hexanone	10 U	10	0.20	1	07/14/20 15:20	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 15:20	
Acetone	10 U	10	5.0	1	07/14/20 15:20	
Benzene	5.0 U	5.0	0.20	1	07/14/20 15:20	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 15:20	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 15:20	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 15:20	
Carbon Disulfide	4.3 J	10	0.42	1	07/14/20 15:20	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 15:20	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 15:20	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 15:20	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 15:20	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 15:20	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 15:20	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 15:20	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 15:20	
Styrene	5.0 U	5.0	0.20	1	07/14/20 15:20	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 15:20	
Toluene	0.34 BJ	5.0	0.20	1	07/14/20 15:20	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 15:20	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 15:20	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 15:20	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 15:20	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 15:20	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 15:20	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 15:20	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 15:20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	07/14/20 15:20	
Dibromofluoromethane	100	89 - 119	07/14/20 15:20	
Toluene-d8	101	87 - 121	07/14/20 15:20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.21	9.0	J
	unknown	1.32	190.6	J
	unknown	1.54	6.4	J
007446-09-5	Sulfur dioxide	1.62	78.4	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 15:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 15:42	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 15:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 15:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 15:42	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 15:42	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 15:42	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 15:42	
2-Hexanone	10 U	10	0.20	1	07/14/20 15:42	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 15:42	
Acetone	10 U	10	5.0	1	07/14/20 15:42	
Benzene	5.0 U	5.0	0.20	1	07/14/20 15:42	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 15:42	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 15:42	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 15:42	
Carbon Disulfide	4.2 J	10	0.42	1	07/14/20 15:42	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 15:42	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 15:42	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 15:42	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 15:42	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 15:42	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 15:42	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 15:42	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 15:42	
Styrene	5.0 U	5.0	0.20	1	07/14/20 15:42	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 15:42	
Toluene	0.35 BJ	5.0	0.20	1	07/14/20 15:42	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 15:42	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 15:42	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 15:42	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 15:42	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 15:42	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 15:42	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 15:42	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 15:42	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	07/14/20 15:42	
Dibromofluoromethane	105	89 - 119	07/14/20 15:42	
Toluene-d8	103	87 - 121	07/14/20 15:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	41.3	JN
	unknown	1.62	47.4	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 16:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 16:04	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 16:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 16:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 16:04	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 16:04	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 16:04	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 16:04	
2-Hexanone	10 U	10	0.20	1	07/14/20 16:04	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 16:04	
Acetone	10 U	10	5.0	1	07/14/20 16:04	
Benzene	5.0 U	5.0	0.20	1	07/14/20 16:04	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 16:04	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 16:04	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 16:04	
Carbon Disulfide	3.5 J	10	0.42	1	07/14/20 16:04	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 16:04	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 16:04	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 16:04	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 16:04	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 16:04	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 16:04	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 16:04	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 16:04	
Styrene	5.0 U	5.0	0.20	1	07/14/20 16:04	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 16:04	
Toluene	0.38 BJ	5.0	0.20	1	07/14/20 16:04	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 16:04	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 16:04	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 16:04	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 16:04	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 16:04	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 16:04	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 16:04	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 16:04	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/14/20 16:04	
Dibromofluoromethane	102	89 - 119	07/14/20 16:04	
Toluene-d8	102	87 - 121	07/14/20 16:04	

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dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	51.5	JN
	unknown	1.62	19.6	J
	unknown	9.24	5.1	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 16:25	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 16:25	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 16:25	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 16:25	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 16:25	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 16:25	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 16:25	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 16:25	
2-Hexanone	10 U	10	0.20	1	07/14/20 16:25	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 16:25	
Acetone	10 U	10	5.0	1	07/14/20 16:25	
Benzene	5.0 U	5.0	0.20	1	07/14/20 16:25	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 16:25	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 16:25	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 16:25	
Carbon Disulfide	2.9 J	10	0.42	1	07/14/20 16:25	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 16:25	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 16:25	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 16:25	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 16:25	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 16:25	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 16:25	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 16:25	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 16:25	
Styrene	5.0 U	5.0	0.20	1	07/14/20 16:25	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 16:25	
Toluene	0.31 BJ	5.0	0.20	1	07/14/20 16:25	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 16:25	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 16:25	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 16:25	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 16:25	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 16:25	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 16:25	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 16:25	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 16:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/14/20 16:25	
Dibromofluoromethane	99	89 - 119	07/14/20 16:25	
Toluene-d8	96	87 - 121	07/14/20 16:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	47.6	JN
	unknown	1.62	22.2	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 16:47	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 16:47	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 16:47	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 16:47	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 16:47	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 16:47	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 16:47	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 16:47	
2-Hexanone	10 U	10	0.20	1	07/14/20 16:47	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 16:47	
Acetone	10 U	10	5.0	1	07/14/20 16:47	
Benzene	5.0 U	5.0	0.20	1	07/14/20 16:47	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 16:47	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 16:47	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 16:47	
Carbon Disulfide	10 U	10	0.42	1	07/14/20 16:47	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 16:47	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 16:47	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 16:47	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 16:47	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 16:47	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 16:47	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 16:47	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 16:47	
Styrene	5.0 U	5.0	0.20	1	07/14/20 16:47	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 16:47	
Toluene	0.25 BJ	5.0	0.20	1	07/14/20 16:47	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 16:47	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 16:47	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 16:47	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 16:47	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 16:47	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 16:47	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 16:47	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 16:47	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	07/14/20 16:47	
Dibromofluoromethane	99	89 - 119	07/14/20 16:47	
Toluene-d8	101	87 - 121	07/14/20 16:47	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	84.1	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-063020-SG-004
Lab Code: R2005635-006

Service Request: R2005635
Date Collected: 06/30/20 00:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 14:58	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 14:58	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 14:58	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 14:58	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 14:58	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 14:58	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 14:58	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 14:58	
2-Hexanone	10 U	10	0.20	1	07/14/20 14:58	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 14:58	
Acetone	10 U	10	5.0	1	07/14/20 14:58	
Benzene	5.0 U	5.0	0.20	1	07/14/20 14:58	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 14:58	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 14:58	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 14:58	
Carbon Disulfide	10 U	10	0.42	1	07/14/20 14:58	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 14:58	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 14:58	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 14:58	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 14:58	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 14:58	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 14:58	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 14:58	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 14:58	
Styrene	5.0 U	5.0	0.20	1	07/14/20 14:58	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 14:58	
Toluene	0.30 BJ	5.0	0.20	1	07/14/20 14:58	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 14:58	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 14:58	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 14:58	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 14:58	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 14:58	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 14:58	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 14:58	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 14:58	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-063020-SG-004
Lab Code: R2005635-006

Service Request: R2005635
Date Collected: 06/30/20 00:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	07/14/20 14:58	
Dibromofluoromethane	98	89 - 119	07/14/20 14:58	
Toluene-d8	102	87 - 121	07/14/20 14:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-063020-SG-004
Lab Code: R2005635-006

Service Request: R2005635
Date Collected: 06/30/20 00:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
001825-61-2	unknown	1.60	6.5	J
	Silane, methoxytrimethyl-	2.92	11.9	JN
	unknown	4.49	10.8	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 17:09	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 17:09	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 17:09	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 17:09	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 17:09	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 17:09	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 17:09	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 17:09	
2-Hexanone	10 U	10	0.20	1	07/14/20 17:09	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 17:09	
Acetone	10 U	10	5.0	1	07/14/20 17:09	
Benzene	5.0 U	5.0	0.20	1	07/14/20 17:09	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 17:09	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 17:09	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 17:09	
Carbon Disulfide	3.1 J	10	0.42	1	07/14/20 17:09	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 17:09	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 17:09	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 17:09	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 17:09	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 17:09	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 17:09	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 17:09	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 17:09	
Styrene	5.0 U	5.0	0.20	1	07/14/20 17:09	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 17:09	
Toluene	0.31 BJ	5.0	0.20	1	07/14/20 17:09	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 17:09	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 17:09	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 17:09	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 17:09	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 17:09	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 17:09	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 17:09	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 17:09	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/14/20 17:09	
Dibromofluoromethane	100	89 - 119	07/14/20 17:09	
Toluene-d8	101	87 - 121	07/14/20 17:09	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	46.7	JN
	unknown	1.62	24.0	J



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 16:52	7/2/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 16:52	7/2/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 16:52	7/2/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 16:52	7/2/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 16:52	7/2/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 16:52	7/2/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 16:52	7/2/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 16:52	7/2/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 16:52	7/2/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 16:52	7/2/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 16:52	7/2/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 16:52	7/2/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 16:52	7/2/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 16:52	7/2/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 16:52	7/2/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 16:52	7/2/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 16:52	7/2/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
Benzoic Acid	91 U	91	33	1	07/06/20 16:52	7/2/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 16:52	7/2/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 16:52	7/2/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 16:52	7/2/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 16:52	7/2/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 16:52	7/2/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 16:52	7/2/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 16:52	7/2/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 16:52	7/2/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 16:52	7/2/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 16:52	7/2/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 16:52	7/2/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 16:52	7/2/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 16:52	7/2/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 16:52	7/2/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 16:52	7/2/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 16:52	7/2/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 16:52	7/2/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 16:52	7/2/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 16:52	7/2/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 16:52	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	121	35 - 141	07/06/20 16:52	
2-Fluorobiphenyl	73	31 - 118	07/06/20 16:52	
2-Fluorophenol	45	10 - 105	07/06/20 16:52	
Nitrobenzene-d5	71	31 - 110	07/06/20 16:52	
Phenol-d6	29	10 - 107	07/06/20 16:52	
p-Terphenyl-d14	51	10 - 165	07/06/20 16:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	12.08	5.0	J
	unknown	12.69	4.9	J
	unknown	13.36	5.2	J
	unknown	13.69	4.4	J
	unknown	14.85	4.6	J
	unknown hydrocarbon	16.34	4.0	J
	unknown	7.21	3.8	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 17:22	7/2/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 17:22	7/2/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 17:22	7/2/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 17:22	7/2/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 17:22	7/2/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 17:22	7/2/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 17:22	7/2/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 17:22	7/2/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 17:22	7/2/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 17:22	7/2/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 17:22	7/2/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 17:22	7/2/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 17:22	7/2/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 17:22	7/2/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 17:22	7/2/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 17:22	7/2/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 17:22	7/2/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
Benzoic Acid	91 U	91	33	1	07/06/20 17:22	7/2/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 17:22	7/2/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 17:22	7/2/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 17:22	7/2/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 17:22	7/2/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 17:22	7/2/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 17:22	7/2/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 17:22	7/2/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 17:22	7/2/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 17:22	7/2/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 17:22	7/2/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 17:22	7/2/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 17:22	7/2/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 17:22	7/2/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 17:22	7/2/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 17:22	7/2/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 17:22	7/2/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 17:22	7/2/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 17:22	7/2/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 17:22	7/2/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 17:22	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	102	35 - 141	07/06/20 17:22	
2-Fluorobiphenyl	69	31 - 118	07/06/20 17:22	
2-Fluorophenol	44	10 - 105	07/06/20 17:22	
Nitrobenzene-d5	71	31 - 110	07/06/20 17:22	
Phenol-d6	31	10 - 107	07/06/20 17:22	
p-Terphenyl-d14	61	10 - 165	07/06/20 17:22	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	12.08	6.1	J
	unknown	12.69	7.2	J
	unknown	13.36	7.2	J
	unknown	14.08	6.3	J
	unknown hydrocarbon	14.85	5.8	J
	unknown	15.65	4.3	J
013798-23-7	Sulfur	7.85	6.4	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 17:52	7/2/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 17:52	7/2/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 17:52	7/2/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 17:52	7/2/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 17:52	7/2/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 17:52	7/2/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 17:52	7/2/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 17:52	7/2/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 17:52	7/2/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 17:52	7/2/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 17:52	7/2/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 17:52	7/2/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 17:52	7/2/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 17:52	7/2/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 17:52	7/2/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 17:52	7/2/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 17:52	7/2/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
Benzoic Acid	91 U	91	33	1	07/06/20 17:52	7/2/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 17:52	7/2/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 17:52	7/2/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 17:52	7/2/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 17:52	7/2/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 17:52	7/2/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 17:52	7/2/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 17:52	7/2/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 17:52	7/2/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 17:52	7/2/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 17:52	7/2/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 17:52	7/2/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 17:52	7/2/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 17:52	7/2/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 17:52	7/2/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 17:52	7/2/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 17:52	7/2/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 17:52	7/2/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 17:52	7/2/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 17:52	7/2/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 17:52	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	118	35 - 141	07/06/20 17:52	
2-Fluorobiphenyl	80	31 - 118	07/06/20 17:52	
2-Fluorophenol	44	10 - 105	07/06/20 17:52	
Nitrobenzene-d5	71	31 - 110	07/06/20 17:52	
Phenol-d6	32	10 - 107	07/06/20 17:52	
p-Terphenyl-d14	64	10 - 165	07/06/20 17:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	12.07	7.1	J
	unknown hydrocarbon	12.69	8.2	J
	unknown	13.11	4.6	J
	unknown	13.36	8.7	J
	unknown	14.08	7.5	J
	unknown hydrocarbon	14.85	6.3	J
	unknown	15.64	4.9	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	16.34	4.4	J
	unknown	6.18	4.2	J
	unknown	7.84	4.4	J
	unknown	7.92	3.9	J
052253-93-7	Homomenthyl salicylate	9.37	4.5	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/06/20 18:21	7/2/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/06/20 18:21	7/2/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
2,4-Dinitrophenol	45 U	45	19	1	07/06/20 18:21	7/2/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/06/20 18:21	7/2/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/06/20 18:21	7/2/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/06/20 18:21	7/2/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/06/20 18:21	7/2/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/06/20 18:21	7/2/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/06/20 18:21	7/2/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/06/20 18:21	7/2/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/06/20 18:21	7/2/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/06/20 18:21	7/2/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/06/20 18:21	7/2/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/06/20 18:21	7/2/20	
4-Nitrophenol	45 U	45	5.8	1	07/06/20 18:21	7/2/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
Anthracene	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/06/20 18:21	7/2/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/06/20 18:21	7/2/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
Benzoic Acid	91 U	91	33	1	07/06/20 18:21	7/2/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/06/20 18:21	7/2/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/06/20 18:21	7/2/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/06/20 18:21	7/2/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
Chrysene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/06/20 18:21	7/2/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/06/20 18:21	7/2/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/06/20 18:21	7/2/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/06/20 18:21	7/2/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/06/20 18:21	7/2/20	
Fluorene	9.1 U	9.1	1.2	1	07/06/20 18:21	7/2/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/06/20 18:21	7/2/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/06/20 18:21	7/2/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/06/20 18:21	7/2/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/06/20 18:21	7/2/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/06/20 18:21	7/2/20	
Isophorone	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/06/20 18:21	7/2/20	
Naphthalene	9.1 U	9.1	1.1	1	07/06/20 18:21	7/2/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/06/20 18:21	7/2/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/06/20 18:21	7/2/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	
Phenol	9.1 U	9.1	0.91	1	07/06/20 18:21	7/2/20	
Pyrene	9.1 U	9.1	1.3	1	07/06/20 18:21	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	102	35 - 141	07/06/20 18:21	
2-Fluorobiphenyl	74	31 - 118	07/06/20 18:21	
2-Fluorophenol	40	10 - 105	07/06/20 18:21	
Nitrobenzene-d5	72	31 - 110	07/06/20 18:21	
Phenol-d6	25	10 - 107	07/06/20 18:21	
p-Terphenyl-d14	67	10 - 165	07/06/20 18:21	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	11.52	4.9	J
	unknown hydrocarbon	12.07	7.1	J
	unknown hydrocarbon	12.69	9.1	J
	unknown hydrocarbon	13.35	10	J
	unknown hydrocarbon	14.08	9.0	J
	unknown	14.85	7.6	J
	unknown hydrocarbon	15.65	6.3	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	16.34	5.1	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/08/20 12:43	7/2/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/08/20 12:43	7/2/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
2,4-Dinitrophenol	45 U	45	19	1	07/08/20 12:43	7/2/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/08/20 12:43	7/2/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/08/20 12:43	7/2/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/08/20 12:43	7/2/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/08/20 12:43	7/2/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/08/20 12:43	7/2/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/08/20 12:43	7/2/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/08/20 12:43	7/2/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/08/20 12:43	7/2/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/08/20 12:43	7/2/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/08/20 12:43	7/2/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/08/20 12:43	7/2/20	
4-Nitrophenol	45 U	45	5.8	1	07/08/20 12:43	7/2/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
Anthracene	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/08/20 12:43	7/2/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/08/20 12:43	7/2/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
Benzoic Acid	91 U	91	33	1	07/08/20 12:43	7/2/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/08/20 12:43	7/2/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/08/20 12:43	7/2/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/08/20 12:43	7/2/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
Chrysene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/08/20 12:43	7/2/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/08/20 12:43	7/2/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/08/20 12:43	7/2/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/08/20 12:43	7/2/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/08/20 12:43	7/2/20	
Fluorene	9.1 U	9.1	1.2	1	07/08/20 12:43	7/2/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/08/20 12:43	7/2/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/08/20 12:43	7/2/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/08/20 12:43	7/2/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/08/20 12:43	7/2/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/08/20 12:43	7/2/20	
Isophorone	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/08/20 12:43	7/2/20	
Naphthalene	9.1 U	9.1	1.1	1	07/08/20 12:43	7/2/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/08/20 12:43	7/2/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/08/20 12:43	7/2/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	
Phenol	0.94 J	9.1	0.91	1	07/08/20 12:43	7/2/20	
Pyrene	9.1 U	9.1	1.3	1	07/08/20 12:43	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	98	35 - 141	07/08/20 12:43	
2-Fluorobiphenyl	68	31 - 118	07/08/20 12:43	
2-Fluorophenol	39	10 - 105	07/08/20 12:43	
Nitrobenzene-d5	65	31 - 110	07/08/20 12:43	
Phenol-d6	27	10 - 107	07/08/20 12:43	
p-Terphenyl-d14	62	10 - 165	07/08/20 12:43	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	12.69	5.7	J
	unknown	13.35	6.4	J
	unknown	14.08	4.3	J
	unknown	14.85	4.8	J
	unknown	15.65	4.0	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/08/20 13:12	7/2/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/08/20 13:12	7/2/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
2,4-Dinitrophenol	45 U	45	19	1	07/08/20 13:12	7/2/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/08/20 13:12	7/2/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/08/20 13:12	7/2/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/08/20 13:12	7/2/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/08/20 13:12	7/2/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/08/20 13:12	7/2/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/08/20 13:12	7/2/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/08/20 13:12	7/2/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/08/20 13:12	7/2/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/08/20 13:12	7/2/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/08/20 13:12	7/2/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/08/20 13:12	7/2/20	
4-Nitrophenol	45 U	45	5.8	1	07/08/20 13:12	7/2/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
Anthracene	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/08/20 13:12	7/2/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/08/20 13:12	7/2/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
Benzoic Acid	91 U	91	33	1	07/08/20 13:12	7/2/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/08/20 13:12	7/2/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/08/20 13:12	7/2/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/08/20 13:12	7/2/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
Chrysene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/08/20 13:12	7/2/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/08/20 13:12	7/2/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/08/20 13:12	7/2/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/08/20 13:12	7/2/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/08/20 13:12	7/2/20	
Fluorene	9.1 U	9.1	1.2	1	07/08/20 13:12	7/2/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/08/20 13:12	7/2/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/08/20 13:12	7/2/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/08/20 13:12	7/2/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/08/20 13:12	7/2/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/08/20 13:12	7/2/20	
Isophorone	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/08/20 13:12	7/2/20	
Naphthalene	9.1 U	9.1	1.1	1	07/08/20 13:12	7/2/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/08/20 13:12	7/2/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/08/20 13:12	7/2/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	
Phenol	1.1 J	9.1	0.91	1	07/08/20 13:12	7/2/20	
Pyrene	9.1 U	9.1	1.3	1	07/08/20 13:12	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	114	35 - 141	07/08/20 13:12	
2-Fluorobiphenyl	83	31 - 118	07/08/20 13:12	
2-Fluorophenol	50	10 - 105	07/08/20 13:12	
Nitrobenzene-d5	83	31 - 110	07/08/20 13:12	
Phenol-d6	33	10 - 107	07/08/20 13:12	
p-Terphenyl-d14	54	10 - 165	07/08/20 13:12	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	12.69	4.1	J
	unknown	13.11	6.9	J
	unknown	7.86	4.1	J
	unknown	7.93	5.5	J



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 17:27	7/2/20	
alpha-BHC	0.12	0.045	0.019	1	07/08/20 17:27	7/2/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	
delta-BHC	0.076	0.045	0.019	1	07/08/20 17:27	7/2/20	
gamma-BHC (Lindane)	0.10	0.045	0.019	1	07/08/20 17:27	7/2/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 17:27	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	72	10 - 164	07/08/20 17:27	
Tetrachloro-m-xylene	75	10 - 147	07/08/20 17:27	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Aldrin	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Dieldrin	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Endrin	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Heptachlor	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
Toxaphene	0.46 U	0.46	0.46	1	07/07/20 13:08	7/2/20	
alpha-BHC	0.081	0.045	0.019	1	07/07/20 13:08	7/2/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
beta-BHC	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	
delta-BHC	0.068	0.045	0.019	1	07/07/20 13:08	7/2/20	
gamma-BHC (Lindane)	0.089	0.045	0.019	1	07/07/20 13:08	7/2/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/07/20 13:08	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 164	07/07/20 13:08	
Tetrachloro-m-xylene	59	10 - 147	07/07/20 13:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Aldrin	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Dieldrin	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Endrin	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Heptachlor	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
Toxaphene	0.46 U	0.46	0.46	1	07/07/20 13:27	7/2/20	
alpha-BHC	0.064	0.045	0.019	1	07/07/20 13:27	7/2/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	
beta-BHC	0.027 J	0.045	0.019	1	07/07/20 13:27	7/2/20	
delta-BHC	0.29	0.045	0.019	1	07/07/20 13:27	7/2/20	
gamma-BHC (Lindane)	0.074	0.045	0.019	1	07/07/20 13:27	7/2/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/07/20 13:27	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 164	07/07/20 13:27	
Tetrachloro-m-xylene	66	10 - 147	07/07/20 13:27	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Aldrin	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Dieldrin	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Endrin	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Heptachlor	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
Toxaphene	0.46 U	0.46	0.46	1	07/07/20 13:46	7/2/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
beta-BHC	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
delta-BHC	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/07/20 13:46	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 164	07/07/20 13:46	
Tetrachloro-m-xylene	58	10 - 147	07/07/20 13:46	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Aldrin	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Dieldrin	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Endrin	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Heptachlor	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
Toxaphene	0.46 U	0.46	0.46	1	07/06/20 17:42	7/2/20	
alpha-BHC	0.063 Ui	0.063	0.063	1	07/06/20 17:42	7/2/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
beta-BHC	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	
delta-BHC	0.037 J	0.045	0.019	1	07/06/20 17:42	7/2/20	
gamma-BHC (Lindane)	0.058	0.045	0.019	1	07/06/20 17:42	7/2/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/06/20 17:42	7/2/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	9 *	10 - 164	07/06/20 17:42	*
Tetrachloro-m-xylene	55	10 - 147	07/06/20 17:42	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
4,4'-DDE	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
4,4'-DDT	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Aldrin	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Dieldrin	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Endosulfan I	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Endosulfan II	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Endrin	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Endrin Ketone	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Heptachlor	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Methoxychlor	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
Toxaphene	0.46 U	0.46	0.46	1	07/13/20 15:58	7/10/20	*
alpha-BHC	0.059 Ui	0.059	0.059	1	07/13/20 15:58	7/10/20	*
alpha-Chlordane	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
beta-BHC	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*
delta-BHC	0.026 J	0.045	0.019	1	07/13/20 15:58	7/10/20	*
gamma-BHC (Lindane)	0.053	0.045	0.019	1	07/13/20 15:58	7/10/20	*
gamma-Chlordane	0.045 U	0.045	0.019	1	07/13/20 15:58	7/10/20	*

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	9 *	10 - 164	07/13/20 15:58	*
Tetrachloro-m-xylene	36	10 - 147	07/13/20 15:58	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 18:24	7/2/20	
alpha-BHC	0.10	0.045	0.019	1	07/08/20 18:24	7/2/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	
delta-BHC	0.12	0.045	0.019	1	07/08/20 18:24	7/2/20	
gamma-BHC (Lindane)	0.11	0.045	0.019	1	07/08/20 18:24	7/2/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 18:24	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 164	07/08/20 18:24	
Tetrachloro-m-xylene	79	10 - 147	07/08/20 18:24	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-019
Lab Code: R2005635-001

Service Request: R2005635
Date Collected: 06/30/20 09:05
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 21:12	7/2/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 21:12	7/2/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 21:12	7/2/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 21:12	7/2/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 21:12	7/2/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 21:12	7/2/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 21:12	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	103	10 - 152	07/08/20 21:12	
Tetrachloro-m-xylene	52	14 - 129	07/08/20 21:12	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-020
Lab Code: R2005635-002

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 21:33	7/2/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 21:33	7/2/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 21:33	7/2/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 21:33	7/2/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 21:33	7/2/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 21:33	7/2/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 21:33	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 152	07/08/20 21:33	
Tetrachloro-m-xylene	41	14 - 129	07/08/20 21:33	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-022
Lab Code: R2005635-003

Service Request: R2005635
Date Collected: 06/30/20 11:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 11:16	7/2/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 11:16	7/2/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 11:16	7/2/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 11:16	7/2/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 11:16	7/2/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 11:16	7/2/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 11:16	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 152	07/08/20 11:16	
Tetrachloro-m-xylene	45	14 - 129	07/08/20 11:16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004

Service Request: R2005635
Date Collected: 06/30/20 12:15
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 11:36	7/2/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 11:36	7/2/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 11:36	7/2/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 11:36	7/2/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 11:36	7/2/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 11:36	7/2/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 11:36	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	15	10 - 152	07/08/20 11:36	
Tetrachloro-m-xylene	40	14 - 129	07/08/20 11:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 12:37	7/2/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 12:37	7/2/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 12:37	7/2/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 12:37	7/2/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 12:37	7/2/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 12:37	7/2/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 12:37	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	9 *	10 - 152	07/08/20 12:37	*
Tetrachloro-m-xylene	40	14 - 129	07/08/20 12:37	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: RB-9954-063020-SG-002
Lab Code: R2005635-005

Service Request: R2005635
Date Collected: 06/30/20 13:00
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/13/20 15:14	7/10/20	*
Aroclor 1221	1.8 U	1.8	0.91	1	07/13/20 15:14	7/10/20	*
Aroclor 1232	0.91 U	0.91	0.46	1	07/13/20 15:14	7/10/20	*
Aroclor 1242	0.91 U	0.91	0.46	1	07/13/20 15:14	7/10/20	*
Aroclor 1248	0.91 U	0.91	0.46	1	07/13/20 15:14	7/10/20	*
Aroclor 1254	0.91 U	0.91	0.46	1	07/13/20 15:14	7/10/20	*
Aroclor 1260	0.91 U	0.91	0.46	1	07/13/20 15:14	7/10/20	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	9 *	10 - 152	07/13/20 15:14	*
Tetrachloro-m-xylene	31	14 - 129	07/13/20 15:14	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-063020-SG-021
Lab Code: R2005635-007

Service Request: R2005635
Date Collected: 06/30/20 10:10
Date Received: 07/01/20 11:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 22:33	7/2/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 22:33	7/2/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 22:33	7/2/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 22:33	7/2/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 22:33	7/2/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 22:33	7/2/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 22:33	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	95	10 - 152	07/08/20 22:33	
Tetrachloro-m-xylene	54	14 - 129	07/08/20 22:33	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005635

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
WG-9954-063020-SG-019	R2005635-001	94	100	101
WG-9954-063020-SG-020	R2005635-002	97	105	103
WG-9954-063020-SG-022	R2005635-003	95	102	102
WG-9954-063020-RM-023	R2005635-004	90	99	96
RB-9954-063020-SG-002	R2005635-005	94	99	101
TB-9954-063020-SG-004	R2005635-006	94	98	102
WG-9954-063020-SG-021	R2005635-007	95	100	101
Method Blank	RQ2007501-04	95	99	101
Lab Control Sample	RQ2007501-03	103	103	105
Method Blank	RQ2007451-04	95	99	102
Lab Control Sample	RQ2007451-03	99	100	101
WG-9954-063020-RM-023 MS	RQ2007451-05	96	96	98
WG-9954-063020-RM-023 DMS	RQ2007451-06	104	107	104

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Collected: 06/30/20
Date Received: 07/01/20
Date Analyzed: 07/14/20

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004
Analysis Method: 8260C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007451-05				Duplicate Matrix Spike RQ2007451-06				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,1,1-Trichloroethane (TCA)	5.0 U	51.1	50.0	102	56.3	50.0	113	74-127	10	30
1,1,2,2-Tetrachloroethane	5.0 U	51.3	50.0	103	56.5	50.0	113	72-122	10	30
1,1,2-Trichloroethane	5.0 U	48.8	50.0	98	52.9	50.0	106	82-121	8	30
1,1-Dichloroethane (1,1-DCA)	5.0 U	49.1	50.0	98	53.8	50.0	108	74-132	9	30
1,1-Dichloroethene (1,1-DCE)	5.0 U	57.1	50.0	114	64.9	50.0	130 *	71-118	13	30
1,2-Dichloroethane	5.0 U	46.2	50.0	92	51.1	50.0	102	68-130	10	30
1,2-Dichloropropane	5.0 U	47.9	50.0	96	54.3	50.0	109	79-124	12	30
2-Butanone (MEK)	10 U	51.9	50.0	104	54.5	50.0	109	61-137	5	30
2-Hexanone	10 U	46.0	50.0	92	48.7	50.0	97	56-132	6	30
4-Methyl-2-pentanone	10 U	46.8	50.0	94	53.4	50.0	107	60-141	13	30
Acetone	10 U	50.4	50.0	101	53.3	50.0	107	35-183	6	30
Benzene	5.0 U	48.9	50.0	98	54.3	50.0	109	76-129	10	30
Bromodichloromethane	5.0 U	48.4	50.0	97	53.5	50.0	107	78-133	10	30
Bromoform	5.0 U	46.1	50.0	92	51.3	50.0	103	58-133	11	30
Bromomethane	5.0 U	41.9	50.0	84	39.3	50.0	79	10-184	6	30
Carbon Disulfide	2.9 J	57.7	50.0	110	63.6	50.0	121	59-140	10	30
Carbon Tetrachloride	5.0 U	49.8	50.0	100	57.5	50.0	115	65-135	14	30
Chlorobenzene	5.0 U	47.5	50.0	95	52.1	50.0	104	76-125	9	30
Chloroethane	5.0 U	43.6	50.0	87	46.5	50.0	93	48-146	6	30
Chloroform	5.0 U	49.0	50.0	98	55.4	50.0	111	75-130	12	30
Chloromethane	5.0 U	54.0	50.0	108	57.1	50.0	114	55-160	6	30
Dibromochloromethane	5.0 U	51.2	50.0	102	57.6	50.0	115	72-128	12	30
Dichloromethane	5.0 U	47.1	50.0	94	51.6	50.0	103	73-122	9	30
Ethylbenzene	5.0 U	49.5	50.0	99	53.2	50.0	106	72-134	7	30
Styrene	5.0 U	45.0	50.0	90	48.9	50.0	98	74-136	8	30
Tetrachloroethene (PCE)	5.0 U	45.5	50.0	91	50.8	50.0	102	72-125	11	30
Toluene	0.31 BJ	52.1	50.0	104	56.6	50.0	113	79-119	8	30
Trichloroethene (TCE)	5.0 U	43.9	50.0	88	48.8	50.0	98	74-122	10	30
Vinyl Acetate	10 U	67.3	50.0	135	75.4	50.0	151	48-172	11	30
Vinyl Chloride	5.0 U	49.6	50.0	99	52.8	50.0	106	74-159	6	30
cis-1,2-Dichloroethene	5.0 U	49.3	50.0	99	54.0	50.0	108	77-127	9	30
cis-1,3-Dichloropropene	5.0 U	46.7	50.0	93	51.2	50.0	102	52-134	9	30
trans-1,2-Dichloroethene	5.0 U	54.2	50.0	108	61.0	50.0	122 *	73-118	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005635
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	06/30/20
Sample Matrix:	Water	Date Received:	07/01/20
		Date Analyzed:	07/14/20

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	WG-9954-063020-RM-023	Units:	ug/L
Lab Code:	R2005635-004	Basis:	NA
Analysis Method:	8260C		

Analyte Name	Sample Result	Matrix Spike RQ2007451-05			Duplicate Matrix Spike RQ2007451-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,3-Dichloropropene	5.0 U	45.2	50.0	90	50.8	50.0	102	71-133	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007451-04

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/13/20 19:02	
2-Butanone (MEK)	10 U	10	0.78	1	07/13/20 19:02	
2-Hexanone	10 U	10	0.20	1	07/13/20 19:02	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/13/20 19:02	
Acetone	10 U	10	5.0	1	07/13/20 19:02	
Benzene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
Bromoform	5.0 U	5.0	0.25	1	07/13/20 19:02	
Bromomethane	5.0 U	5.0	0.70	1	07/13/20 19:02	
Carbon Disulfide	10 U	10	0.42	1	07/13/20 19:02	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/13/20 19:02	
Chlorobenzene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Chloroethane	5.0 U	5.0	0.23	1	07/13/20 19:02	
Chloroform	5.0 U	5.0	0.24	1	07/13/20 19:02	
Chloromethane	0.32 J	5.0	0.28	1	07/13/20 19:02	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
Dichloromethane	5.0 U	5.0	0.65	1	07/13/20 19:02	
Ethylbenzene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Styrene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/13/20 19:02	
Toluene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/13/20 19:02	
Vinyl Acetate	10 U	10	1.1	1	07/13/20 19:02	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/13/20 19:02	
Xylenes, Total	5.0 U	5.0	0.23	1	07/13/20 19:02	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/13/20 19:02	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/13/20 19:02	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/13/20 19:02	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/13/20 19:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007451-04

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/13/20 19:02	
Dibromofluoromethane	99	89 - 119	07/13/20 19:02	
Toluene-d8	102	87 - 121	07/13/20 19:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007451-04

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007501-04

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 14:25	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 14:25	
2-Hexanone	10 U	10	0.20	1	07/14/20 14:25	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 14:25	
Acetone	10 U	10	5.0	1	07/14/20 14:25	
Benzene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 14:25	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 14:25	
Carbon Disulfide	10 U	10	0.42	1	07/14/20 14:25	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 14:25	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 14:25	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 14:25	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 14:25	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 14:25	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Styrene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 14:25	
Toluene	0.41 J	5.0	0.20	1	07/14/20 14:25	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 14:25	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 14:25	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 14:25	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 14:25	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 14:25	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 14:25	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 14:25	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 14:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007501-04

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/14/20 14:25	
Dibromofluoromethane	99	89 - 119	07/14/20 14:25	
Toluene-d8	101	87 - 121	07/14/20 14:25	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007501-04

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.61	8.5	J

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/13/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007451-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.0	20.0	105	75-125
1,1,2,2-Tetrachloroethane	8260C	23.6	20.0	118	78-126
1,1,2-Trichloroethane	8260C	21.4	20.0	107	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.6	20.0	103	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.0	20.0	120 *	71-118
1,2-Dichloroethane	8260C	20.8	20.0	104	71-127
1,2-Dichloropropane	8260C	21.3	20.0	106	80-119
2-Butanone (MEK)	8260C	23.3	20.0	116	61-137
2-Hexanone	8260C	20.5	20.0	102	63-124
4-Methyl-2-pentanone	8260C	21.0	20.0	105	66-124
Acetone	8260C	23.4	20.0	117	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromodichloromethane	8260C	21.1	20.0	105	81-123
Bromoform	8260C	21.4	20.0	107	65-146
Bromomethane	8260C	23.4	20.0	117	42-166
Carbon Disulfide	8260C	21.0	20.0	105	66-128
Carbon Tetrachloride	8260C	21.5	20.0	108	70-127
Chlorobenzene	8260C	21.1	20.0	106	80-121
Chloroethane	8260C	18.6	20.0	93	62-131
Chloroform	8260C	20.5	20.0	103	79-120
Chloromethane	8260C	22.9	20.0	115	65-135
Dibromochloromethane	8260C	22.6	20.0	113	72-128
Dichloromethane	8260C	20.3	20.0	102	73-122
Ethylbenzene	8260C	20.7	20.0	103	76-120
Styrene	8260C	21.1	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	19.1	20.0	95	72-125
Toluene	8260C	21.4	20.0	107	79-119
Trichloroethene (TCE)	8260C	19.6	20.0	98	74-122
Vinyl Acetate	8260C	30.4	20.0	152	52-174
Vinyl Chloride	8260C	22.9	20.0	115	74-159
cis-1,2-Dichloroethene	8260C	21.2	20.0	106	80-121
cis-1,3-Dichloropropene	8260C	21.0	20.0	105	77-122
trans-1,2-Dichloroethene	8260C	23.2	20.0	116	73-118

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/13/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007451-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	20.5	20.0	103	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/14/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007501-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.1	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	22.4	20.0	112	78-126
1,1,2-Trichloroethane	8260C	21.9	20.0	110	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.0	20.0	100	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.5	20.0	112	71-118
1,2-Dichloroethane	8260C	19.9	20.0	99	71-127
1,2-Dichloropropane	8260C	19.8	20.0	99	80-119
2-Butanone (MEK)	8260C	22.7	20.0	114	61-137
2-Hexanone	8260C	19.9	20.0	99	63-124
4-Methyl-2-pentanone	8260C	20.8	20.0	104	66-124
Acetone	8260C	21.8	20.0	109	40-161
Benzene	8260C	20.3	20.0	101	79-119
Bromodichloromethane	8260C	21.0	20.0	105	81-123
Bromoform	8260C	19.8	20.0	99	65-146
Bromomethane	8260C	19.2	20.0	96	42-166
Carbon Disulfide	8260C	21.2	20.0	106	66-128
Carbon Tetrachloride	8260C	21.0	20.0	105	70-127
Chlorobenzene	8260C	20.7	20.0	104	80-121
Chloroethane	8260C	18.2	20.0	91	62-131
Chloroform	8260C	20.1	20.0	101	79-120
Chloromethane	8260C	19.9	20.0	100	65-135
Dibromochloromethane	8260C	22.1	20.0	111	72-128
Dichloromethane	8260C	19.2	20.0	96	73-122
Ethylbenzene	8260C	21.4	20.0	107	76-120
Styrene	8260C	20.7	20.0	103	80-124
Tetrachloroethene (PCE)	8260C	19.9	20.0	100	72-125
Toluene	8260C	21.2	20.0	106	79-119
Trichloroethene (TCE)	8260C	18.0	20.0	90	74-122
Vinyl Acetate	8260C	35.0	20.0	175 *	52-174
Vinyl Chloride	8260C	18.8	20.0	94	74-159
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	80-121
cis-1,3-Dichloropropene	8260C	20.6	20.0	103	77-122
trans-1,2-Dichloroethene	8260C	22.7	20.0	114	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/14/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007501-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.9	20.0	100	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005635

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-063020-SG-019	R2005635-001	121	73	45
WG-9954-063020-SG-020	R2005635-002	102	69	44
WG-9954-063020-SG-022	R2005635-003	118	80	44
WG-9954-063020-RM-023	R2005635-004	102	74	40
RB-9954-063020-SG-002	R2005635-005	98	68	39
WG-9954-063020-SG-021	R2005635-007	114	83	50
Method Blank	RQ2007073-03	101	71	48
Lab Control Sample	RQ2007073-04	115	78	47
Duplicate Lab Control Sample	RQ2007073-05	103	67	47
WG-9954-063020-RM-023 MS	RQ2007073-01	121	86	50
WG-9954-063020-RM-023 DMS	RQ2007073-02	105	83	40

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005635

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-063020-SG-019	R2005635-001	71	29	51
WG-9954-063020-SG-020	R2005635-002	71	31	61
WG-9954-063020-SG-022	R2005635-003	71	32	64
WG-9954-063020-RM-023	R2005635-004	72	25	67
RB-9954-063020-SG-002	R2005635-005	65	27	62
WG-9954-063020-SG-021	R2005635-007	83	33	54
Method Blank	RQ2007073-03	69	35	66
Lab Control Sample	RQ2007073-04	80	34	58
Duplicate Lab Control Sample	RQ2007073-05	66	34	59
WG-9954-063020-RM-023 MS	RQ2007073-01	78	34	55
WG-9954-063020-RM-023 DMS	RQ2007073-02	73	29	45

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Collected: 06/30/20
Date Received: 07/01/20
Date Analyzed: 07/6/20
Date Extracted: 07/2/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007073-01				Duplicate Matrix Spike RQ2007073-02				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4-Trichlorobenzene	9.1 U	54.7	72.7	75	49.2	72.7	68	10-127	10	30
1,2-Dichlorobenzene	9.1 U	50.1	72.7	69	40.9	72.7	56	17-105	21	30
1,3-Dichlorobenzene	9.1 U	51.3	72.7	71	41.0	72.7	56	21-99	24	30
1,4-Dichlorobenzene	9.1 U	51.3	72.7	71	41.3	72.7	57	10-124	22	30
2,4,5-Trichlorophenol	9.1 U	65.0	72.7	89	59.6	72.7	82	48-134	8	30
2,4,6-Trichlorophenol	9.1 U	63.7	72.7	88	53.5	72.7	74	44-135	17	30
2,4-Dichlorophenol	9.1 U	59.9	72.7	82	50.3	72.7	69	40-130	17	30
2,4-Dimethylphenol	9.1 U	61.9	72.7	85	61.6	72.7	85	42-121	<1	30
2,4-Dinitrophenol	45 U	32.7 J	72.7	45	28.3 J	72.7	39	21-168	14	30
2,4-Dinitrotoluene	9.1 U	70.5	72.7	97	64.5	72.7	89	37-143	9	30
2,6-Dinitrotoluene	9.1 U	75.1	72.7	103	65.4	72.7	90	39-136	13	30
2-Chloronaphthalene	9.1 U	63.8	72.7	88	59.8	72.7	82	40-108	7	30
2-Chlorophenol	9.1 U	50.3	72.7	69	42.2	72.7	58	37-112	17	30
2-Methylnaphthalene	9.1 U	59.0	72.7	81	55.9	72.7	77	34-102	5	30
2-Methylphenol	9.1 U	52.5	72.7	72	47.1	72.7	65	37-102	10	30
2-Nitroaniline	9.1 U	74.3	72.7	102	73.2	72.7	101	40-136	<1	30
2-Nitrophenol	9.1 U	56.6	72.7	78	49.9	72.7	69	27-143	12	30
3,3'-Dichlorobenzidine	9.1 U	71.2	72.7	98	70.0	72.7	96	11-131	2	30
3- and 4-Methylphenol Coelution	9.1 U	49.0	72.7	67	46.0	72.7	63	30-95	6	30
3-Nitroaniline	9.1 U	60.1	72.7	83	62.0	72.7	85	19-117	2	30
4,6-Dinitro-2-methylphenol	45 U	52.1	72.7	72	49.5	72.7	68	25-154	6	30
4-Bromophenyl Phenyl Ether	9.1 U	65.3	72.7	90	64.2	72.7	88	39-115	2	30
4-Chloro-3-methylphenol	9.1 U	64.7	72.7	89	63.9	72.7	88	41-126	1	30
4-Chloroaniline	9.1 U	60.3	72.7	83	64.8	72.7	89	19-111	7	30
4-Chlorophenyl Phenyl Ether	9.1 U	61.7	72.7	85	62.9	72.7	86	41-111	1	30
4-Nitroaniline	9.1 U	65.4	72.7	90	68.2	72.7	94	18-143	4	30
4-Nitrophenol	45 U	30.6 J	72.7	42	26.4 J	72.7	36	10-126	15	30
Acenaphthene	9.1 U	64.5	72.7	89	62.5	72.7	86	43-117	3	30
Acenaphthylene	9.1 U	68.7	72.7	94	67.6	72.7	93	45-119	1	30
Anthracene	9.1 U	67.7	72.7	93	65.8	72.7	90	45-127	3	30
Benz(a)anthracene	9.1 U	50.7	72.7	70	45.3	72.7	62	46-126	12	30
Benzo(a)pyrene	9.1 U	52.1	72.7	72	45.5	72.7	63	44-114	13	30
Benzo(b)fluoranthene	9.1 U	46.3	72.7	64	42.0	72.7	58	41-127	10	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Collected: 06/30/20
Date Received: 07/01/20
Date Analyzed: 07/6/20
Date Extracted: 07/2/20

Duplicate Matrix Spike Summary
Semivolatle Organic Compounds by GC/MS

Sample Name: WG-9954-063020-RM-023
Lab Code: R2005635-004
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2007073-01			Duplicate Matrix Spike RQ2007073-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(g,h,i)perylene	9.1 U	53.0	72.7	73	47.7	72.7	66	50-143	10	30
Benzo(k)fluoranthene	9.1 U	49.5	72.7	68	42.9	72.7	59	46-139	14	30
Benzoic Acid	91 U	63.2 J	109	58	58.1 J	109	53	10-94	9	30
Benzyl Alcohol	9.1 U	64.8	72.7	89	62.8	72.7	86	31-109	3	30
2,2'-Oxybis(1-chloropropane)	9.1 U	50.4	72.7	69	41.9	72.7	58	21-126	17	30
Bis(2-chloroethoxy)methane	9.1 U	55.2	72.7	76	55.0	72.7	76	41-118	<1	30
Bis(2-chloroethyl) Ether	9.1 U	48.6	72.7	67	42.6	72.7	59	33-108	13	30
Bis(2-ethylhexyl) Phthalate	9.1 U	44.3	72.7	61	38.8	72.7	53	41-132	14	30
Butyl Benzyl Phthalate	9.1 U	55.3	72.7	76	53.2	72.7	73	41-148	4	30
Chrysene	9.1 U	53.2	72.7	73	46.8	72.7	64	47-126	13	30
Di-n-butyl Phthalate	9.1 U	72.2	72.7	99	67.8	72.7	93	43-130	6	30
Di-n-octyl Phthalate	9.1 U	43.5	72.7	60	37.9	72.7	52	40-139	14	30
Dibenz(a,h)anthracene	9.1 U	57.9	72.7	80	50.2	72.7	69	43-136	15	30
Dibenzofuran	9.1 U	69.3	72.7	95	67.1	72.7	92	46-119	3	30
Diethyl Phthalate	9.1 U	64.9	72.7	89	61.4	72.7	84	36-122	6	30
Dimethyl Phthalate	9.1 U	73.9	72.7	102	72.8	72.7	100	33-123	2	30
Fluoranthene	9.1 U	74.6	72.7	103	71.5	72.7	98	43-135	5	30
Fluorene	9.1 U	70.5	72.7	97	67.4	72.7	93	43-113	4	30
Hexachlorobenzene	9.1 U	70.8	72.7	97	65.4	72.7	90	42-125	7	30
Hexachlorobutadiene	9.1 U	63.6	72.7	87	59.6	72.7	82	10-111	6	30
Hexachlorocyclopentadiene	9.1 U	23.5	72.7	32	19.6	72.7	27	10-103	17	30
Hexachloroethane	9.1 U	54.0	72.7	74	41.8	72.7	57	12-101	26	30
Indeno(1,2,3-cd)pyrene	9.1 U	53.4	72.7	73	47.3	72.7	65	49-140	12	30
Isophorone	9.1 U	50.4	72.7	69	50.1	72.7	69	40-111	<1	30
N-Nitrosodi-n-propylamine	9.1 U	63.5	72.7	87	59.7	72.7	82	35-108	6	30
N-Nitrosodiphenylamine	9.1 U	80.4	72.7	111	78.7	72.7	108	43-127	3	30
Naphthalene	9.1 U	59.5	72.7	82	51.3	72.7	71	37-108	14	30
Nitrobenzene	9.1 U	59.1	72.7	81	51.5	72.7	71	35-112	13	30
Pentachlorophenol (PCP)	45 U	60.6	72.7	83	53.0	72.7	73	29-164	13	30
Phenanthrene	9.1 U	66.9	72.7	92	65.0	72.7	89	46-123	3	30
Phenol	9.1 U	28.2	72.7	39	27.2	72.7	37	10-113	5	30
Pyrene	9.1 U	64.3	72.7	88	60.3	72.7	83	44-129	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007073-03

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2,4-Dinitrophenol	50 U	50	20	1	07/06/20 14:53	7/2/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/06/20 14:53	7/2/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2-Chlorophenol	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
2-Methylphenol	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
2-Nitroaniline	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
2-Nitrophenol	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
3-Nitroaniline	10 U	10	2.5	1	07/06/20 14:53	7/2/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/06/20 14:53	7/2/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/06/20 14:53	7/2/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
4-Chloroaniline	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
4-Nitroaniline	10 U	10	2.7	1	07/06/20 14:53	7/2/20	
4-Nitrophenol	50 U	50	6.4	1	07/06/20 14:53	7/2/20	
Acenaphthene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Acenaphthylene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Anthracene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Benz(a)anthracene	10 U	10	1.6	1	07/06/20 14:53	7/2/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Benzoic Acid	100 U	100	36	1	07/06/20 14:53	7/2/20	
Benzyl Alcohol	10 U	10	1.6	1	07/06/20 14:53	7/2/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/06/20 14:53	7/2/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Chrysene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007073-03

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/06/20 14:53	7/2/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/06/20 14:53	7/2/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
Dibenzofuran	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Diethyl Phthalate	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Fluoranthene	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
Fluorene	10 U	10	1.3	1	07/06/20 14:53	7/2/20	
Hexachlorobenzene	10 U	10	1.6	1	07/06/20 14:53	7/2/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/06/20 14:53	7/2/20	
Hexachloroethane	10 U	10	1.1	1	07/06/20 14:53	7/2/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/06/20 14:53	7/2/20	
Isophorone	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/06/20 14:53	7/2/20	
Naphthalene	10 U	10	1.2	1	07/06/20 14:53	7/2/20	
Nitrobenzene	10 U	10	1.5	1	07/06/20 14:53	7/2/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/06/20 14:53	7/2/20	
Phenanthrene	10 U	10	1.4	1	07/06/20 14:53	7/2/20	
Phenol	10 U	10	1.0	1	07/06/20 14:53	7/2/20	
Pyrene	10 U	10	1.5	1	07/06/20 14:53	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	101	35 - 141	07/06/20 14:53	
2-Fluorobiphenyl	71	31 - 118	07/06/20 14:53	
2-Fluorophenol	48	10 - 105	07/06/20 14:53	
Nitrobenzene-d5	69	31 - 110	07/06/20 14:53	
Phenol-d6	35	10 - 107	07/06/20 14:53	
p-Terphenyl-d14	66	10 - 165	07/06/20 14:53	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	11.52	7.9	J
	unknown	11.93	8.1	J
	unknown hydrocarbon	12.08	12	J
	unknown hydrocarbon	12.69	17	J
	unknown hydrocarbon	13.36	17	J
	unknown hydrocarbon	14.08	14	J
	unknown hydrocarbon	14.85	13	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007073-03

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	15.65	11	J
	unknown	16.34	8.5	J

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/06/20 - 07/08/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2007073-04					Duplicate Lab Control Sample RQ2007073-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	56.0	80.0	70	50.2	80.0	63	10-127	11	30
1,2-Dichlorobenzene	8270D	56.6	80.0	71	47.1	80.0	59	23-130	18	30
1,3-Dichlorobenzene	8270D	55.5	80.0	69	48.6	80.0	61	21-90	12	30
1,4-Dichlorobenzene	8270D	53.4	80.0	67	47.6	80.0	60	10-124	11	30
2,4,5-Trichlorophenol	8270D	69.5	80.0	87	57.7	80.0	72	48-134	19	30
2,4,6-Trichlorophenol	8270D	65.0	80.0	81	55.5	80.0	69	44-135	16	30
2,4-Dichlorophenol	8270D	58.0	80.0	73	50.9	80.0	64	48-127	13	30
2,4-Dimethylphenol	8270D	58.8	80.0	74	56.3	80.0	70	59-113	6	30
2,4-Dinitrophenol	8270D	48.1 J	80.0	60	43.6 J	80.0	55	21-154	9	30
2,4-Dinitrotoluene	8270D	64.1	80.0	80	55.3	80.0	69	54-130	15	30
2,6-Dinitrotoluene	8270D	73.4	80.0	92	65.1	80.0	81	51-127	13	30
2-Chloronaphthalene	8270D	65.8	80.0	82	56.4	80.0	71	40-108	14	30
2-Chlorophenol	8270D	52.9	80.0	66	49.9	80.0	62	42-112	6	30
2-Methylnaphthalene	8270D	58.8	80.0	74	52.4	80.0	65	34-102	13	30
2-Methylphenol	8270D	55.4	80.0	69	50.8	80.0	64	47-100	8	30
2-Nitroaniline	8270D	67.4	80.0	84	65.2	80.0	82	52-133	2	30
2-Nitrophenol	8270D	58.6	80.0	73	51.8	80.0	65	43-131	12	30
3,3'-Dichlorobenzidine	8270D	59.9	80.0	75	56.1	80.0	70	43-126	7	30
3- and 4-Methylphenol Coelution	8270D	48.9	80.0	61	47.2	80.0	59	40-92	3	30
3-Nitroaniline	8270D	58.4	80.0	73	62.2	80.0	78	42-111	7	30
4,6-Dinitro-2-methylphenol	8270D	54.0	80.0	68	45.9 J	80.0	57	36-152	18	30
4-Bromophenyl Phenyl Ether	8270D	66.2	80.0	83	60.4	80.0	75	48-114	10	30
4-Chloro-3-methylphenol	8270D	62.1	80.0	78	55.8	80.0	70	52-113	11	30
4-Chloroaniline	8270D	57.6	80.0	72	61.9	80.0	77	44-109	7	30
4-Chlorophenyl Phenyl Ether	8270D	58.4	80.0	73	49.4	80.0	62	51-107	16	30
4-Nitroaniline	8270D	58.1	80.0	73	50.1	80.0	63	54-133	15	30
4-Nitrophenol	8270D	20.2 J	80.0	25	18.7 J	80.0	23	10-126	8	30
Acenaphthene	8270D	64.3	80.0	80	58.2	80.0	73	52-107	9	30
Acenaphthylene	8270D	70.3	80.0	88	62.1	80.0	78	55-109	12	30
Anthracene	8270D	67.2	80.0	84	59.9	80.0	75	55-116	11	30
Benz(a)anthracene	8270D	60.6	80.0	76	58.1	80.0	73	61-121	4	30
Benzo(a)pyrene	8270D	62.2	80.0	78	61.3	80.0	77	44-114	1	30
Benzo(b)fluoranthene	8270D	59.2	80.0	74	58.3	80.0	73	62-115	1	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/06/20 - 07/08/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	70.4	80.0	88	68.4	80.0	85	63-136	3	30
Benzo(k)fluoranthene	8270D	68.5	80.0	86	64.2	80.0	80	49-133	7	30
Benzoic Acid	8270D	70.9 J	120	59	67.3 J	120	56	10-94	5	30
Benzyl Alcohol	8270D	60.0	80.0	75	58.9	80.0	74	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	63.4	80.0	79	54.4	80.0	68	32-122	15	30
Bis(2-chloroethoxy)methane	8270D	66.2	80.0	83	57.4	80.0	72	55-110	14	30
Bis(2-chloroethyl) Ether	8270D	61.0	80.0	76	51.7	80.0	65	46-102	16	30
Bis(2-ethylhexyl) Phthalate	8270D	62.1	80.0	78	60.8	80.0	76	51-132	3	30
Butyl Benzyl Phthalate	8270D	62.3	80.0	78	60.3	80.0	75	41-148	4	30
Chrysene	8270D	65.3	80.0	82	63.8	80.0	80	57-118	2	30
Di-n-butyl Phthalate	8270D	72.4	80.0	91	66.3	80.0	83	57-128	9	30
Di-n-octyl Phthalate	8270D	63.7	80.0	80	61.0	80.0	76	62-124	5	30
Dibenz(a,h)anthracene	8270D	75.6	80.0	95	71.4	80.0	89	54-135	7	30
Dibenzofuran	8270D	69.7	80.0	87	57.6	80.0	72	55-110	19	30
Diethyl Phthalate	8270D	62.9	80.0	79	53.9	80.0	67	53-113	16	30
Dimethyl Phthalate	8270D	72.4	80.0	90	64.0	80.0	80	51-112	12	30
Fluoranthene	8270D	72.0	80.0	90	66.4	80.0	83	66-127	8	30
Fluorene	8270D	69.1	80.0	86	56.8	80.0	71	54-106	19	30
Hexachlorobenzene	8270D	73.1	80.0	91	69.0	80.0	86	53-123	6	30
Hexachlorobutadiene	8270D	58.0	80.0	73	53.1	80.0	66	16-95	10	30
Hexachlorocyclopentadiene	8270D	19.1	80.0	24	18.0	80.0	23	10-99	4	30
Hexachloroethane	8270D	55.7	80.0	70	49.0	80.0	61	15-92	14	30
Indeno(1,2,3-cd)pyrene	8270D	62.2	80.0	78	61.9	80.0	77	62-137	1	30
Isophorone	8270D	54.6	80.0	68	48.0	80.0	60	50-116	13	30
N-Nitrosodi-n-propylamine	8270D	66.7	80.0	83	60.7	80.0	76	49-115	9	30
N-Nitrosodiphenylamine	8270D	85.1	80.0	106	75.5	80.0	94	45-123	12	30
Naphthalene	8270D	62.2	80.0	78	54.1	80.0	68	38-99	14	30
Nitrobenzene	8270D	60.1	80.0	75	54.5	80.0	68	46-108	10	30
Pentachlorophenol (PCP)	8270D	67.6	80.0	85	59.1	80.0	74	29-164	14	30
Phenanthrene	8270D	67.1	80.0	84	61.2	80.0	77	58-118	9	30
Phenol	8270D	31.5	80.0	39	32.0	80.0	40	10-113	3	30
Pyrene	8270D	69.2	80.0	86	65.3	80.0	82	61-122	5	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005635

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-063020-SG-019	R2005635-001	72	75
WG-9954-063020-SG-020	R2005635-002	74	59
WG-9954-063020-SG-022	R2005635-003	52	66
WG-9954-063020-RM-023	R2005635-004	18	58
RB-9954-063020-SG-002	R2005635-005	9*	55
RB-9954-063020-SG-002 RE	R2005635-005	9*	36
WG-9954-063020-SG-021	R2005635-007	85	79
Method Blank	RQ2007072-05	63	55
Method Blank	RQ2007347-01	63	65
Lab Control Sample	RQ2007072-06	55	49
Duplicate Lab Control Sample	RQ2007072-07	76	60
Lab Control Sample	RQ2007347-02	56	58
Duplicate Lab Control Sample	RQ2007347-03	62	55
WG-9954-063020-RM-023 MS	RQ2007072-01	19	63
WG-9954-063020-RM-023 DMS	RQ2007072-02	32	66

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QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005635
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	06/30/20
Sample Matrix:	Water	Date Received:	07/01/20
		Date Analyzed:	07/7/20
		Date Extracted:	07/2/20

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-063020-RM-023	Units:	ug/L
Lab Code:	R2005635-004	Basis:	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

Analyte Name	Sample Result	Matrix Spike RQ2007072-01			Duplicate Matrix Spike RQ2007072-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
4,4'-DDD	0.045 U	0.261	0.364	72	0.308	0.364	85	38-157	17	30
4,4'-DDE	0.045 U	0.261	0.364	72	0.303	0.364	83	10-200	15	30
4,4'-DDT	0.045 U	0.246	0.364	68	0.293	0.364	81	19-154	18	30
Aldrin	0.045 U	0.212	0.364	58	0.235	0.364	65	26-149	10	30
Dieldrin	0.045 U	0.297	0.364	82	0.354	0.364	97	41-164	18	30
Endosulfan I	0.045 U	0.294	0.364	81	0.352	0.364	97	47-149	18	30
Endosulfan II	0.045 U	0.306	0.364	84	0.360	0.364	99	51-148	16	30
Endosulfan Sulfate	0.045 U	0.259	0.364	71	0.301	0.364	83	10-170	15	30
Endrin	0.045 U	0.291	0.364	80	0.347	0.364	96	48-165	18	30
Endrin Ketone	0.045 U	0.301	0.364	83	0.361	0.364	99	48-162	18	30
Heptachlor	0.045 U	0.157	0.364	43	0.181	0.364	50	29-168	15	30
Heptachlor Epoxide	0.045 U	0.296	0.364	81	0.351	0.364	97	29-180	17	30
Methoxychlor	0.045 U	0.286	0.364	79	0.338	0.364	93	38-162	17	30
alpha-BHC	0.045 U	0.283	0.364	78	0.340	0.364	94	27-154	18	30
alpha-Chlordane	0.045 U	0.277	0.364	76	0.326	0.364	90	35-160	16	30
beta-BHC	0.045 U	0.309	0.364	85	0.362	0.364	100	32-184	16	30
delta-BHC	0.045 U	0.278	0.364	76	0.331	0.364	91	10-182	17	30
gamma-BHC (Lindane)	0.045 U	0.289	0.364	79	0.345	0.364	95	43-164	18	30
gamma-Chlordane	0.045 U	0.292	0.364	80	0.341	0.364	94	35-165	15	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007072-05

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Aldrin	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Dieldrin	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Endrin	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Heptachlor	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
Toxaphene	0.50 U	0.50	0.50	1	07/06/20 14:30	7/2/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
beta-BHC	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
delta-BHC	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/06/20 14:30	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 164	07/06/20 14:30	
Tetrachloro-m-xylene	55	10 - 147	07/06/20 14:30	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007347-01

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Aldrin	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Dieldrin	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endrin	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Heptachlor	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Toxaphene	0.50 U	0.50	0.50	1	07/13/20 14:42	7/10/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
beta-BHC	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
delta-BHC	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 164	07/13/20 14:42	
Tetrachloro-m-xylene	65	10 - 147	07/13/20 14:42	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2007072-06					Duplicate Lab Control Sample RQ2007072-07					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.249	0.400	62	0.314	0.400	79	42-159	23	30
4,4'-DDE	8081B	0.235	0.400	59	0.316	0.400	79	47-147	29	30
4,4'-DDT	8081B	0.234	0.400	58	0.309	0.400	77	41-149	28	30
Aldrin	8081B	0.190	0.400	48	0.222	0.400	55	22-137	15	30
Dieldrin	8081B	0.259	0.400	65	0.348	0.400	87	52-144	30	30
Endosulfan I	8081B	0.254	0.400	63	0.336	0.400	84	52-136	28	30
Endosulfan II	8081B	0.261	0.400	65	0.360	0.400	90	57-138	32*	30
Endosulfan Sulfate	8081B	0.222	0.400	56	0.302	0.400	75	34-156	30	30
Endrin	8081B	0.255	0.400	64	0.343	0.400	86	56-143	29	30
Endrin Ketone	8081B	0.262	0.400	66	0.345	0.400	86	59-143	27	30
Heptachlor	8081B	0.158	0.400	39	0.195	0.400	49	32-141	21	30
Heptachlor Epoxide	8081B	0.251	0.400	63	0.331	0.400	83	51-143	28	30
Methoxychlor	8081B	0.232	0.400	58	0.302	0.400	76	56-149	26	30
alpha-BHC	8081B	0.232	0.400	58	0.289	0.400	72	36-151	22	30
alpha-Chlordane	8081B	0.246	0.400	62	0.323	0.400	81	50-139	27	30
beta-BHC	8081B	0.255	0.400	64	0.326	0.400	82	55-149	24	30
delta-BHC	8081B	0.223	0.400	56	0.298	0.400	74	29-159	29	30
gamma-BHC (Lindane)	8081B	0.236	0.400	59	0.298	0.400	74	41-149	23	30
gamma-Chlordane	8081B	0.260	0.400	65	0.320	0.400	80	50-140	21	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/13/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2007347-02					Duplicate Lab Control Sample RQ2007347-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.303	0.400	76	0.342	0.400	86	42-159	12	30
4,4'-DDE	8081B	0.280	0.400	70	0.322	0.400	81	47-147	14	30
4,4'-DDT	8081B	0.309	0.400	77	0.353	0.400	88	41-149	13	30
Aldrin	8081B	0.236	0.400	59	0.234	0.400	59	22-137	<1	30
Dieldrin	8081B	0.307	0.400	77	0.346	0.400	86	52-144	12	30
Endosulfan I	8081B	0.296	0.400	74	0.329	0.400	82	52-136	11	30
Endosulfan II	8081B	0.236	0.400	59	0.283	0.400	71	57-138	18	30
Endosulfan Sulfate	8081B	0.267	0.400	67	0.310	0.400	78	34-156	15	30
Endrin	8081B	0.319	0.400	80	0.357	0.400	89	56-143	11	30
Endrin Ketone	8081B	0.301	0.400	75	0.346	0.400	87	59-143	14	30
Heptachlor	8081B	0.274	0.400	68	0.283	0.400	71	32-141	3	30
Heptachlor Epoxide	8081B	0.307	0.400	77	0.338	0.400	84	51-143	10	30
Methoxychlor	8081B	0.318	0.400	80	0.359	0.400	90	56-149	12	30
alpha-BHC	8081B	0.297	0.400	74	0.313	0.400	78	36-151	5	30
alpha-Chlordane	8081B	0.293	0.400	73	0.322	0.400	80	50-139	9	30
beta-BHC	8081B	0.315	0.400	79	0.341	0.400	85	55-149	8	30
delta-BHC	8081B	0.292	0.400	73	0.328	0.400	82	29-159	12	30
gamma-BHC (Lindane)	8081B	0.305	0.400	76	0.326	0.400	82	41-149	7	30
gamma-Chlordane	8081B	0.296	0.400	74	0.323	0.400	81	50-140	9	30

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005635

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-063020-SG-019	R2005635-001	103	52
WG-9954-063020-SG-020	R2005635-002	78	41
WG-9954-063020-SG-022	R2005635-003	42	45
WG-9954-063020-RM-023	R2005635-004	15	40
RB-9954-063020-SG-002	R2005635-005	9*	40
RB-9954-063020-SG-002 RE	R2005635-005	9*	31
WG-9954-063020-SG-021	R2005635-007	95	54
Method Blank	RQ2007072-05	57	44
Method Blank	RQ2007347-01	69	59
Lab Control Sample	RQ2007072-06	63	48
Duplicate Lab Control Sample	RQ2007072-07	66	48
Lab Control Sample	RQ2007347-02	70	48
Duplicate Lab Control Sample	RQ2007347-03	68	53
WG-9954-063020-RM-023 MS	RQ2007072-03	29	38
WG-9954-063020-RM-023 DMS	RQ2007072-04	19	35

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QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005635
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	06/30/20
Sample Matrix:	Water	Date Received:	07/01/20
		Date Analyzed:	07/8/20
		Date Extracted:	07/2/20

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	WG-9954-063020-RM-023	Units:	ug/L
Lab Code:	R2005635-004	Basis:	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

Analyte Name	Sample Result	Result	Matrix Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1016	0.91 U	2.30	3.64	63	2.36	3.64	65	32-142	2	30
Aroclor 1260	0.91 U	2.38	3.64	65	2.43	3.64	67	28-142	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007072-05

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/06/20 19:25	7/2/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/06/20 19:25	7/2/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/06/20 19:25	7/2/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/06/20 19:25	7/2/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/06/20 19:25	7/2/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/06/20 19:25	7/2/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/06/20 19:25	7/2/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	57	10 - 152	07/06/20 19:25	
Tetrachloro-m-xylene	44	14 - 129	07/06/20 19:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007347-01

Service Request: R2005635
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/13/20 14:13	7/10/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 152	07/13/20 14:13	
Tetrachloro-m-xylene	59	14 - 129	07/13/20 14:13	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/06/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2007072-06					RQ2007072-07					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	2.83	4.00	71	2.66	4.00	67	49-123	6	30
Aroclor 1260	8082A	3.17	4.00	79	3.22	4.00	80	30-120	2	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005635
Date Analyzed: 07/13/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2007347-02					RQ2007347-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	3.35	4.00	84	3.40	4.00	85	49-123	2	30
Aroclor 1260	8082A	3.98	4.00	100	3.79	4.00	95	30-120	5	30



July 30, 2020

Service Request No:R2005701

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory July 02, 2020
For your reference, these analyses have been assigned our service request number **R2005701**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005701
Date Received: 07/02/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 07/02/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/09/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/09/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/09/2020: The lower control limit for the spike recovery of the Matrix Spike/Matrix Spike Duplicate (MS/MSD) was exceeded for one or more analyte due to sample matrix. The LCS/LCSD was within limits for all analytes. The analytes affected are flagged in the MS Summary.

Method 8270D, 07/13/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, R2005701-001, -006: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Semivolatile GC:


Method 8081B, R2005701-001: The control limits were exceeded for one or more surrogates. A reanalysis was not performed because insufficient sample was available. No further corrective action was possible.

Method 8081B, R2005701-006: The control limits were exceeded for one or more surrogates due to matrix interferences. A re-extraction and reanalysis was performed, but produced similar results. The re-extraction was performed out of holding time. No further corrective action was required.

Method 8082A, 07/08/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/10/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC/MS:

Approved by 

Date 07/30/2020



Method 8260C, 07/13/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 07/15/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/14/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by 

Date 07/30/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070120-SG-027
Lab ID: R2005701-001

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,2,2-Tetrachloroethane	6.1		0.20	5.0	ug/L	8260C
1,1,2-Trichloroethane	12		0.20	5.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.63	J	0.20	5.0	ug/L	8260C
2-Butanone (MEK)	12		0.78	10	ug/L	8260C
Acetone	79		5.0	10	ug/L	8260C
Benzene	1300	E	0.20	5.0	ug/L	8260C
Chlorobenzene	770	E	0.20	5.0	ug/L	8260C
Chloroform	140		0.24	5.0	ug/L	8260C
Dichloromethane	6.4		0.65	5.0	ug/L	8260C
Ethylbenzene	12		0.20	5.0	ug/L	8260C
Tetrachloroethene (PCE)	20		0.21	5.0	ug/L	8260C
Toluene	1700	E	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	120		0.20	5.0	ug/L	8260C
Vinyl Chloride	10		0.20	5.0	ug/L	8260C
Xylenes, Total	58		0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	26		0.23	5.0	ug/L	8260C
trans-1,2-Dichloroethene	29		0.20	5.0	ug/L	8260C
Benzene	6500	D	40	1000	ug/L	8260C
Bromodichloromethane	60	DJ	40	1000	ug/L	8260C
Chlorobenzene	2500	D	40	1000	ug/L	8260C
Chloroform	400	DJ	48	1000	ug/L	8260C
Toluene	22000	D	40	1000	ug/L	8260C
Trichloroethene (TCE)	100	DJ	40	1000	ug/L	8260C
1,2,4-Trichlorobenzene	93		1.1	9.1	ug/L	8270D
1,2-Dichlorobenzene	25		1.1	9.1	ug/L	8270D
1,3-Dichlorobenzene	3.6	J	0.92	9.1	ug/L	8270D
1,4-Dichlorobenzene	73		1.1	9.1	ug/L	8270D
2,4,5-Trichlorophenol	37		0.99	9.1	ug/L	8270D
2,4-Dichlorophenol	550	E	1.2	9.1	ug/L	8270D
2,4-Dimethylphenol	8.9	J	1.3	9.1	ug/L	8270D
2-Chlorophenol	27		0.97	9.1	ug/L	8270D
2-Methylnaphthalene	1.4	J	1.2	9.1	ug/L	8270D
2-Methylphenol	32		0.91	9.1	ug/L	8270D
3- and 4-Methylphenol Coelution	71		1.1	9.1	ug/L	8270D
4-Chloro-3-methylphenol	46		0.98	9.1	ug/L	8270D
Benzoic Acid	4500	E	33	91	ug/L	8270D
Benzyl Alcohol	290		1.5	9.1	ug/L	8270D
Bis(2-chloroethyl) Ether	20		1.2	9.1	ug/L	8270D
Phenol	40		0.91	9.1	ug/L	8270D
1,2,4-Trichlorobenzene	59	J	26	230	ug/L	8270D
1,4-Dichlorobenzene	72	J	26	230	ug/L	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070120-SG-027	Lab ID: R2005701-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
2,4,5-Trichlorophenol	50	J	25	230	ug/L	8270D
2,4-Dichlorophenol	330	D	29	230	ug/L	8270D
2-Methylphenol	32	J	23	230	ug/L	8270D
3- and 4-Methylphenol Coelution	60	J	27	230	ug/L	8270D
4-Chloro-3-methylphenol	31	J	25	230	ug/L	8270D
Benzoic Acid	9200	E	820	2300	ug/L	8270D
Benzyl Alcohol	240		36	230	ug/L	8270D
Phenol	32	J	23	230	ug/L	8270D
1,2,4-Trichlorobenzene	67	J	51	450	ug/L	8270D
1,4-Dichlorobenzene	73	J	52	450	ug/L	8270D
2,4-Dichlorophenol	340	J	57	450	ug/L	8270D
3- and 4-Methylphenol Coelution	61	J	53	450	ug/L	8270D
Benzoic Acid	11000	D	1700	4500	ug/L	8270D
Benzyl Alcohol	220	J	71	450	ug/L	8270D
Aldrin	1.0	P	0.19	0.45	ug/L	8081B
alpha-BHC	27		0.19	0.45	ug/L	8081B
beta-BHC	6.8	P	0.19	0.45	ug/L	8081B
delta-BHC	9.2		0.19	0.45	ug/L	8081B
gamma-BHC (Lindane)	6.5		0.19	0.45	ug/L	8081B

CLIENT ID: WG-9954-070120-SG-026	Lab ID: R2005701-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	3.3	J	0.42	10	ug/L	8260C
Chlorobenzene	0.89	J	0.20	5.0	ug/L	8260C
Toluene	0.26	BJ	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	6.5		0.20	5.0	ug/L	8260C
cis-1,2-Dichloroethene	3.3	J	0.23	5.0	ug/L	8260C
1,2,4-Trichlorobenzene	7.7	J	1.1	9.1	ug/L	8270D
alpha-BHC	0.27		0.019	0.045	ug/L	8081B
beta-BHC	0.040	J	0.019	0.045	ug/L	8081B
delta-BHC	0.17		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.21		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070120-SG-025	Lab ID: R2005701-003
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Toluene	0.27	BJ	0.20	5.0	ug/L	8260C
alpha-BHC	0.13		0.019	0.045	ug/L	8081B
delta-BHC	0.029	J	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.076		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070120-SG-024	Lab ID: R2005701-004
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Toluene	0.26	BJ	0.20	5.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070120-SG-024	Lab ID: R2005701-004
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
---------	---------	------	-----	-----	-------	--------

CLIENT ID: WG-9954-070120-SG-028	Lab ID: R2005701-006
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,2,2-Tetrachloroethane	7.9		0.20	5.0	ug/L	8260C
1,1,2-Trichloroethane	14		0.20	5.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.27	J	0.20	5.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.78	J	0.20	5.0	ug/L	8260C
2-Butanone (MEK)	6.8	J	0.78	10	ug/L	8260C
2-Hexanone	2.1	J	0.20	10	ug/L	8260C
Acetone	71		5.0	10	ug/L	8260C
Benzene	1500	E	0.20	5.0	ug/L	8260C
Chlorobenzene	850	E	0.20	5.0	ug/L	8260C
Chloroform	140		0.24	5.0	ug/L	8260C
Dichloromethane	7.2		0.65	5.0	ug/L	8260C
Ethylbenzene	12		0.20	5.0	ug/L	8260C
Tetrachloroethene (PCE)	23		0.21	5.0	ug/L	8260C
Toluene	2000	E	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	130		0.20	5.0	ug/L	8260C
Vinyl Chloride	11		0.20	5.0	ug/L	8260C
Xylenes, Total	58		0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	28		0.23	5.0	ug/L	8260C
trans-1,2-Dichloroethene	35		0.20	5.0	ug/L	8260C
Benzene	6300	D	40	1000	ug/L	8260C
Chlorobenzene	2400	D	40	1000	ug/L	8260C
Chloroform	270	DJ	48	1000	ug/L	8260C
Toluene	21000	D	40	1000	ug/L	8260C
Trichloroethene (TCE)	120	DJ	40	1000	ug/L	8260C
trans-1,2-Dichloroethene	51	DJ	40	1000	ug/L	8260C
1,2,4-Trichlorobenzene	100		1.1	9.1	ug/L	8270D
1,2-Dichlorobenzene	34		1.1	9.1	ug/L	8270D
1,3-Dichlorobenzene	4.1	J	0.92	9.1	ug/L	8270D
1,4-Dichlorobenzene	97		1.1	9.1	ug/L	8270D
2,4,5-Trichlorophenol	26		0.99	9.1	ug/L	8270D
2,4-Dichlorophenol	520	E	1.2	9.1	ug/L	8270D
2,4-Dimethylphenol	6.9	J	1.3	9.1	ug/L	8270D
2-Chlorophenol	31		0.97	9.1	ug/L	8270D
2-Methylphenol	32		0.91	9.1	ug/L	8270D
3- and 4-Methylphenol Coelution	71		1.1	9.1	ug/L	8270D
4-Chloro-3-methylphenol	40		0.98	9.1	ug/L	8270D
Benzoic Acid	4100	E	33	91	ug/L	8270D
Benzyl Alcohol	290		1.5	9.1	ug/L	8270D
Bis(2-chloroethyl) Ether	24		1.2	9.1	ug/L	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070120-SG-028
Lab ID: R2005701-006

Analyte	Results	Flag	MDL	MRL	Units	Method
Hexachlorobutadiene	1.0	J	0.91	9.1	ug/L	8270D
Phenol	44		0.91	9.1	ug/L	8270D
1,2,4-Trichlorobenzene	76	J	26	230	ug/L	8270D
1,2-Dichlorobenzene	37	J	27	230	ug/L	8270D
1,4-Dichlorobenzene	100	J	26	230	ug/L	8270D
2,4,5-Trichlorophenol	34	J	25	230	ug/L	8270D
2,4-Dichlorophenol	350	D	29	230	ug/L	8270D
2-Chlorophenol	25	J	25	230	ug/L	8270D
2-Methylphenol	33	J	23	230	ug/L	8270D
3- and 4-Methylphenol Coelution	60	J	27	230	ug/L	8270D
4-Chloro-3-methylphenol	30	J	25	230	ug/L	8270D
Benzoic Acid	9200	E	820	2300	ug/L	8270D
Benzyl Alcohol	250		36	230	ug/L	8270D
Phenol	37	J	23	230	ug/L	8270D
1,2,4-Trichlorobenzene	72	J	51	450	ug/L	8270D
1,4-Dichlorobenzene	100	J	52	450	ug/L	8270D
2,4-Dichlorophenol	320	J	57	450	ug/L	8270D
3- and 4-Methylphenol Coelution	60	J	53	450	ug/L	8270D
Benzoic Acid	10000	D	1700	4500	ug/L	8270D
Benzyl Alcohol	220	J	71	450	ug/L	8270D
Aldrin	0.85		0.19	0.45	ug/L	8081B
alpha-BHC	25		0.19	0.45	ug/L	8081B
beta-BHC	6.9		0.19	0.45	ug/L	8081B
delta-BHC	8.7		0.19	0.45	ug/L	8081B
gamma-BHC (Lindane)	6.2		0.19	0.45	ug/L	8081B
alpha-BHC	18		0.19	0.45	ug/L	8081B
delta-BHC	6.3		0.19	0.45	ug/L	8081B
gamma-BHC (Lindane)	3.6		0.19	0.45	ug/L	8081B
gamma-Chlordane	1.5		0.19	0.45	ug/L	8081B
Aldrin	0.66		0.19	0.45	ug/L	8081B
Heptachlor	0.40	J	0.19	0.45	ug/L	8081B
beta-BHC	4.4		0.19	0.45	ug/L	8081B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005701

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005701-001	WG-9954-070120-SG-027	7/1/2020	1150
R2005701-002	WG-9954-070120-SG-026	7/1/2020	1045
R2005701-003	WG-9954-070120-SG-025	7/1/2020	0955
R2005701-004	WG-9954-070120-SG-024	7/1/2020	0845
R2005701-005	TB-9954-070120-SG-005	7/1/2020	0000
R2005701-006	WG-9954-070120-SG-028	7/1/2020	1150

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Kathy Willy
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: kathy.willy@ghd.com	Project Number: 9954

Lab Information
Laboratory: ALS
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623
ROCHESTER, NY 14623
Laboratory Contact: BRADY KALKMAN
Requested Due Date: TAT: 10
QA/QC Requirements:

Event Information
ID#: LC ANNUAL GW SAMPLING 2020-05-1
SSOW Ref#: 292-402-999-3100
Sampler Name: S GARDNER, D TYRAN

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment						Matrix Code	Date Collected	Time Collected	Pest(PCBs)(None)	SVOC(none)	VOA(HCI)	Remarks
WG-9954-070120-SG-027	WG	07/01/2020	11:50	2	2	3							
WG-9954-070120-SG-026	WG	07/01/2020	10:45	2	2	3							
WG-9954-070120-SG-025	WG	07/01/2020	09:55	2	2	3							
WG-9954-070120-SG-024	WG	07/01/2020	08:45	2	2	3							
TB-9954-070120-SG-005	WG Q	07/01/2020	00:00	-	-	3							
WG-9954-070120-SG-028	WG	07/01/2020	11:50	2	2	3							
Total Bottles				10	10	18	Grand Total:38						

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	1	Shawn Gardner	7/1/20	1400	Shawn Gardner	7/2/20	1050
AIRBILL#:							

R2005701
 GHD Services Inc.
 Love Canal: 292-402-002-3100

5





SR# _____

004, 005, 006, 007, 008, 009, 010,
011, 012, 013

T030477

Project Name: Love Canal:292-402-D02-3100	
Project Number: 9954 Annual Long Term Monitoring	Report To Kathy Willy
Company / Address GHD Services Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls NY, 14304	
Phone # 716-297-2160	FAX # 716-297-2265
Sampler Signature	Sampler Printed Name

NUMBER OF CONTAINERS	
0081B / Pest OC	7D
0082A / PCB	
0270D / SVO	
0260C / VOC FP	14D
1	
2	
3	
4	
5	

Remarks

[illegible]

Special Instructions/Comments:

Turnaround Requirements

RUSH (SURCHARGES APPLY)

Standard (3 weeks)

REQUESTED FAX DATE

Requested Report Date

Report Requirements

☐ I. Results Only

☐ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

☐ III. Results + QC and Calibration Summaries

☒ IV. Data Validation Report with Raw Data

EData Yes No

Invoice Information

P.O.# _____

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form

R2005701

5

GHD Services Inc.
Love Canal: 292-402-002-3100



Project/Client G4D Folder Number _____

Cooler received on 7/2/2020 by NE/ao

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u> N NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

3. Temperature Readings Date: 7/2/2020 Time: 1100 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.3</u>	<u>0.9</u>					
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: 2.402 by NE on 7/2/2020 at 1105
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 7/6/2020 Time: 0923 by: ao

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2538, 051120-18MC

Explain all Discrepancies/ Other Comments:

TB headspace: 5 of 6 vials

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ao
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter
Page 13 of 115



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005701

Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001.R01
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8260C
8270D

Extracted/Digested By

KSERCU

Analyzed By

KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001.R02
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8270D

Extracted/Digested By

KSERCU

Analyzed By

JMISIUREWICZ

Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005701

Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: TB-9954-070120-SG-005
Lab Code: R2005701-005
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8260C

Extracted/Digested By

Analyzed By

KRUEST

Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

BALLGEIER
BALLGEIER
KRUEST
JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005701

Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006.R01
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8081B
8260C
8270D

Extracted/Digested By

KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006.R02
Sample Matrix: Water

Date Collected: 07/1/20
Date Received: 07/2/20

Analysis Method

8270D

Extracted/Digested By

KSERCU

Analyzed By

JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/13/20 21:35	
1,1,2,2-Tetrachloroethane	6.1	5.0	0.20	1	07/13/20 21:35	
1,1,2-Trichloroethane	12	5.0	0.20	1	07/13/20 21:35	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/13/20 21:35	
1,1-Dichloroethene (1,1-DCE)	0.63 J	5.0	0.20	1	07/13/20 21:35	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/13/20 21:35	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/13/20 21:35	
2-Butanone (MEK)	12	10	0.78	1	07/13/20 21:35	
2-Hexanone	10 U	10	0.20	1	07/13/20 21:35	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/13/20 21:35	
Acetone	79	10	5.0	1	07/13/20 21:35	
Benzene	1300 E	5.0	0.20	1	07/13/20 21:35	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/13/20 21:35	
Bromoform	5.0 U	5.0	0.25	1	07/13/20 21:35	
Bromomethane	5.0 U	5.0	0.70	1	07/13/20 21:35	
Carbon Disulfide	10 U	10	0.42	1	07/13/20 21:35	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/13/20 21:35	
Chlorobenzene	770 E	5.0	0.20	1	07/13/20 21:35	
Chloroethane	5.0 U	5.0	0.23	1	07/13/20 21:35	
Chloroform	140	5.0	0.24	1	07/13/20 21:35	
Chloromethane	5.0 U	5.0	0.28	1	07/13/20 21:35	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/13/20 21:35	
Dichloromethane	6.4	5.0	0.65	1	07/13/20 21:35	
Ethylbenzene	12	5.0	0.20	1	07/13/20 21:35	
Styrene	5.0 U	5.0	0.20	1	07/13/20 21:35	
Tetrachloroethene (PCE)	20	5.0	0.21	1	07/13/20 21:35	
Toluene	1700 E	5.0	0.20	1	07/13/20 21:35	
Trichloroethene (TCE)	120	5.0	0.20	1	07/13/20 21:35	
Vinyl Acetate	10 U	10	1.1	1	07/13/20 21:35	
Vinyl Chloride	10	5.0	0.20	1	07/13/20 21:35	
Xylenes, Total	58	5.0	0.23	1	07/13/20 21:35	
cis-1,2-Dichloroethene	26	5.0	0.23	1	07/13/20 21:35	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/13/20 21:35	
trans-1,2-Dichloroethene	29	5.0	0.20	1	07/13/20 21:35	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/13/20 21:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	114	85 - 122	07/13/20 21:35	
Dibromofluoromethane	89	89 - 119	07/13/20 21:35	
Toluene-d8	99	87 - 121	07/13/20 21:35	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	1000	40	200	07/15/20 17:02	
1,1,2,2-Tetrachloroethane	1000 U	1000	40	200	07/15/20 17:02	
1,1,2-Trichloroethane	1000 U	1000	40	200	07/15/20 17:02	
1,1-Dichloroethane (1,1-DCA)	1000 U	1000	40	200	07/15/20 17:02	
1,1-Dichloroethene (1,1-DCE)	1000 U	1000	40	200	07/15/20 17:02	
1,2-Dichloroethane	1000 U	1000	40	200	07/15/20 17:02	
1,2-Dichloropropane	1000 U	1000	40	200	07/15/20 17:02	
2-Butanone (MEK)	2000 U	2000	160	200	07/15/20 17:02	
2-Hexanone	2000 U	2000	40	200	07/15/20 17:02	
4-Methyl-2-pentanone	2000 U	2000	40	200	07/15/20 17:02	
Acetone	2000 U	2000	1000	200	07/15/20 17:02	
Benzene	6500 D	1000	40	200	07/15/20 17:02	
Bromodichloromethane	60 DJ	1000	40	200	07/15/20 17:02	
Bromoform	1000 U	1000	50	200	07/15/20 17:02	
Bromomethane	1000 U	1000	140	200	07/15/20 17:02	
Carbon Disulfide	2000 U	2000	84	200	07/15/20 17:02	
Carbon Tetrachloride	1000 U	1000	68	200	07/15/20 17:02	
Chlorobenzene	2500 D	1000	40	200	07/15/20 17:02	
Chloroethane	1000 U	1000	46	200	07/15/20 17:02	
Chloroform	400 DJ	1000	48	200	07/15/20 17:02	
Chloromethane	1000 U	1000	56	200	07/15/20 17:02	
Dibromochloromethane	1000 U	1000	40	200	07/15/20 17:02	
Dichloromethane	1000 U	1000	130	200	07/15/20 17:02	
Ethylbenzene	1000 U	1000	40	200	07/15/20 17:02	
Styrene	1000 U	1000	40	200	07/15/20 17:02	
Tetrachloroethene (PCE)	1000 U	1000	42	200	07/15/20 17:02	
Toluene	22000 D	1000	40	200	07/15/20 17:02	
Trichloroethene (TCE)	100 DJ	1000	40	200	07/15/20 17:02	
Vinyl Acetate	2000 U	2000	220	200	07/15/20 17:02	
Vinyl Chloride	1000 U	1000	40	200	07/15/20 17:02	
Xylenes, Total	1000 U	1000	46	200	07/15/20 17:02	
cis-1,2-Dichloroethene	1000 U	1000	46	200	07/15/20 17:02	
cis-1,3-Dichloropropene	1000 U	1000	40	200	07/15/20 17:02	
trans-1,2-Dichloroethene	1000 U	1000	40	200	07/15/20 17:02	
trans-1,3-Dichloropropene	1000 U	1000	46	200	07/15/20 17:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	07/15/20 17:02	
Dibromofluoromethane	96	89 - 119	07/15/20 17:02	
Toluene-d8	100	87 - 121	07/15/20 17:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000095-49-8	Benzene, 1-chloro-2-methyl-	11.16	16362.0	JN
000108-41-8	Benzene, 1-chloro-3-methyl-	11.25	8134.0	JN
032768-54-0	Benzene, 1,2-dichloro-3-methyl-	12.89	1534.0	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 17:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 17:31	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 17:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 17:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 17:31	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 17:31	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 17:31	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 17:31	
2-Hexanone	10 U	10	0.20	1	07/14/20 17:31	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 17:31	
Acetone	10 U	10	5.0	1	07/14/20 17:31	
Benzene	5.0 U	5.0	0.20	1	07/14/20 17:31	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 17:31	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 17:31	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 17:31	
Carbon Disulfide	3.3 J	10	0.42	1	07/14/20 17:31	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 17:31	
Chlorobenzene	0.89 J	5.0	0.20	1	07/14/20 17:31	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 17:31	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 17:31	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 17:31	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 17:31	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 17:31	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 17:31	
Styrene	5.0 U	5.0	0.20	1	07/14/20 17:31	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 17:31	
Toluene	0.26 BJ	5.0	0.20	1	07/14/20 17:31	
Trichloroethene (TCE)	6.5	5.0	0.20	1	07/14/20 17:31	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 17:31	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 17:31	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 17:31	
cis-1,2-Dichloroethene	3.3 J	5.0	0.23	1	07/14/20 17:31	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 17:31	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 17:31	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 17:31	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/14/20 17:31	
Dibromofluoromethane	105	89 - 119	07/14/20 17:31	
Toluene-d8	102	87 - 121	07/14/20 17:31	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	46.1	JN
	unknown	1.63	20.0	J
000098-15-7	Benzene, 1-chloro-3-(trifluorometh	10.66	6.1	JN
000095-49-8	Benzene, 1-chloro-2-methyl-	11.16	8.1	JN
000120-82-1	Benzene, 1,2,4-trichloro-	13.43	12.7	JN
000066-25-1	Hexanal	9.25	6.7	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 17:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 17:53	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 17:53	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 17:53	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 17:53	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 17:53	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 17:53	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 17:53	
2-Hexanone	10 U	10	0.20	1	07/14/20 17:53	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 17:53	
Acetone	10 U	10	5.0	1	07/14/20 17:53	
Benzene	5.0 U	5.0	0.20	1	07/14/20 17:53	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 17:53	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 17:53	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 17:53	
Carbon Disulfide	10 U	10	0.42	1	07/14/20 17:53	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 17:53	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 17:53	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 17:53	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 17:53	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 17:53	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 17:53	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 17:53	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 17:53	
Styrene	5.0 U	5.0	0.20	1	07/14/20 17:53	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 17:53	
Toluene	0.27 BJ	5.0	0.20	1	07/14/20 17:53	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 17:53	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 17:53	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 17:53	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 17:53	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 17:53	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 17:53	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 17:53	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 17:53	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	07/14/20 17:53	
Dibromofluoromethane	100	89 - 119	07/14/20 17:53	
Toluene-d8	103	87 - 121	07/14/20 17:53	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	56.0	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 18:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 18:15	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 18:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 18:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 18:15	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 18:15	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 18:15	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 18:15	
2-Hexanone	10 U	10	0.20	1	07/14/20 18:15	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 18:15	
Acetone	10 U	10	5.0	1	07/14/20 18:15	
Benzene	5.0 U	5.0	0.20	1	07/14/20 18:15	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 18:15	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 18:15	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 18:15	
Carbon Disulfide	10 U	10	0.42	1	07/14/20 18:15	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 18:15	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 18:15	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 18:15	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 18:15	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 18:15	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 18:15	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 18:15	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 18:15	
Styrene	5.0 U	5.0	0.20	1	07/14/20 18:15	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 18:15	
Toluene	0.26 BJ	5.0	0.20	1	07/14/20 18:15	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 18:15	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 18:15	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 18:15	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 18:15	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 18:15	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 18:15	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 18:15	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 18:15	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	07/14/20 18:15	
Dibromofluoromethane	100	89 - 119	07/14/20 18:15	
Toluene-d8	102	87 - 121	07/14/20 18:15	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	66.0	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070120-SG-005
Lab Code: R2005701-005

Service Request: R2005701
Date Collected: 07/01/20 00:00
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/13/20 21:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/13/20 21:13	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/13/20 21:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/13/20 21:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/13/20 21:13	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/13/20 21:13	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/13/20 21:13	
2-Butanone (MEK)	10 U	10	0.78	1	07/13/20 21:13	
2-Hexanone	10 U	10	0.20	1	07/13/20 21:13	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/13/20 21:13	
Acetone	10 U	10	5.0	1	07/13/20 21:13	
Benzene	5.0 U	5.0	0.20	1	07/13/20 21:13	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/13/20 21:13	
Bromoform	5.0 U	5.0	0.25	1	07/13/20 21:13	
Bromomethane	5.0 U	5.0	0.70	1	07/13/20 21:13	
Carbon Disulfide	10 U	10	0.42	1	07/13/20 21:13	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/13/20 21:13	
Chlorobenzene	5.0 U	5.0	0.20	1	07/13/20 21:13	
Chloroethane	5.0 U	5.0	0.23	1	07/13/20 21:13	
Chloroform	5.0 U	5.0	0.24	1	07/13/20 21:13	
Chloromethane	5.0 U	5.0	0.28	1	07/13/20 21:13	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/13/20 21:13	
Dichloromethane	5.0 U	5.0	0.65	1	07/13/20 21:13	
Ethylbenzene	5.0 U	5.0	0.20	1	07/13/20 21:13	
Styrene	5.0 U	5.0	0.20	1	07/13/20 21:13	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/13/20 21:13	
Toluene	5.0 U	5.0	0.20	1	07/13/20 21:13	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/13/20 21:13	
Vinyl Acetate	10 U	10	1.1	1	07/13/20 21:13	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/13/20 21:13	
Xylenes, Total	5.0 U	5.0	0.23	1	07/13/20 21:13	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/13/20 21:13	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/13/20 21:13	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/13/20 21:13	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/13/20 21:13	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070120-SG-005
Lab Code: R2005701-005

Service Request: R2005701
Date Collected: 07/01/20 00:00
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	07/13/20 21:13	
Dibromofluoromethane	98	89 - 119	07/13/20 21:13	
Toluene-d8	100	87 - 121	07/13/20 21:13	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070120-SG-005
Lab Code: R2005701-005

Service Request: R2005701
Date Collected: 07/01/20 00:00
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/13/20 23:02	
1,1,2,2-Tetrachloroethane	7.9	5.0	0.20	1	07/13/20 23:02	
1,1,2-Trichloroethane	14	5.0	0.20	1	07/13/20 23:02	
1,1-Dichloroethane (1,1-DCA)	0.27 J	5.0	0.20	1	07/13/20 23:02	
1,1-Dichloroethene (1,1-DCE)	0.78 J	5.0	0.20	1	07/13/20 23:02	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/13/20 23:02	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/13/20 23:02	
2-Butanone (MEK)	6.8 J	10	0.78	1	07/13/20 23:02	
2-Hexanone	2.1 J	10	0.20	1	07/13/20 23:02	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/13/20 23:02	
Acetone	71	10	5.0	1	07/13/20 23:02	
Benzene	1500 E	5.0	0.20	1	07/13/20 23:02	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/13/20 23:02	
Bromoform	5.0 U	5.0	0.25	1	07/13/20 23:02	
Bromomethane	5.0 U	5.0	0.70	1	07/13/20 23:02	
Carbon Disulfide	10 U	10	0.42	1	07/13/20 23:02	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/13/20 23:02	
Chlorobenzene	850 E	5.0	0.20	1	07/13/20 23:02	
Chloroethane	5.0 U	5.0	0.23	1	07/13/20 23:02	
Chloroform	140	5.0	0.24	1	07/13/20 23:02	
Chloromethane	5.0 U	5.0	0.28	1	07/13/20 23:02	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/13/20 23:02	
Dichloromethane	7.2	5.0	0.65	1	07/13/20 23:02	
Ethylbenzene	12	5.0	0.20	1	07/13/20 23:02	
Styrene	5.0 U	5.0	0.20	1	07/13/20 23:02	
Tetrachloroethene (PCE)	23	5.0	0.21	1	07/13/20 23:02	
Toluene	2000 E	5.0	0.20	1	07/13/20 23:02	
Trichloroethene (TCE)	130	5.0	0.20	1	07/13/20 23:02	
Vinyl Acetate	10 U	10	1.1	1	07/13/20 23:02	
Vinyl Chloride	11	5.0	0.20	1	07/13/20 23:02	
Xylenes, Total	58	5.0	0.23	1	07/13/20 23:02	
cis-1,2-Dichloroethene	28	5.0	0.23	1	07/13/20 23:02	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/13/20 23:02	
trans-1,2-Dichloroethene	35	5.0	0.20	1	07/13/20 23:02	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/13/20 23:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85 - 122	07/13/20 23:02	
Dibromofluoromethane	99	89 - 119	07/13/20 23:02	
Toluene-d8	108	87 - 121	07/13/20 23:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	1000	40	200	07/15/20 14:51	
1,1,2,2-Tetrachloroethane	1000 U	1000	40	200	07/15/20 14:51	
1,1,2-Trichloroethane	1000 U	1000	40	200	07/15/20 14:51	
1,1-Dichloroethane (1,1-DCA)	1000 U	1000	40	200	07/15/20 14:51	
1,1-Dichloroethene (1,1-DCE)	1000 U	1000	40	200	07/15/20 14:51	
1,2-Dichloroethane	1000 U	1000	40	200	07/15/20 14:51	
1,2-Dichloropropane	1000 U	1000	40	200	07/15/20 14:51	
2-Butanone (MEK)	2000 U	2000	160	200	07/15/20 14:51	
2-Hexanone	2000 U	2000	40	200	07/15/20 14:51	
4-Methyl-2-pentanone	2000 U	2000	40	200	07/15/20 14:51	
Acetone	2000 U	2000	1000	200	07/15/20 14:51	
Benzene	6300 D	1000	40	200	07/15/20 14:51	
Bromodichloromethane	1000 U	1000	40	200	07/15/20 14:51	
Bromoform	1000 U	1000	50	200	07/15/20 14:51	
Bromomethane	1000 U	1000	140	200	07/15/20 14:51	
Carbon Disulfide	2000 U	2000	84	200	07/15/20 14:51	
Carbon Tetrachloride	1000 U	1000	68	200	07/15/20 14:51	
Chlorobenzene	2400 D	1000	40	200	07/15/20 14:51	
Chloroethane	1000 U	1000	46	200	07/15/20 14:51	
Chloroform	270 DJ	1000	48	200	07/15/20 14:51	
Chloromethane	1000 U	1000	56	200	07/15/20 14:51	
Dibromochloromethane	1000 U	1000	40	200	07/15/20 14:51	
Dichloromethane	1000 U	1000	130	200	07/15/20 14:51	
Ethylbenzene	1000 U	1000	40	200	07/15/20 14:51	
Styrene	1000 U	1000	40	200	07/15/20 14:51	
Tetrachloroethene (PCE)	1000 U	1000	42	200	07/15/20 14:51	
Toluene	21000 D	1000	40	200	07/15/20 14:51	
Trichloroethene (TCE)	120 DJ	1000	40	200	07/15/20 14:51	
Vinyl Acetate	2000 U	2000	220	200	07/15/20 14:51	
Vinyl Chloride	1000 U	1000	40	200	07/15/20 14:51	
Xylenes, Total	1000 U	1000	46	200	07/15/20 14:51	
cis-1,2-Dichloroethene	1000 U	1000	46	200	07/15/20 14:51	
cis-1,3-Dichloropropene	1000 U	1000	40	200	07/15/20 14:51	
trans-1,2-Dichloroethene	51 DJ	1000	40	200	07/15/20 14:51	
trans-1,3-Dichloropropene	1000 U	1000	46	200	07/15/20 14:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	07/15/20 14:51	
Dibromofluoromethane	96	89 - 119	07/15/20 14:51	
Toluene-d8	101	87 - 121	07/15/20 14:51	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000095-49-8	Benzene, 1-chloro-2-methyl-	11.16	16222.0	JN
000108-41-8	Benzene, 1-chloro-3-methyl-	11.25	7998.0	JN
032768-54-0	Benzene, 1,2-dichloro-3-methyl-	12.89	1562.0	JN



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	93	9.1	1.1	1	07/09/20 12:04	7/7/20	
1,2-Dichlorobenzene	25	9.1	1.1	1	07/09/20 12:04	7/7/20	
1,3-Dichlorobenzene	3.6 J	9.1	0.92	1	07/09/20 12:04	7/7/20	
1,4-Dichlorobenzene	73	9.1	1.1	1	07/09/20 12:04	7/7/20	
2,4,5-Trichlorophenol	37	9.1	0.99	1	07/09/20 12:04	7/7/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
2,4-Dichlorophenol	550 E	9.1	1.2	1	07/09/20 12:04	7/7/20	
2,4-Dimethylphenol	8.9 J	9.1	1.3	1	07/09/20 12:04	7/7/20	
2,4-Dinitrophenol	45 U	45	19	1	07/09/20 12:04	7/7/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/09/20 12:04	7/7/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/09/20 12:04	7/7/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
2-Chlorophenol	27	9.1	0.97	1	07/09/20 12:04	7/7/20	
2-Methylnaphthalene	1.4 J	9.1	1.2	1	07/09/20 12:04	7/7/20	
2-Methylphenol	32	9.1	0.91	1	07/09/20 12:04	7/7/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/09/20 12:04	7/7/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	
3- and 4-Methylphenol Coelution	71	9.1	1.1	1	07/09/20 12:04	7/7/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/09/20 12:04	7/7/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/09/20 12:04	7/7/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/09/20 12:04	7/7/20	
4-Chloro-3-methylphenol	46	9.1	0.98	1	07/09/20 12:04	7/7/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/09/20 12:04	7/7/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/09/20 12:04	7/7/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/09/20 12:04	7/7/20	
4-Nitrophenol	45 U	45	5.8	1	07/09/20 12:04	7/7/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
Anthracene	9.1 U	9.1	1.2	1	07/09/20 12:04	7/7/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/09/20 12:04	7/7/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/09/20 12:04	7/7/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	
Benzoic Acid	4500 E	91	33	1	07/09/20 12:04	7/7/20	
Benzyl Alcohol	290	9.1	1.5	1	07/09/20 12:04	7/7/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/09/20 12:04	7/7/20	
Bis(2-chloroethyl) Ether	20	9.1	1.2	1	07/09/20 12:04	7/7/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/09/20 12:04	7/7/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
Chrysene	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/09/20 12:04	7/7/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/09/20 12:04	7/7/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/09/20 12:04	7/7/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/09/20 12:04	7/7/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/09/20 12:04	7/7/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/09/20 12:04	7/7/20	
Fluorene	9.1 U	9.1	1.2	1	07/09/20 12:04	7/7/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/09/20 12:04	7/7/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/09/20 12:04	7/7/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/09/20 12:04	7/7/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/09/20 12:04	7/7/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/09/20 12:04	7/7/20	
Isophorone	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/09/20 12:04	7/7/20	
Naphthalene	9.1 U	9.1	1.1	1	07/09/20 12:04	7/7/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/09/20 12:04	7/7/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/09/20 12:04	7/7/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	
Phenol	40	9.1	0.91	1	07/09/20 12:04	7/7/20	
Pyrene	9.1 U	9.1	1.3	1	07/09/20 12:04	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	07/09/20 12:04	
2-Fluorobiphenyl	59	31 - 118	07/09/20 12:04	
2-Fluorophenol	29	10 - 105	07/09/20 12:04	
Nitrobenzene-d5	86	31 - 110	07/09/20 12:04	
Phenol-d6	24	10 - 107	07/09/20 12:04	
p-Terphenyl-d14	51	10 - 165	07/09/20 12:04	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-95-0	Benzoic acid, 4-benzoyl-	10.20	780	JN
000579-18-0	3-Benzoylbenzoic acid	10.22	290	JN
	unknown	10.27	77	J
000123-91-1	1,4-Dioxane	2.19	140	JN
000108-88-3	Toluene	2.69	1800	JN
000107-92-6	Butanoic acid	2.91	110	JN
000108-90-7	Benzene, chloro-	3.32	350	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000108-93-0	Cyclohexanol	3.63	120	JN
	unknown	3.70	42	J
000591-23-1	Cyclohexanol, 3-methyl-	4.09	38	JN
000095-49-8	Benzene, 1-chloro-2-methyl-	4.14	1800	JN
000106-43-4	Benzene, 1-chloro-4-methyl-	4.18	1000	JN
001195-79-5	Bicyclo[2.2.1]heptan-2-one, 1,3,3-	5.14	32	JN
000106-48-9	Parachlorophenol	5.75	150	JN
000074-11-3	Benzoic acid, 4-chloro-	6.68	1500	JN
000535-80-8	Benzoic acid, 3-chloro-	6.90	9900	JN
	unknown	6.93	360	J
000591-35-5	Phenol, 3,5-dichloro-	7.00	370	JN
	unknown	7.12	73	J
000050-45-3	Benzoic acid, 2,3-dichloro-	7.60	28	JN
000134-84-9	Methanone, (4-methylphenyl)phenyl-	8.73	31	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	59 J	230	26	25	07/13/20 14:46	7/7/20	
1,2-Dichlorobenzene	230 U	230	27	25	07/13/20 14:46	7/7/20	
1,3-Dichlorobenzene	230 U	230	23	25	07/13/20 14:46	7/7/20	
1,4-Dichlorobenzene	72 J	230	26	25	07/13/20 14:46	7/7/20	
2,4,5-Trichlorophenol	50 J	230	25	25	07/13/20 14:46	7/7/20	
2,4,6-Trichlorophenol	230 U	230	31	25	07/13/20 14:46	7/7/20	
2,4-Dichlorophenol	330 D	230	29	25	07/13/20 14:46	7/7/20	
2,4-Dimethylphenol	230 U	230	32	25	07/13/20 14:46	7/7/20	
2,4-Dinitrophenol	1100 U	1100	460	25	07/13/20 14:46	7/7/20	
2,4-Dinitrotoluene	230 U	230	54	25	07/13/20 14:46	7/7/20	
2,6-Dinitrotoluene	230 U	230	30	25	07/13/20 14:46	7/7/20	
2-Chloronaphthalene	230 U	230	31	25	07/13/20 14:46	7/7/20	
2-Chlorophenol	230 U	230	25	25	07/13/20 14:46	7/7/20	
2-Methylnaphthalene	230 U	230	30	25	07/13/20 14:46	7/7/20	
2-Methylphenol	32 J	230	23	25	07/13/20 14:46	7/7/20	
2-Nitroaniline	230 U	230	31	25	07/13/20 14:46	7/7/20	
2-Nitrophenol	230 U	230	34	25	07/13/20 14:46	7/7/20	
3,3'-Dichlorobenzidine	230 U	230	28	25	07/13/20 14:46	7/7/20	
3- and 4-Methylphenol Coelution	60 J	230	27	25	07/13/20 14:46	7/7/20	
3-Nitroaniline	230 U	230	56	25	07/13/20 14:46	7/7/20	
4,6-Dinitro-2-methylphenol	1100 U	1100	440	25	07/13/20 14:46	7/7/20	
4-Bromophenyl Phenyl Ether	230 U	230	38	25	07/13/20 14:46	7/7/20	
4-Chloro-3-methylphenol	31 J	230	25	25	07/13/20 14:46	7/7/20	
4-Chloroaniline	230 U	230	23	25	07/13/20 14:46	7/7/20	
4-Chlorophenyl Phenyl Ether	230 U	230	34	25	07/13/20 14:46	7/7/20	
4-Nitroaniline	230 U	230	62	25	07/13/20 14:46	7/7/20	
4-Nitrophenol	1100 U	1100	150	25	07/13/20 14:46	7/7/20	
Acenaphthene	230 U	230	31	25	07/13/20 14:46	7/7/20	
Acenaphthylene	230 U	230	31	25	07/13/20 14:46	7/7/20	
Anthracene	230 U	230	29	25	07/13/20 14:46	7/7/20	
Benz(a)anthracene	230 U	230	36	25	07/13/20 14:46	7/7/20	
Benzo(a)pyrene	230 U	230	26	25	07/13/20 14:46	7/7/20	
Benzo(b)fluoranthene	230 U	230	26	25	07/13/20 14:46	7/7/20	
Benzo(g,h,i)perylene	230 U	230	23	25	07/13/20 14:46	7/7/20	
Benzo(k)fluoranthene	230 U	230	28	25	07/13/20 14:46	7/7/20	
Benzoic Acid	9200 E	2300	820	25	07/13/20 14:46	7/7/20	
Benzyl Alcohol	240	230	36	25	07/13/20 14:46	7/7/20	
2,2'-Oxybis(1-chloropropane)	230 U	230	32	25	07/13/20 14:46	7/7/20	
Bis(2-chloroethoxy)methane	230 U	230	44	25	07/13/20 14:46	7/7/20	
Bis(2-chloroethyl) Ether	230 U	230	28	25	07/13/20 14:46	7/7/20	
Bis(2-ethylhexyl) Phthalate	230 U	230	23	25	07/13/20 14:46	7/7/20	
Butyl Benzyl Phthalate	230 U	230	32	25	07/13/20 14:46	7/7/20	
Chrysene	230 U	230	27	25	07/13/20 14:46	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	230 U	230	46	25	07/13/20 14:46	7/7/20	
Di-n-octyl Phthalate	230 U	230	74	25	07/13/20 14:46	7/7/20	
Dibenz(a,h)anthracene	230 U	230	24	25	07/13/20 14:46	7/7/20	
Dibenzofuran	230 U	230	31	25	07/13/20 14:46	7/7/20	
Diethyl Phthalate	230 U	230	25	25	07/13/20 14:46	7/7/20	
Dimethyl Phthalate	230 U	230	28	25	07/13/20 14:46	7/7/20	
Fluoranthene	230 U	230	34	25	07/13/20 14:46	7/7/20	
Fluorene	230 U	230	28	25	07/13/20 14:46	7/7/20	
Hexachlorobenzene	230 U	230	35	25	07/13/20 14:46	7/7/20	
Hexachlorobutadiene	230 U	230	23	25	07/13/20 14:46	7/7/20	
Hexachlorocyclopentadiene	230 U	230	49	25	07/13/20 14:46	7/7/20	
Hexachloroethane	230 U	230	24	25	07/13/20 14:46	7/7/20	
Indeno(1,2,3-cd)pyrene	230 U	230	40	25	07/13/20 14:46	7/7/20	
Isophorone	230 U	230	31	25	07/13/20 14:46	7/7/20	
N-Nitrosodi-n-propylamine	230 U	230	26	25	07/13/20 14:46	7/7/20	
N-Nitrosodiphenylamine	230 U	230	60	25	07/13/20 14:46	7/7/20	
Naphthalene	230 U	230	27	25	07/13/20 14:46	7/7/20	
Nitrobenzene	230 U	230	34	25	07/13/20 14:46	7/7/20	
Pentachlorophenol (PCP)	1100 U	1100	230	25	07/13/20 14:46	7/7/20	
Phenanthrene	230 U	230	31	25	07/13/20 14:46	7/7/20	
Phenol	32 J	230	23	25	07/13/20 14:46	7/7/20	
Pyrene	230 U	230	33	25	07/13/20 14:46	7/7/20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	07/13/20 14:46	D
2-Fluorobiphenyl	0 *	31 - 118	07/13/20 14:46	D
2-Fluorophenol	0 *	10 - 105	07/13/20 14:46	D
Nitrobenzene-d5	0 *	31 - 110	07/13/20 14:46	D
Phenol-d6	0 *	10 - 107	07/13/20 14:46	D
p-Terphenyl-d14	0 *	10 - 165	07/13/20 14:46	D

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	67 J	450	51	50	07/13/20 15:42	7/7/20	
1,2-Dichlorobenzene	450 U	450	54	50	07/13/20 15:42	7/7/20	
1,3-Dichlorobenzene	450 U	450	46	50	07/13/20 15:42	7/7/20	
1,4-Dichlorobenzene	73 J	450	52	50	07/13/20 15:42	7/7/20	
2,4,5-Trichlorophenol	450 U	450	50	50	07/13/20 15:42	7/7/20	
2,4,6-Trichlorophenol	450 U	450	62	50	07/13/20 15:42	7/7/20	
2,4-Dichlorophenol	340 J	450	57	50	07/13/20 15:42	7/7/20	
2,4-Dimethylphenol	450 U	450	63	50	07/13/20 15:42	7/7/20	
2,4-Dinitrophenol	2300 U	2300	910	50	07/13/20 15:42	7/7/20	
2,4-Dinitrotoluene	450 U	450	110	50	07/13/20 15:42	7/7/20	
2,6-Dinitrotoluene	450 U	450	60	50	07/13/20 15:42	7/7/20	
2-Chloronaphthalene	450 U	450	62	50	07/13/20 15:42	7/7/20	
2-Chlorophenol	450 U	450	49	50	07/13/20 15:42	7/7/20	
2-Methylnaphthalene	450 U	450	59	50	07/13/20 15:42	7/7/20	
2-Methylphenol	450 U	450	46	50	07/13/20 15:42	7/7/20	
2-Nitroaniline	450 U	450	62	50	07/13/20 15:42	7/7/20	
2-Nitrophenol	450 U	450	68	50	07/13/20 15:42	7/7/20	
3,3'-Dichlorobenzidine	450 U	450	55	50	07/13/20 15:42	7/7/20	
3- and 4-Methylphenol Coelution	61 J	450	53	50	07/13/20 15:42	7/7/20	
3-Nitroaniline	450 U	450	120	50	07/13/20 15:42	7/7/20	
4,6-Dinitro-2-methylphenol	2300 U	2300	870	50	07/13/20 15:42	7/7/20	
4-Bromophenyl Phenyl Ether	450 U	450	75	50	07/13/20 15:42	7/7/20	
4-Chloro-3-methylphenol	450 U	450	49	50	07/13/20 15:42	7/7/20	
4-Chloroaniline	450 U	450	46	50	07/13/20 15:42	7/7/20	
4-Chlorophenyl Phenyl Ether	450 U	450	68	50	07/13/20 15:42	7/7/20	
4-Nitroaniline	450 U	450	130	50	07/13/20 15:42	7/7/20	
4-Nitrophenol	2300 U	2300	290	50	07/13/20 15:42	7/7/20	
Acenaphthene	450 U	450	61	50	07/13/20 15:42	7/7/20	
Acenaphthylene	450 U	450	61	50	07/13/20 15:42	7/7/20	
Anthracene	450 U	450	57	50	07/13/20 15:42	7/7/20	
Benz(a)anthracene	450 U	450	72	50	07/13/20 15:42	7/7/20	
Benzo(a)pyrene	450 U	450	51	50	07/13/20 15:42	7/7/20	
Benzo(b)fluoranthene	450 U	450	51	50	07/13/20 15:42	7/7/20	
Benzo(g,h,i)perylene	450 U	450	46	50	07/13/20 15:42	7/7/20	
Benzo(k)fluoranthene	450 U	450	55	50	07/13/20 15:42	7/7/20	
Benzoic Acid	11000 D	4500	1700	50	07/13/20 15:42	7/7/20	
Benzyl Alcohol	220 J	450	71	50	07/13/20 15:42	7/7/20	
2,2'-Oxybis(1-chloropropane)	450 U	450	64	50	07/13/20 15:42	7/7/20	
Bis(2-chloroethoxy)methane	450 U	450	87	50	07/13/20 15:42	7/7/20	
Bis(2-chloroethyl) Ether	450 U	450	56	50	07/13/20 15:42	7/7/20	
Bis(2-ethylhexyl) Phthalate	450 U	450	46	50	07/13/20 15:42	7/7/20	
Butyl Benzyl Phthalate	450 U	450	64	50	07/13/20 15:42	7/7/20	
Chrysene	450 U	450	53	50	07/13/20 15:42	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	450 U	450	91	50	07/13/20 15:42	7/7/20	
Di-n-octyl Phthalate	450 U	450	150	50	07/13/20 15:42	7/7/20	
Dibenz(a,h)anthracene	450 U	450	47	50	07/13/20 15:42	7/7/20	
Dibenzofuran	450 U	450	62	50	07/13/20 15:42	7/7/20	
Diethyl Phthalate	450 U	450	49	50	07/13/20 15:42	7/7/20	
Dimethyl Phthalate	450 U	450	56	50	07/13/20 15:42	7/7/20	
Fluoranthene	450 U	450	67	50	07/13/20 15:42	7/7/20	
Fluorene	450 U	450	56	50	07/13/20 15:42	7/7/20	
Hexachlorobenzene	450 U	450	70	50	07/13/20 15:42	7/7/20	
Hexachlorobutadiene	450 U	450	46	50	07/13/20 15:42	7/7/20	
Hexachlorocyclopentadiene	450 U	450	98	50	07/13/20 15:42	7/7/20	
Hexachloroethane	450 U	450	48	50	07/13/20 15:42	7/7/20	
Indeno(1,2,3-cd)pyrene	450 U	450	80	50	07/13/20 15:42	7/7/20	
Isophorone	450 U	450	62	50	07/13/20 15:42	7/7/20	
N-Nitrosodi-n-propylamine	450 U	450	52	50	07/13/20 15:42	7/7/20	
N-Nitrosodiphenylamine	450 U	450	120	50	07/13/20 15:42	7/7/20	
Naphthalene	450 U	450	54	50	07/13/20 15:42	7/7/20	
Nitrobenzene	450 U	450	67	50	07/13/20 15:42	7/7/20	
Pentachlorophenol (PCP)	2300 U	2300	450	50	07/13/20 15:42	7/7/20	
Phenanthrene	450 U	450	61	50	07/13/20 15:42	7/7/20	
Phenol	450 U	450	46	50	07/13/20 15:42	7/7/20	
Pyrene	450 U	450	65	50	07/13/20 15:42	7/7/20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	07/13/20 15:42	D
2-Fluorobiphenyl	0 *	31 - 118	07/13/20 15:42	D
2-Fluorophenol	0 *	10 - 105	07/13/20 15:42	D
Nitrobenzene-d5	0 *	31 - 110	07/13/20 15:42	D
Phenol-d6	0 *	10 - 107	07/13/20 15:42	D
p-Terphenyl-d14	0 *	10 - 165	07/13/20 15:42	D

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	7.7 J	9.1	1.1	1	07/09/20 13:32	7/7/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/09/20 13:32	7/7/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/09/20 13:32	7/7/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
2,4-Dinitrophenol	45 U	45	19	1	07/09/20 13:32	7/7/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/09/20 13:32	7/7/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/09/20 13:32	7/7/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/09/20 13:32	7/7/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/09/20 13:32	7/7/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/09/20 13:32	7/7/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/09/20 13:32	7/7/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/09/20 13:32	7/7/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/09/20 13:32	7/7/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/09/20 13:32	7/7/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/09/20 13:32	7/7/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/09/20 13:32	7/7/20	
4-Nitrophenol	45 U	45	5.8	1	07/09/20 13:32	7/7/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
Anthracene	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/09/20 13:32	7/7/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/09/20 13:32	7/7/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
Benzoic Acid	91 U	91	33	1	07/09/20 13:32	7/7/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/09/20 13:32	7/7/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/09/20 13:32	7/7/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/09/20 13:32	7/7/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
Chrysene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/09/20 13:32	7/7/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/09/20 13:32	7/7/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/09/20 13:32	7/7/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/09/20 13:32	7/7/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/09/20 13:32	7/7/20	
Fluorene	9.1 U	9.1	1.2	1	07/09/20 13:32	7/7/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/09/20 13:32	7/7/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/09/20 13:32	7/7/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/09/20 13:32	7/7/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/09/20 13:32	7/7/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/09/20 13:32	7/7/20	
Isophorone	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/09/20 13:32	7/7/20	
Naphthalene	9.1 U	9.1	1.1	1	07/09/20 13:32	7/7/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/09/20 13:32	7/7/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/09/20 13:32	7/7/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	
Phenol	9.1 U	9.1	0.91	1	07/09/20 13:32	7/7/20	
Pyrene	9.1 U	9.1	1.3	1	07/09/20 13:32	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	111	35 - 141	07/09/20 13:32	
2-Fluorobiphenyl	75	31 - 118	07/09/20 13:32	
2-Fluorophenol	45	10 - 105	07/09/20 13:32	
Nitrobenzene-d5	70	31 - 110	07/09/20 13:32	
Phenol-d6	33	10 - 107	07/09/20 13:32	
p-Terphenyl-d14	47	10 - 165	07/09/20 13:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	13.12	5.4	J
	unknown hydrocarbon	14.57	4.9	J
	unknown hydrocarbon	16.11	4.8	J
000095-49-8	Benzene, 1-chloro-2-methyl-	4.13	7.9	JN
000143-07-7	Dodecanoic acid	7.67	6.1	JN
013798-23-7	Sulfur	7.78	14	JN
	unknown	9.45	11	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/09/20 14:02	7/7/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/09/20 14:02	7/7/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
2,4-Dinitrophenol	45 U	45	19	1	07/09/20 14:02	7/7/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/09/20 14:02	7/7/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/09/20 14:02	7/7/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/09/20 14:02	7/7/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/09/20 14:02	7/7/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/09/20 14:02	7/7/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/09/20 14:02	7/7/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/09/20 14:02	7/7/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/09/20 14:02	7/7/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/09/20 14:02	7/7/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/09/20 14:02	7/7/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/09/20 14:02	7/7/20	
4-Nitrophenol	45 U	45	5.8	1	07/09/20 14:02	7/7/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
Anthracene	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/09/20 14:02	7/7/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/09/20 14:02	7/7/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
Benzoic Acid	91 U	91	33	1	07/09/20 14:02	7/7/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/09/20 14:02	7/7/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/09/20 14:02	7/7/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/09/20 14:02	7/7/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
Chrysene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/09/20 14:02	7/7/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/09/20 14:02	7/7/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/09/20 14:02	7/7/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/09/20 14:02	7/7/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/09/20 14:02	7/7/20	
Fluorene	9.1 U	9.1	1.2	1	07/09/20 14:02	7/7/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/09/20 14:02	7/7/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/09/20 14:02	7/7/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/09/20 14:02	7/7/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/09/20 14:02	7/7/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/09/20 14:02	7/7/20	
Isophorone	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/09/20 14:02	7/7/20	
Naphthalene	9.1 U	9.1	1.1	1	07/09/20 14:02	7/7/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/09/20 14:02	7/7/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/09/20 14:02	7/7/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	
Phenol	9.1 U	9.1	0.91	1	07/09/20 14:02	7/7/20	
Pyrene	9.1 U	9.1	1.3	1	07/09/20 14:02	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	35 - 141	07/09/20 14:02	
2-Fluorobiphenyl	63	31 - 118	07/09/20 14:02	
2-Fluorophenol	40	10 - 105	07/09/20 14:02	
Nitrobenzene-d5	62	31 - 110	07/09/20 14:02	
Phenol-d6	25	10 - 107	07/09/20 14:02	
p-Terphenyl-d14	51	10 - 165	07/09/20 14:02	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000095-49-8	Benzene, 1-chloro-2-methyl-	4.13	7.6	JN
000108-41-8	Benzene, 1-chloro-3-methyl-	4.18	3.8	JN
013798-23-7	Sulfur	7.79	4.8	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/09/20 14:33	7/7/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/09/20 14:33	7/7/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
2,4-Dinitrophenol	45 U	45	19	1	07/09/20 14:33	7/7/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/09/20 14:33	7/7/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/09/20 14:33	7/7/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/09/20 14:33	7/7/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/09/20 14:33	7/7/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/09/20 14:33	7/7/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/09/20 14:33	7/7/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/09/20 14:33	7/7/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/09/20 14:33	7/7/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/09/20 14:33	7/7/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/09/20 14:33	7/7/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/09/20 14:33	7/7/20	
4-Nitrophenol	45 U	45	5.8	1	07/09/20 14:33	7/7/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
Anthracene	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/09/20 14:33	7/7/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/09/20 14:33	7/7/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
Benzoic Acid	91 U	91	33	1	07/09/20 14:33	7/7/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/09/20 14:33	7/7/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/09/20 14:33	7/7/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/09/20 14:33	7/7/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
Chrysene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/09/20 14:33	7/7/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/09/20 14:33	7/7/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/09/20 14:33	7/7/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/09/20 14:33	7/7/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/09/20 14:33	7/7/20	
Fluorene	9.1 U	9.1	1.2	1	07/09/20 14:33	7/7/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/09/20 14:33	7/7/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/09/20 14:33	7/7/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/09/20 14:33	7/7/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/09/20 14:33	7/7/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/09/20 14:33	7/7/20	
Isophorone	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/09/20 14:33	7/7/20	
Naphthalene	9.1 U	9.1	1.1	1	07/09/20 14:33	7/7/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/09/20 14:33	7/7/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/09/20 14:33	7/7/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	
Phenol	9.1 U	9.1	0.91	1	07/09/20 14:33	7/7/20	
Pyrene	9.1 U	9.1	1.3	1	07/09/20 14:33	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	07/09/20 14:33	
2-Fluorobiphenyl	59	31 - 118	07/09/20 14:33	
2-Fluorophenol	35	10 - 105	07/09/20 14:33	
Nitrobenzene-d5	56	31 - 110	07/09/20 14:33	
Phenol-d6	26	10 - 107	07/09/20 14:33	
p-Terphenyl-d14	65	10 - 165	07/09/20 14:33	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	11.35	5.7	J
	unknown hydrocarbon	11.89	8.4	J
	unknown	12.48	11	J
	unknown hydrocarbon	13.13	11	J
	unknown hydrocarbon	13.83	10	J
	unknown hydrocarbon	14.58	8.2	J
1000309-12-4	Sulfurous acid, 2-propyl tridecyl	15.37	7.0	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	16.11	5.8	J
	unknown	4.13	5.1	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	100	9.1	1.1	1	07/09/20 15:04	7/7/20	
1,2-Dichlorobenzene	34	9.1	1.1	1	07/09/20 15:04	7/7/20	
1,3-Dichlorobenzene	4.1 J	9.1	0.92	1	07/09/20 15:04	7/7/20	
1,4-Dichlorobenzene	97	9.1	1.1	1	07/09/20 15:04	7/7/20	
2,4,5-Trichlorophenol	26	9.1	0.99	1	07/09/20 15:04	7/7/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
2,4-Dichlorophenol	520 E	9.1	1.2	1	07/09/20 15:04	7/7/20	
2,4-Dimethylphenol	6.9 J	9.1	1.3	1	07/09/20 15:04	7/7/20	
2,4-Dinitrophenol	45 U	45	19	1	07/09/20 15:04	7/7/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/09/20 15:04	7/7/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/09/20 15:04	7/7/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
2-Chlorophenol	31	9.1	0.97	1	07/09/20 15:04	7/7/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/09/20 15:04	7/7/20	
2-Methylphenol	32	9.1	0.91	1	07/09/20 15:04	7/7/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/09/20 15:04	7/7/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	
3- and 4-Methylphenol Coelution	71	9.1	1.1	1	07/09/20 15:04	7/7/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/09/20 15:04	7/7/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/09/20 15:04	7/7/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/09/20 15:04	7/7/20	
4-Chloro-3-methylphenol	40	9.1	0.98	1	07/09/20 15:04	7/7/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/09/20 15:04	7/7/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/09/20 15:04	7/7/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/09/20 15:04	7/7/20	
4-Nitrophenol	45 U	45	5.8	1	07/09/20 15:04	7/7/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
Anthracene	9.1 U	9.1	1.2	1	07/09/20 15:04	7/7/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/09/20 15:04	7/7/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/09/20 15:04	7/7/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	
Benzoic Acid	4100 E	91	33	1	07/09/20 15:04	7/7/20	
Benzyl Alcohol	290	9.1	1.5	1	07/09/20 15:04	7/7/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/09/20 15:04	7/7/20	
Bis(2-chloroethyl) Ether	24	9.1	1.2	1	07/09/20 15:04	7/7/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/09/20 15:04	7/7/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
Chrysene	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/09/20 15:04	7/7/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/09/20 15:04	7/7/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/09/20 15:04	7/7/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/09/20 15:04	7/7/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/09/20 15:04	7/7/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/09/20 15:04	7/7/20	
Fluorene	9.1 U	9.1	1.2	1	07/09/20 15:04	7/7/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/09/20 15:04	7/7/20	
Hexachlorobutadiene	1.0 J	9.1	0.91	1	07/09/20 15:04	7/7/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/09/20 15:04	7/7/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/09/20 15:04	7/7/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/09/20 15:04	7/7/20	
Isophorone	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/09/20 15:04	7/7/20	
Naphthalene	9.1 U	9.1	1.1	1	07/09/20 15:04	7/7/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/09/20 15:04	7/7/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/09/20 15:04	7/7/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	
Phenol	44	9.1	0.91	1	07/09/20 15:04	7/7/20	
Pyrene	9.1 U	9.1	1.3	1	07/09/20 15:04	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	66	35 - 141	07/09/20 15:04	
2-Fluorobiphenyl	57	31 - 118	07/09/20 15:04	
2-Fluorophenol	32	10 - 105	07/09/20 15:04	
Nitrobenzene-d5	95	31 - 110	07/09/20 15:04	
Phenol-d6	27	10 - 107	07/09/20 15:04	
p-Terphenyl-d14	46	10 - 165	07/09/20 15:04	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-95-0	Benzoic acid, 4-benzoyl-	10.19	630	JN
000579-18-0	3-Benzoylbenzoic acid	10.22	170	JN
000123-91-1	1,4-Dioxane	2.19	140	JN
000107-92-6	Butanoic acid	2.92	100	JN
000108-90-7	Benzene, chloro-	3.32	400	JN
000108-93-0	Cyclohexanol	3.64	130	JN
	unknown	3.70	38	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007443-52-9	Cyclohexanol, 2-methyl-, trans-	4.05	18	JN
000591-23-1	Cyclohexanol, 3-methyl-	4.09	29	JN
000095-49-8	Benzene, 1-chloro-2-methyl-	4.14	2000	JN
000106-43-4	Benzene, 1-chloro-4-methyl-	4.19	1200	JN
001195-79-5	Bicyclo[2.2.1]heptan-2-one, 1,3,3-	5.15	32	JN
000106-48-9	Parachlorophenol	5.75	150	JN
000535-80-8	Benzoic acid, 3-chloro-	6.62	180	JN
000074-11-3	Benzoic acid, 4-chloro-	6.89	6200	JN
000095-77-2	Phenol, 3,4-dichloro-unknown	7.01	260	JN
		7.12	63	J
000050-79-3	Benzoic acid, 2,5-dichloro-	7.60	30	JN
000713-36-0	Benzene, 1-methyl-2-(phenylmethyl)	7.64	17	JN
000134-84-9	Methanone, (4-methylphenyl)phenyl-	8.73	27	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	76 J	230	26	25	07/13/20 15:14	7/7/20	
1,2-Dichlorobenzene	37 J	230	27	25	07/13/20 15:14	7/7/20	
1,3-Dichlorobenzene	230 U	230	23	25	07/13/20 15:14	7/7/20	
1,4-Dichlorobenzene	100 J	230	26	25	07/13/20 15:14	7/7/20	
2,4,5-Trichlorophenol	34 J	230	25	25	07/13/20 15:14	7/7/20	
2,4,6-Trichlorophenol	230 U	230	31	25	07/13/20 15:14	7/7/20	
2,4-Dichlorophenol	350 D	230	29	25	07/13/20 15:14	7/7/20	
2,4-Dimethylphenol	230 U	230	32	25	07/13/20 15:14	7/7/20	
2,4-Dinitrophenol	1100 U	1100	460	25	07/13/20 15:14	7/7/20	
2,4-Dinitrotoluene	230 U	230	54	25	07/13/20 15:14	7/7/20	
2,6-Dinitrotoluene	230 U	230	30	25	07/13/20 15:14	7/7/20	
2-Chloronaphthalene	230 U	230	31	25	07/13/20 15:14	7/7/20	
2-Chlorophenol	25 J	230	25	25	07/13/20 15:14	7/7/20	
2-Methylnaphthalene	230 U	230	30	25	07/13/20 15:14	7/7/20	
2-Methylphenol	33 J	230	23	25	07/13/20 15:14	7/7/20	
2-Nitroaniline	230 U	230	31	25	07/13/20 15:14	7/7/20	
2-Nitrophenol	230 U	230	34	25	07/13/20 15:14	7/7/20	
3,3'-Dichlorobenzidine	230 U	230	28	25	07/13/20 15:14	7/7/20	
3- and 4-Methylphenol Coelution	60 J	230	27	25	07/13/20 15:14	7/7/20	
3-Nitroaniline	230 U	230	56	25	07/13/20 15:14	7/7/20	
4,6-Dinitro-2-methylphenol	1100 U	1100	440	25	07/13/20 15:14	7/7/20	
4-Bromophenyl Phenyl Ether	230 U	230	38	25	07/13/20 15:14	7/7/20	
4-Chloro-3-methylphenol	30 J	230	25	25	07/13/20 15:14	7/7/20	
4-Chloroaniline	230 U	230	23	25	07/13/20 15:14	7/7/20	
4-Chlorophenyl Phenyl Ether	230 U	230	34	25	07/13/20 15:14	7/7/20	
4-Nitroaniline	230 U	230	62	25	07/13/20 15:14	7/7/20	
4-Nitrophenol	1100 U	1100	150	25	07/13/20 15:14	7/7/20	
Acenaphthene	230 U	230	31	25	07/13/20 15:14	7/7/20	
Acenaphthylene	230 U	230	31	25	07/13/20 15:14	7/7/20	
Anthracene	230 U	230	29	25	07/13/20 15:14	7/7/20	
Benz(a)anthracene	230 U	230	36	25	07/13/20 15:14	7/7/20	
Benzo(a)pyrene	230 U	230	26	25	07/13/20 15:14	7/7/20	
Benzo(b)fluoranthene	230 U	230	26	25	07/13/20 15:14	7/7/20	
Benzo(g,h,i)perylene	230 U	230	23	25	07/13/20 15:14	7/7/20	
Benzo(k)fluoranthene	230 U	230	28	25	07/13/20 15:14	7/7/20	
Benzoic Acid	9200 E	2300	820	25	07/13/20 15:14	7/7/20	
Benzyl Alcohol	250	230	36	25	07/13/20 15:14	7/7/20	
2,2'-Oxybis(1-chloropropane)	230 U	230	32	25	07/13/20 15:14	7/7/20	
Bis(2-chloroethoxy)methane	230 U	230	44	25	07/13/20 15:14	7/7/20	
Bis(2-chloroethyl) Ether	230 U	230	28	25	07/13/20 15:14	7/7/20	
Bis(2-ethylhexyl) Phthalate	230 U	230	23	25	07/13/20 15:14	7/7/20	
Butyl Benzyl Phthalate	230 U	230	32	25	07/13/20 15:14	7/7/20	
Chrysene	230 U	230	27	25	07/13/20 15:14	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	230 U	230	46	25	07/13/20 15:14	7/7/20	
Di-n-octyl Phthalate	230 U	230	74	25	07/13/20 15:14	7/7/20	
Dibenz(a,h)anthracene	230 U	230	24	25	07/13/20 15:14	7/7/20	
Dibenzofuran	230 U	230	31	25	07/13/20 15:14	7/7/20	
Diethyl Phthalate	230 U	230	25	25	07/13/20 15:14	7/7/20	
Dimethyl Phthalate	230 U	230	28	25	07/13/20 15:14	7/7/20	
Fluoranthene	230 U	230	34	25	07/13/20 15:14	7/7/20	
Fluorene	230 U	230	28	25	07/13/20 15:14	7/7/20	
Hexachlorobenzene	230 U	230	35	25	07/13/20 15:14	7/7/20	
Hexachlorobutadiene	230 U	230	23	25	07/13/20 15:14	7/7/20	
Hexachlorocyclopentadiene	230 U	230	49	25	07/13/20 15:14	7/7/20	
Hexachloroethane	230 U	230	24	25	07/13/20 15:14	7/7/20	
Indeno(1,2,3-cd)pyrene	230 U	230	40	25	07/13/20 15:14	7/7/20	
Isophorone	230 U	230	31	25	07/13/20 15:14	7/7/20	
N-Nitrosodi-n-propylamine	230 U	230	26	25	07/13/20 15:14	7/7/20	
N-Nitrosodiphenylamine	230 U	230	60	25	07/13/20 15:14	7/7/20	
Naphthalene	230 U	230	27	25	07/13/20 15:14	7/7/20	
Nitrobenzene	230 U	230	34	25	07/13/20 15:14	7/7/20	
Pentachlorophenol (PCP)	1100 U	1100	230	25	07/13/20 15:14	7/7/20	
Phenanthrene	230 U	230	31	25	07/13/20 15:14	7/7/20	
Phenol	37 J	230	23	25	07/13/20 15:14	7/7/20	
Pyrene	230 U	230	33	25	07/13/20 15:14	7/7/20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	07/13/20 15:14	D
2-Fluorobiphenyl	0 *	31 - 118	07/13/20 15:14	D
2-Fluorophenol	0 *	10 - 105	07/13/20 15:14	D
Nitrobenzene-d5	0 *	31 - 110	07/13/20 15:14	D
Phenol-d6	0 *	10 - 107	07/13/20 15:14	D
p-Terphenyl-d14	0 *	10 - 165	07/13/20 15:14	D

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	72 J	450	51	50	07/13/20 16:10	7/7/20	
1,2-Dichlorobenzene	450 U	450	54	50	07/13/20 16:10	7/7/20	
1,3-Dichlorobenzene	450 U	450	46	50	07/13/20 16:10	7/7/20	
1,4-Dichlorobenzene	100 J	450	52	50	07/13/20 16:10	7/7/20	
2,4,5-Trichlorophenol	450 U	450	50	50	07/13/20 16:10	7/7/20	
2,4,6-Trichlorophenol	450 U	450	62	50	07/13/20 16:10	7/7/20	
2,4-Dichlorophenol	320 J	450	57	50	07/13/20 16:10	7/7/20	
2,4-Dimethylphenol	450 U	450	63	50	07/13/20 16:10	7/7/20	
2,4-Dinitrophenol	2300 U	2300	910	50	07/13/20 16:10	7/7/20	
2,4-Dinitrotoluene	450 U	450	110	50	07/13/20 16:10	7/7/20	
2,6-Dinitrotoluene	450 U	450	60	50	07/13/20 16:10	7/7/20	
2-Chloronaphthalene	450 U	450	62	50	07/13/20 16:10	7/7/20	
2-Chlorophenol	450 U	450	49	50	07/13/20 16:10	7/7/20	
2-Methylnaphthalene	450 U	450	59	50	07/13/20 16:10	7/7/20	
2-Methylphenol	450 U	450	46	50	07/13/20 16:10	7/7/20	
2-Nitroaniline	450 U	450	62	50	07/13/20 16:10	7/7/20	
2-Nitrophenol	450 U	450	68	50	07/13/20 16:10	7/7/20	
3,3'-Dichlorobenzidine	450 U	450	55	50	07/13/20 16:10	7/7/20	
3- and 4-Methylphenol Coelution	60 J	450	53	50	07/13/20 16:10	7/7/20	
3-Nitroaniline	450 U	450	120	50	07/13/20 16:10	7/7/20	
4,6-Dinitro-2-methylphenol	2300 U	2300	870	50	07/13/20 16:10	7/7/20	
4-Bromophenyl Phenyl Ether	450 U	450	75	50	07/13/20 16:10	7/7/20	
4-Chloro-3-methylphenol	450 U	450	49	50	07/13/20 16:10	7/7/20	
4-Chloroaniline	450 U	450	46	50	07/13/20 16:10	7/7/20	
4-Chlorophenyl Phenyl Ether	450 U	450	68	50	07/13/20 16:10	7/7/20	
4-Nitroaniline	450 U	450	130	50	07/13/20 16:10	7/7/20	
4-Nitrophenol	2300 U	2300	290	50	07/13/20 16:10	7/7/20	
Acenaphthene	450 U	450	61	50	07/13/20 16:10	7/7/20	
Acenaphthylene	450 U	450	61	50	07/13/20 16:10	7/7/20	
Anthracene	450 U	450	57	50	07/13/20 16:10	7/7/20	
Benz(a)anthracene	450 U	450	72	50	07/13/20 16:10	7/7/20	
Benzo(a)pyrene	450 U	450	51	50	07/13/20 16:10	7/7/20	
Benzo(b)fluoranthene	450 U	450	51	50	07/13/20 16:10	7/7/20	
Benzo(g,h,i)perylene	450 U	450	46	50	07/13/20 16:10	7/7/20	
Benzo(k)fluoranthene	450 U	450	55	50	07/13/20 16:10	7/7/20	
Benzoic Acid	10000 D	4500	1700	50	07/13/20 16:10	7/7/20	
Benzyl Alcohol	220 J	450	71	50	07/13/20 16:10	7/7/20	
2,2'-Oxybis(1-chloropropane)	450 U	450	64	50	07/13/20 16:10	7/7/20	
Bis(2-chloroethoxy)methane	450 U	450	87	50	07/13/20 16:10	7/7/20	
Bis(2-chloroethyl) Ether	450 U	450	56	50	07/13/20 16:10	7/7/20	
Bis(2-ethylhexyl) Phthalate	450 U	450	46	50	07/13/20 16:10	7/7/20	
Butyl Benzyl Phthalate	450 U	450	64	50	07/13/20 16:10	7/7/20	
Chrysene	450 U	450	53	50	07/13/20 16:10	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	450 U	450	91	50	07/13/20 16:10	7/7/20	
Di-n-octyl Phthalate	450 U	450	150	50	07/13/20 16:10	7/7/20	
Dibenz(a,h)anthracene	450 U	450	47	50	07/13/20 16:10	7/7/20	
Dibenzofuran	450 U	450	62	50	07/13/20 16:10	7/7/20	
Diethyl Phthalate	450 U	450	49	50	07/13/20 16:10	7/7/20	
Dimethyl Phthalate	450 U	450	56	50	07/13/20 16:10	7/7/20	
Fluoranthene	450 U	450	67	50	07/13/20 16:10	7/7/20	
Fluorene	450 U	450	56	50	07/13/20 16:10	7/7/20	
Hexachlorobenzene	450 U	450	70	50	07/13/20 16:10	7/7/20	
Hexachlorobutadiene	450 U	450	46	50	07/13/20 16:10	7/7/20	
Hexachlorocyclopentadiene	450 U	450	98	50	07/13/20 16:10	7/7/20	
Hexachloroethane	450 U	450	48	50	07/13/20 16:10	7/7/20	
Indeno(1,2,3-cd)pyrene	450 U	450	80	50	07/13/20 16:10	7/7/20	
Isophorone	450 U	450	62	50	07/13/20 16:10	7/7/20	
N-Nitrosodi-n-propylamine	450 U	450	52	50	07/13/20 16:10	7/7/20	
N-Nitrosodiphenylamine	450 U	450	120	50	07/13/20 16:10	7/7/20	
Naphthalene	450 U	450	54	50	07/13/20 16:10	7/7/20	
Nitrobenzene	450 U	450	67	50	07/13/20 16:10	7/7/20	
Pentachlorophenol (PCP)	2300 U	2300	450	50	07/13/20 16:10	7/7/20	
Phenanthrene	450 U	450	61	50	07/13/20 16:10	7/7/20	
Phenol	450 U	450	46	50	07/13/20 16:10	7/7/20	
Pyrene	450 U	450	65	50	07/13/20 16:10	7/7/20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	07/13/20 16:10	D
2-Fluorobiphenyl	0 *	31 - 118	07/13/20 16:10	D
2-Fluorophenol	0 *	10 - 105	07/13/20 16:10	D
Nitrobenzene-d5	0 *	31 - 110	07/13/20 16:10	D
Phenol-d6	0 *	10 - 107	07/13/20 16:10	D
p-Terphenyl-d14	0 *	10 - 165	07/13/20 16:10	D



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
4,4'-DDE	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
4,4'-DDT	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Aldrin	1.0 P	0.45	0.19	10	07/10/20 15:00	7/7/20	
Dieldrin	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Endosulfan I	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Endosulfan II	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Endosulfan Sulfate	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Endrin	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Endrin Ketone	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Heptachlor	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Heptachlor Epoxide	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Methoxychlor	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
Toxaphene	4.6 U	4.6	4.6	10	07/10/20 15:00	7/7/20	
alpha-BHC	27	0.45	0.19	10	07/10/20 15:00	7/7/20	
alpha-Chlordane	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	
beta-BHC	6.8 P	0.45	0.19	10	07/10/20 15:00	7/7/20	
delta-BHC	9.2	0.45	0.19	10	07/10/20 15:00	7/7/20	
gamma-BHC (Lindane)	6.5	0.45	0.19	10	07/10/20 15:00	7/7/20	
gamma-Chlordane	0.45 U	0.45	0.19	10	07/10/20 15:00	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	14	10 - 164	07/10/20 15:00	
Tetrachloro-m-xylene	171 *	10 - 147	07/10/20 15:00	*

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 15:51	7/7/20	
alpha-BHC	0.27	0.045	0.019	1	07/08/20 15:51	7/7/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	
beta-BHC	0.040 J	0.045	0.019	1	07/08/20 15:51	7/7/20	
delta-BHC	0.17	0.045	0.019	1	07/08/20 15:51	7/7/20	
gamma-BHC (Lindane)	0.21	0.045	0.019	1	07/08/20 15:51	7/7/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 15:51	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 164	07/08/20 15:51	
Tetrachloro-m-xylene	62	10 - 147	07/08/20 15:51	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 16:10	7/7/20	
alpha-BHC	0.13	0.045	0.019	1	07/08/20 16:10	7/7/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	
delta-BHC	0.029 J	0.045	0.019	1	07/08/20 16:10	7/7/20	
gamma-BHC (Lindane)	0.076	0.045	0.019	1	07/08/20 16:10	7/7/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 16:10	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	17	10 - 164	07/08/20 16:10	
Tetrachloro-m-xylene	56	10 - 147	07/08/20 16:10	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Aldrin	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Dieldrin	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Endrin	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Heptachlor	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
Toxaphene	0.46 U	0.46	0.46	1	07/08/20 16:29	7/7/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
beta-BHC	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
delta-BHC	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/08/20 16:29	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	34	10 - 164	07/08/20 16:29	
Tetrachloro-m-xylene	52	10 - 147	07/08/20 16:29	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
4,4'-DDE	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
4,4'-DDT	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Aldrin	0.85	0.45	0.19	10	07/10/20 15:19	7/7/20	
Dieldrin	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Endosulfan I	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Endosulfan II	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Endosulfan Sulfate	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Endrin	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Endrin Ketone	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Heptachlor	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Heptachlor Epoxide	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Methoxychlor	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
Toxaphene	4.6 U	4.6	4.6	10	07/10/20 15:19	7/7/20	
alpha-BHC	25	0.45	0.19	10	07/10/20 15:19	7/7/20	
alpha-Chlordane	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	
beta-BHC	6.9	0.45	0.19	10	07/10/20 15:19	7/7/20	
delta-BHC	8.7	0.45	0.19	10	07/10/20 15:19	7/7/20	
gamma-BHC (Lindane)	6.2	0.45	0.19	10	07/10/20 15:19	7/7/20	
gamma-Chlordane	0.45 U	0.45	0.19	10	07/10/20 15:19	7/7/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 164	07/10/20 15:19	
Tetrachloro-m-xylene	154 *	10 - 147	07/10/20 15:19	*

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
4,4'-DDE	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
4,4'-DDT	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Aldrin	0.66	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Dieldrin	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Endosulfan I	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Endosulfan II	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Endosulfan Sulfate	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Endrin	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Endrin Ketone	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Heptachlor	0.40 J	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Heptachlor Epoxide	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Methoxychlor	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
Toxaphene	4.6 U	4.6	4.6	10	07/24/20 23:43	7/14/20	*
alpha-BHC	18	0.45	0.19	10	07/24/20 23:43	7/14/20	*
alpha-Chlordane	0.45 U	0.45	0.19	10	07/24/20 23:43	7/14/20	*
beta-BHC	4.4	0.45	0.19	10	07/24/20 23:43	7/14/20	*
delta-BHC	6.3	0.45	0.19	10	07/24/20 23:43	7/14/20	*
gamma-BHC (Lindane)	3.6	0.45	0.19	10	07/24/20 23:43	7/14/20	*
gamma-Chlordane	1.5	0.45	0.19	10	07/24/20 23:43	7/14/20	*

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	36	10 - 164	07/24/20 23:43	
Tetrachloro-m-xylene	317 *	10 - 147	07/24/20 23:43	*

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 15:36	7/7/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 15:36	7/7/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 15:36	7/7/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 15:36	7/7/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 15:36	7/7/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 15:36	7/7/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 15:36	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	22	10 - 152	07/08/20 15:36	
Tetrachloro-m-xylene	50	14 - 129	07/08/20 15:36	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-026
Lab Code: R2005701-002

Service Request: R2005701
Date Collected: 07/01/20 10:45
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/10/20 11:50	7/7/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/10/20 11:50	7/7/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/10/20 11:50	7/7/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/10/20 11:50	7/7/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/10/20 11:50	7/7/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/10/20 11:50	7/7/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/10/20 11:50	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	43	10 - 152	07/10/20 11:50	
Tetrachloro-m-xylene	42	14 - 129	07/10/20 11:50	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-025
Lab Code: R2005701-003

Service Request: R2005701
Date Collected: 07/01/20 09:55
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/10/20 12:10	7/7/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/10/20 12:10	7/7/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/10/20 12:10	7/7/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/10/20 12:10	7/7/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/10/20 12:10	7/7/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/10/20 12:10	7/7/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/10/20 12:10	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 152	07/10/20 12:10	
Tetrachloro-m-xylene	39	14 - 129	07/10/20 12:10	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-024
Lab Code: R2005701-004

Service Request: R2005701
Date Collected: 07/01/20 08:45
Date Received: 07/02/20 10:50

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/10/20 13:09	7/7/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/10/20 13:09	7/7/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/10/20 13:09	7/7/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/10/20 13:09	7/7/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/10/20 13:09	7/7/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/10/20 13:09	7/7/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/10/20 13:09	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 152	07/10/20 13:09	
Tetrachloro-m-xylene	34	14 - 129	07/10/20 13:09	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070120-SG-028
Lab Code: R2005701-006

Service Request: R2005701
Date Collected: 07/01/20 11:50
Date Received: 07/02/20 10:50
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/08/20 17:35	7/7/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/08/20 17:35	7/7/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/08/20 17:35	7/7/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/08/20 17:35	7/7/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/08/20 17:35	7/7/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/08/20 17:35	7/7/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/08/20 17:35	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 152	07/08/20 17:35	
Tetrachloro-m-xylene	57	14 - 129	07/08/20 17:35	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005701

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
WG-9954-070120-SG-027 DL	R2005701-001	96	96	100
WG-9954-070120-SG-026	R2005701-002	95	105	102
WG-9954-070120-SG-025	R2005701-003	98	100	103
WG-9954-070120-SG-024	R2005701-004	96	100	102
WG-9954-070120-SG-028 DL	R2005701-006	96	96	101
Method Blank	RQ2007501-04	95	99	101
Method Blank	RQ2007565-04	94	99	100
Lab Control Sample	RQ2007501-03	103	103	105
Lab Control Sample	RQ2007565-03	98	99	101
WG-9954-070120-SG-027	R2005701-001	114	89	99
TB-9954-070120-SG-005	R2005701-005	91	98	100
WG-9954-070120-SG-028	R2005701-006	113	99	108
Method Blank	RQ2007451-04	95	99	102
Lab Control Sample	RQ2007451-03	99	100	101

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007451-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/13/20 19:02	
2-Butanone (MEK)	10 U	10	0.78	1	07/13/20 19:02	
2-Hexanone	10 U	10	0.20	1	07/13/20 19:02	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/13/20 19:02	
Acetone	10 U	10	5.0	1	07/13/20 19:02	
Benzene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
Bromoform	5.0 U	5.0	0.25	1	07/13/20 19:02	
Bromomethane	5.0 U	5.0	0.70	1	07/13/20 19:02	
Carbon Disulfide	10 U	10	0.42	1	07/13/20 19:02	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/13/20 19:02	
Chlorobenzene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Chloroethane	5.0 U	5.0	0.23	1	07/13/20 19:02	
Chloroform	5.0 U	5.0	0.24	1	07/13/20 19:02	
Chloromethane	0.32 J	5.0	0.28	1	07/13/20 19:02	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/13/20 19:02	
Dichloromethane	5.0 U	5.0	0.65	1	07/13/20 19:02	
Ethylbenzene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Styrene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/13/20 19:02	
Toluene	5.0 U	5.0	0.20	1	07/13/20 19:02	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/13/20 19:02	
Vinyl Acetate	10 U	10	1.1	1	07/13/20 19:02	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/13/20 19:02	
Xylenes, Total	5.0 U	5.0	0.23	1	07/13/20 19:02	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/13/20 19:02	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/13/20 19:02	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/13/20 19:02	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/13/20 19:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007451-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/13/20 19:02	
Dibromofluoromethane	99	89 - 119	07/13/20 19:02	
Toluene-d8	102	87 - 121	07/13/20 19:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007451-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007501-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/14/20 14:25	
2-Butanone (MEK)	10 U	10	0.78	1	07/14/20 14:25	
2-Hexanone	10 U	10	0.20	1	07/14/20 14:25	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/14/20 14:25	
Acetone	10 U	10	5.0	1	07/14/20 14:25	
Benzene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
Bromoform	5.0 U	5.0	0.25	1	07/14/20 14:25	
Bromomethane	5.0 U	5.0	0.70	1	07/14/20 14:25	
Carbon Disulfide	10 U	10	0.42	1	07/14/20 14:25	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/14/20 14:25	
Chlorobenzene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Chloroethane	5.0 U	5.0	0.23	1	07/14/20 14:25	
Chloroform	5.0 U	5.0	0.24	1	07/14/20 14:25	
Chloromethane	5.0 U	5.0	0.28	1	07/14/20 14:25	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/14/20 14:25	
Dichloromethane	5.0 U	5.0	0.65	1	07/14/20 14:25	
Ethylbenzene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Styrene	5.0 U	5.0	0.20	1	07/14/20 14:25	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/14/20 14:25	
Toluene	0.41 J	5.0	0.20	1	07/14/20 14:25	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/14/20 14:25	
Vinyl Acetate	10 U	10	1.1	1	07/14/20 14:25	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/14/20 14:25	
Xylenes, Total	5.0 U	5.0	0.23	1	07/14/20 14:25	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/14/20 14:25	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/14/20 14:25	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/14/20 14:25	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/14/20 14:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007501-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/14/20 14:25	
Dibromofluoromethane	99	89 - 119	07/14/20 14:25	
Toluene-d8	101	87 - 121	07/14/20 14:25	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007501-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.61	8.5	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007565-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/15/20 13:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/15/20 13:34	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/15/20 13:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/15/20 13:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/15/20 13:34	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/15/20 13:34	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/15/20 13:34	
2-Butanone (MEK)	10 U	10	0.78	1	07/15/20 13:34	
2-Hexanone	10 U	10	0.20	1	07/15/20 13:34	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/15/20 13:34	
Acetone	10 U	10	5.0	1	07/15/20 13:34	
Benzene	5.0 U	5.0	0.20	1	07/15/20 13:34	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/15/20 13:34	
Bromoform	5.0 U	5.0	0.25	1	07/15/20 13:34	
Bromomethane	5.0 U	5.0	0.70	1	07/15/20 13:34	
Carbon Disulfide	10 U	10	0.42	1	07/15/20 13:34	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/15/20 13:34	
Chlorobenzene	5.0 U	5.0	0.20	1	07/15/20 13:34	
Chloroethane	5.0 U	5.0	0.23	1	07/15/20 13:34	
Chloroform	5.0 U	5.0	0.24	1	07/15/20 13:34	
Chloromethane	5.0 U	5.0	0.28	1	07/15/20 13:34	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/15/20 13:34	
Dichloromethane	5.0 U	5.0	0.65	1	07/15/20 13:34	
Ethylbenzene	5.0 U	5.0	0.20	1	07/15/20 13:34	
Styrene	5.0 U	5.0	0.20	1	07/15/20 13:34	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/15/20 13:34	
Toluene	5.0 U	5.0	0.20	1	07/15/20 13:34	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/15/20 13:34	
Vinyl Acetate	10 U	10	1.1	1	07/15/20 13:34	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/15/20 13:34	
Xylenes, Total	5.0 U	5.0	0.23	1	07/15/20 13:34	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/15/20 13:34	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/15/20 13:34	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/15/20 13:34	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/15/20 13:34	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007565-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	07/15/20 13:34	
Dibromofluoromethane	99	89 - 119	07/15/20 13:34	
Toluene-d8	100	87 - 121	07/15/20 13:34	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007565-04

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/13/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007451-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.0	20.0	105	75-125
1,1,2,2-Tetrachloroethane	8260C	23.6	20.0	118	78-126
1,1,2-Trichloroethane	8260C	21.4	20.0	107	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.6	20.0	103	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.0	20.0	120 *	71-118
1,2-Dichloroethane	8260C	20.8	20.0	104	71-127
1,2-Dichloropropane	8260C	21.3	20.0	106	80-119
2-Butanone (MEK)	8260C	23.3	20.0	116	61-137
2-Hexanone	8260C	20.5	20.0	102	63-124
4-Methyl-2-pentanone	8260C	21.0	20.0	105	66-124
Acetone	8260C	23.4	20.0	117	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromodichloromethane	8260C	21.1	20.0	105	81-123
Bromoform	8260C	21.4	20.0	107	65-146
Bromomethane	8260C	23.4	20.0	117	42-166
Carbon Disulfide	8260C	21.0	20.0	105	66-128
Carbon Tetrachloride	8260C	21.5	20.0	108	70-127
Chlorobenzene	8260C	21.1	20.0	106	80-121
Chloroethane	8260C	18.6	20.0	93	62-131
Chloroform	8260C	20.5	20.0	103	79-120
Chloromethane	8260C	22.9	20.0	115	65-135
Dibromochloromethane	8260C	22.6	20.0	113	72-128
Dichloromethane	8260C	20.3	20.0	102	73-122
Ethylbenzene	8260C	20.7	20.0	103	76-120
Styrene	8260C	21.1	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	19.1	20.0	95	72-125
Toluene	8260C	21.4	20.0	107	79-119
Trichloroethene (TCE)	8260C	19.6	20.0	98	74-122
Vinyl Acetate	8260C	30.4	20.0	152	52-174
Vinyl Chloride	8260C	22.9	20.0	115	74-159
cis-1,2-Dichloroethene	8260C	21.2	20.0	106	80-121
cis-1,3-Dichloropropene	8260C	21.0	20.0	105	77-122
trans-1,2-Dichloroethene	8260C	23.2	20.0	116	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/13/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007451-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	20.5	20.0	103	71-133

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/14/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007501-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.1	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	22.4	20.0	112	78-126
1,1,2-Trichloroethane	8260C	21.9	20.0	110	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.0	20.0	100	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.5	20.0	112	71-118
1,2-Dichloroethane	8260C	19.9	20.0	99	71-127
1,2-Dichloropropane	8260C	19.8	20.0	99	80-119
2-Butanone (MEK)	8260C	22.7	20.0	114	61-137
2-Hexanone	8260C	19.9	20.0	99	63-124
4-Methyl-2-pentanone	8260C	20.8	20.0	104	66-124
Acetone	8260C	21.8	20.0	109	40-161
Benzene	8260C	20.3	20.0	101	79-119
Bromodichloromethane	8260C	21.0	20.0	105	81-123
Bromoform	8260C	19.8	20.0	99	65-146
Bromomethane	8260C	19.2	20.0	96	42-166
Carbon Disulfide	8260C	21.2	20.0	106	66-128
Carbon Tetrachloride	8260C	21.0	20.0	105	70-127
Chlorobenzene	8260C	20.7	20.0	104	80-121
Chloroethane	8260C	18.2	20.0	91	62-131
Chloroform	8260C	20.1	20.0	101	79-120
Chloromethane	8260C	19.9	20.0	100	65-135
Dibromochloromethane	8260C	22.1	20.0	111	72-128
Dichloromethane	8260C	19.2	20.0	96	73-122
Ethylbenzene	8260C	21.4	20.0	107	76-120
Styrene	8260C	20.7	20.0	103	80-124
Tetrachloroethene (PCE)	8260C	19.9	20.0	100	72-125
Toluene	8260C	21.2	20.0	106	79-119
Trichloroethene (TCE)	8260C	18.0	20.0	90	74-122
Vinyl Acetate	8260C	35.0	20.0	175 *	52-174
Vinyl Chloride	8260C	18.8	20.0	94	74-159
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	80-121
cis-1,3-Dichloropropene	8260C	20.6	20.0	103	77-122
trans-1,2-Dichloroethene	8260C	22.7	20.0	114	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/14/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007501-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.9	20.0	100	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/15/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007565-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.1	20.0	101	75-125
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-126
1,1,2-Trichloroethane	8260C	19.5	20.0	98	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.4	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.2	20.0	116	71-118
1,2-Dichloroethane	8260C	18.9	20.0	95	71-127
1,2-Dichloropropane	8260C	20.6	20.0	103	80-119
2-Butanone (MEK)	8260C	21.0	20.0	105	61-137
2-Hexanone	8260C	18.7	20.0	93	63-124
4-Methyl-2-pentanone	8260C	20.0	20.0	100	66-124
Acetone	8260C	20.0	20.0	100	40-161
Benzene	8260C	20.7	20.0	103	79-119
Bromodichloromethane	8260C	19.6	20.0	98	81-123
Bromoform	8260C	19.9	20.0	99	65-146
Bromomethane	8260C	15.4	20.0	77	42-166
Carbon Disulfide	8260C	21.2	20.0	106	66-128
Carbon Tetrachloride	8260C	21.1	20.0	105	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	21.4	20.0	107	62-131
Chloroform	8260C	20.0	20.0	100	79-120
Chloromethane	8260C	24.7	20.0	124	65-135
Dibromochloromethane	8260C	21.2	20.0	106	72-128
Dichloromethane	8260C	19.8	20.0	99	73-122
Ethylbenzene	8260C	20.5	20.0	103	76-120
Styrene	8260C	20.5	20.0	102	80-124
Tetrachloroethene (PCE)	8260C	20.0	20.0	100	72-125
Toluene	8260C	20.6	20.0	103	79-119
Trichloroethene (TCE)	8260C	18.7	20.0	93	74-122
Vinyl Acetate	8260C	29.2	20.0	146	52-174
Vinyl Chloride	8260C	23.2	20.0	116	74-159
cis-1,2-Dichloroethene	8260C	19.5	20.0	98	80-121
cis-1,3-Dichloropropene	8260C	19.4	20.0	97	77-122
trans-1,2-Dichloroethene	8260C	22.4	20.0	112	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/15/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007565-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005701

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-070120-SG-027	R2005701-001	80	59	29
WG-9954-070120-SG-027 DL	R2005701-001	0*	0*	0*
WG-9954-070120-SG-027 DL	R2005701-001	0*	0*	0*
WG-9954-070120-SG-026	R2005701-002	111	75	45
WG-9954-070120-SG-025	R2005701-003	93	63	40
WG-9954-070120-SG-024	R2005701-004	80	59	35
WG-9954-070120-SG-028	R2005701-006	66	57	32
WG-9954-070120-SG-028 DL	R2005701-006	0*	0*	0*
WG-9954-070120-SG-028 DL	R2005701-006	0*	0*	0*
Method Blank	RQ2007188-01	84	68	48
Lab Control Sample	RQ2007188-02	103	79	52
Duplicate Lab Control Sample	RQ2007188-03	97	86	45
WG-9954-070120-SG-027 MS	RQ2007188-04	67	51	35
WG-9954-070120-SG-027 DMS	RQ2007188-05	71	49	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005701

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-070120-SG-027	R2005701-001	86	24	51
WG-9954-070120-SG-027 DL	R2005701-001	0*	0*	0*
WG-9954-070120-SG-027 DL	R2005701-001	0*	0*	0*
WG-9954-070120-SG-026	R2005701-002	70	33	47
WG-9954-070120-SG-025	R2005701-003	62	25	51
WG-9954-070120-SG-024	R2005701-004	56	26	65
WG-9954-070120-SG-028	R2005701-006	95	27	46
WG-9954-070120-SG-028 DL	R2005701-006	0*	0*	0*
WG-9954-070120-SG-028 DL	R2005701-006	0*	0*	0*
Method Blank	RQ2007188-01	75	35	67
Lab Control Sample	RQ2007188-02	83	39	71
Duplicate Lab Control Sample	RQ2007188-03	82	35	73
WG-9954-070120-SG-027 MS	RQ2007188-04	94	27	39
WG-9954-070120-SG-027 DMS	RQ2007188-05	82	23	37

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dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Collected: 07/01/20
Date Received: 07/02/20
Date Analyzed: 07/9/20
Date Extracted: 07/7/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007188-04				Duplicate Matrix Spike RQ2007188-05				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4-Trichlorobenzene	93	148	72.7	75	141	72.7	66	10-127	13	30
1,2-Dichlorobenzene	25	66.6	72.7	57	63.4	72.7	52	17-105	9	30
1,3-Dichlorobenzene	3.6 J	36.5	72.7	45	33.6	72.7	41	21-99	9	30
1,4-Dichlorobenzene	73	130	72.7	77	125	72.7	71	10-124	8	30
2,4,5-Trichlorophenol	37	65.3	72.7	39 *	73.6	72.7	51	48-134	27	30
2,4,6-Trichlorophenol	9.1 U	42.2	72.7	58	41.5	72.7	57	44-135	2	30
2,4-Dichlorophenol	550 E	504 E	72.7	-62 #	514 E	72.7	-48 #	40-130	NC	30
2,4-Dimethylphenol	8.9 J	66.5	72.7	79	64.6	72.7	77	42-121	3	30
2,4-Dinitrophenol	45 U	67.1	72.7	92	66.8	72.7	92	21-168	<1	30
2,4-Dinitrotoluene	9.1 U	48.6	72.7	67	51.7	72.7	71	37-143	6	30
2,6-Dinitrotoluene	9.1 U	42.5	72.7	58	46.4	72.7	64	39-136	10	30
2-Chloronaphthalene	9.1 U	29.6	72.7	41	28.6	72.7	39 *	40-108	5	30
2-Chlorophenol	27	61.5	72.7	48	58.8	72.7	44	37-112	9	30
2-Methylnaphthalene	1.4 J	56.3	72.7	75	54.3	72.7	73	34-102	3	30
2-Methylphenol	32	63.8	72.7	44	60.1	72.7	38	37-102	15	30
2-Nitroaniline	9.1 U	57.2	72.7	79	57.8	72.7	79	40-136	<1	30
2-Nitrophenol	9.1 U	65.1	72.7	90	60.9	72.7	84	27-143	7	30
3,3'-Dichlorobenzidine	9.1 U	2.48 J	72.7	3 *	3.08 J	72.7	4 *	11-131	29	30
3- and 4-Methylphenol Coelution	71	95.5	72.7	33	89.7	72.7	25 *	30-95	28	30
3-Nitroaniline	9.1 U	28.4	72.7	39	30.1	72.7	41	19-117	5	30
4,6-Dinitro-2-methylphenol	45 U	47.2	72.7	65	48.6	72.7	67	25-154	3	30
4-Bromophenyl Phenyl Ether	9.1 U	34.6	72.7	48	36.9	72.7	51	39-115	6	30
4-Chloro-3-methylphenol	46	101	72.7	77	100	72.7	75	41-126	3	30
4-Chloroaniline	9.1 U	48.1	72.7	66	50.2	72.7	69	19-111	4	30
4-Chlorophenyl Phenyl Ether	9.1 U	31.6	72.7	43	31.6	72.7	43	41-111	<1	30
4-Nitroaniline	9.1 U	26.1	72.7	36	29.6	72.7	41	18-143	13	30
4-Nitrophenol	45 U	31.9 J	72.7	44	30.3 J	72.7	42	10-126	5	30
Acenaphthene	9.1 U	42.2	72.7	58	40.9	72.7	56	43-117	4	30
Acenaphthylene	9.1 U	45.8	72.7	63	45.5	72.7	63	45-119	<1	30
Anthracene	9.1 U	44.0	72.7	60	44.8	72.7	62	45-127	3	30
Benz(a)anthracene	9.1 U	36.1	72.7	50	36.2	72.7	50	46-126	<1	30
Benzo(a)pyrene	9.1 U	38.6	72.7	53	39.1	72.7	54	44-114	2	30
Benzo(b)fluoranthene	9.1 U	34.4	72.7	47	34.0	72.7	47	41-127	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Collected: 07/01/20
Date Received: 07/02/20
Date Analyzed: 07/9/20
Date Extracted: 07/7/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-070120-SG-027
Lab Code: R2005701-001
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007188-04				Duplicate Matrix Spike RQ2007188-05				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzo(g,h,i)perylene	9.1 U	40.2	72.7	55	39.3	72.7	54	50-143	2	30
Benzo(k)fluoranthene	9.1 U	36.6	72.7	50	37.4	72.7	51	46-139	2	30
Benzoic Acid	4500 E	4010 E	109	-482 #	91 U	109	-4155 #	10-94	NC	30
Benzyl Alcohol	290	272	72.7	-30 *	282	72.7	-17 *	31-109	NC	30
2,2'-Oxybis(1-chloropropane)	9.1 U	38.4	72.7	53	34.5	72.7	47	21-126	12	30
Bis(2-chloroethoxy)methane	9.1 U	62.4	72.7	86	61.3	72.7	84	41-118	2	30
Bis(2-chloroethyl) Ether	20	59.0	72.7	54	55.0	72.7	49	33-108	10	30
Bis(2-ethylhexyl) Phthalate	9.1 U	38.0	72.7	52	36.4	72.7	50	41-132	4	30
Butyl Benzyl Phthalate	9.1 U	44.1	72.7	61	42.9	72.7	59	41-148	3	30
Chrysene	9.1 U	38.0	72.7	52	38.1	72.7	52	47-126	<1	30
Di-n-butyl Phthalate	9.1 U	46.5	72.7	64	47.5	72.7	65	43-130	2	30
Di-n-octyl Phthalate	9.1 U	41.7	72.7	57	41.2	72.7	57	40-139	<1	30
Dibenz(a,h)anthracene	9.1 U	43.3	72.7	60	43.0	72.7	59	43-136	2	30
Dibenzofuran	9.1 U	43.3	72.7	60	42.5	72.7	58	46-119	3	30
Diethyl Phthalate	9.1 U	42.8	72.7	59	43.1	72.7	59	36-122	<1	30
Dimethyl Phthalate	9.1 U	41.3	72.7	57	42.6	72.7	59	33-123	3	30
Fluoranthene	9.1 U	44.6	72.7	61	46.1	72.7	63	43-135	3	30
Fluorene	9.1 U	39.0	72.7	54	39.4	72.7	54	43-113	<1	30
Hexachlorobenzene	9.1 U	35.4	72.7	49	37.5	72.7	51	42-125	4	30
Hexachlorobutadiene	9.1 U	55.2	72.7	76	50.7	72.7	70	10-111	8	30
Hexachlorocyclopentadiene	9.1 U	20.9	72.7	29	20.5	72.7	28	10-103	4	30
Hexachloroethane	9.1 U	32.1	72.7	44	29.8	72.7	41	12-101	7	30
Indeno(1,2,3-cd)pyrene	9.1 U	37.9	72.7	52	36.6	72.7	50	49-140	4	30
Isophorone	9.1 U	4.33 J	72.7	6 *	5.01 J	72.7	7 *	40-111	15	30
N-Nitrosodi-n-propylamine	9.1 U	42.4	72.7	58	38.6	72.7	53	35-108	9	30
N-Nitrosodiphenylamine	9.1 U	49.0	72.7	67	53.0	72.7	73	43-127	9	30
Naphthalene	9.1 U	2040 E	72.7	2804 *	2060 E	72.7	2836 *	37-108	1	30
Nitrobenzene	9.1 U	61.0	72.7	84	57.2	72.7	79	35-112	6	30
Pentachlorophenol (PCP)	45 U	76.5	72.7	105	77.3	72.7	106	29-164	<1	30
Phenanthrene	9.1 U	43.3	72.7	60	44.3	72.7	61	46-123	2	30
Phenol	40	60.4	72.7	28	56.5	72.7	23	10-113	20	30
Pyrene	9.1 U	43.2	72.7	59	44.9	72.7	62	44-129	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007188-01

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
2,4-Dinitrophenol	50 U	50	20	1	07/09/20 10:38	7/7/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/09/20 10:38	7/7/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
2-Chlorophenol	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
2-Methylphenol	10 U	10	1.0	1	07/09/20 10:38	7/7/20	
2-Nitroaniline	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
2-Nitrophenol	10 U	10	1.5	1	07/09/20 10:38	7/7/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
3-Nitroaniline	10 U	10	2.5	1	07/09/20 10:38	7/7/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/09/20 10:38	7/7/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/09/20 10:38	7/7/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
4-Chloroaniline	10 U	10	1.0	1	07/09/20 10:38	7/7/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/09/20 10:38	7/7/20	
4-Nitroaniline	10 U	10	2.7	1	07/09/20 10:38	7/7/20	
4-Nitrophenol	50 U	50	6.4	1	07/09/20 10:38	7/7/20	
Acenaphthene	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
Acenaphthylene	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
Anthracene	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
Benz(a)anthracene	10 U	10	1.6	1	07/09/20 10:38	7/7/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/09/20 10:38	7/7/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
Benzoic Acid	100 U	100	36	1	07/09/20 10:38	7/7/20	
Benzyl Alcohol	10 U	10	1.6	1	07/09/20 10:38	7/7/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/09/20 10:38	7/7/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/09/20 10:38	7/7/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
Chrysene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007188-01

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/09/20 10:38	7/7/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/09/20 10:38	7/7/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
Dibenzofuran	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
Diethyl Phthalate	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
Fluoranthene	10 U	10	1.5	1	07/09/20 10:38	7/7/20	
Fluorene	10 U	10	1.3	1	07/09/20 10:38	7/7/20	
Hexachlorobenzene	10 U	10	1.6	1	07/09/20 10:38	7/7/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/09/20 10:38	7/7/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/09/20 10:38	7/7/20	
Hexachloroethane	10 U	10	1.1	1	07/09/20 10:38	7/7/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/09/20 10:38	7/7/20	
Isophorone	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/09/20 10:38	7/7/20	
Naphthalene	10 U	10	1.2	1	07/09/20 10:38	7/7/20	
Nitrobenzene	10 U	10	1.5	1	07/09/20 10:38	7/7/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/09/20 10:38	7/7/20	
Phenanthrene	10 U	10	1.4	1	07/09/20 10:38	7/7/20	
Phenol	10 U	10	1.0	1	07/09/20 10:38	7/7/20	
Pyrene	10 U	10	1.5	1	07/09/20 10:38	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	07/09/20 10:38	
2-Fluorobiphenyl	68	31 - 118	07/09/20 10:38	
2-Fluorophenol	48	10 - 105	07/09/20 10:38	
Nitrobenzene-d5	75	31 - 110	07/09/20 10:38	
Phenol-d6	35	10 - 107	07/09/20 10:38	
p-Terphenyl-d14	67	10 - 165	07/09/20 10:38	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.89	4.3	J
	unknown hydrocarbon	12.48	6.3	J
	unknown hydrocarbon	13.13	6.7	J
	unknown	13.83	5.3	J
	unknown hydrocarbon	14.58	4.1	J
000544-25-2	1,3,5-Cycloheptatriene	2.68	9.2	JN
000095-49-8	Benzene, 1-chloro-2-methyl-	4.12	4.2	JN

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/09/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	52.8	80.0	66	51.4	80.0	64	10-127	3	30
1,2-Dichlorobenzene	8270D	52.1	80.0	65	46.3	80.0	58	23-130	11	30
1,3-Dichlorobenzene	8270D	50.7	80.0	63	44.6	80.0	56	21-90	12	30
1,4-Dichlorobenzene	8270D	49.3	80.0	62	45.1	80.0	56	10-124	10	30
2,4,5-Trichlorophenol	8270D	67.5	80.0	84	67.2	80.0	84	48-134	<1	30
2,4,6-Trichlorophenol	8270D	64.9	80.0	81	64.6	80.0	81	44-135	<1	30
2,4-Dichlorophenol	8270D	56.7	80.0	71	55.8	80.0	70	48-127	1	30
2,4-Dimethylphenol	8270D	63.5	80.0	79	66.6	80.0	83	59-113	5	30
2,4-Dinitrophenol	8270D	57.6	80.0	72	58.1	80.0	73	21-154	1	30
2,4-Dinitrotoluene	8270D	74.5	80.0	93	75.5	80.0	94	54-130	1	30
2,6-Dinitrotoluene	8270D	79.0	80.0	99	80.7	80.0	101	51-127	2	30
2-Chloronaphthalene	8270D	64.2	80.0	80	68.1	80.0	85	40-108	6	30
2-Chlorophenol	8270D	51.3	80.0	64	45.4	80.0	57	42-112	12	30
2-Methylnaphthalene	8270D	57.8	80.0	72	61.4	80.0	77	34-102	7	30
2-Methylphenol	8270D	56.4	80.0	70	51.6	80.0	65	47-100	7	30
2-Nitroaniline	8270D	76.1	80.0	95	76.9	80.0	96	52-133	1	30
2-Nitrophenol	8270D	60.3	80.0	75	61.4	80.0	77	43-131	3	30
3,3'-Dichlorobenzidine	8270D	73.6	80.0	92	72.6	80.0	91	43-126	1	30
3- and 4-Methylphenol Coelution	8270D	51.8	80.0	65	47.2	80.0	59	40-92	10	30
3-Nitroaniline	8270D	73.4	80.0	92	68.6	80.0	86	42-111	7	30
4,6-Dinitro-2-methylphenol	8270D	63.1	80.0	79	58.2	80.0	73	36-152	8	30
4-Bromophenyl Phenyl Ether	8270D	69.7	80.0	87	70.4	80.0	88	48-114	1	30
4-Chloro-3-methylphenol	8270D	64.8	80.0	81	63.6	80.0	80	52-113	1	30
4-Chloroaniline	8270D	66.8	80.0	84	62.7	80.0	78	44-109	7	30
4-Chlorophenyl Phenyl Ether	8270D	63.3	80.0	79	64.8	80.0	81	51-107	3	30
4-Nitroaniline	8270D	71.8	80.0	90	70.0	80.0	88	54-133	2	30
4-Nitrophenol	8270D	27.1 J	80.0	34	24.5 J	80.0	31	10-126	9	30
Acenaphthene	8270D	67.8	80.0	85	71.4	80.0	89	52-107	5	30
Acenaphthylene	8270D	74.2	80.0	93	77.1	80.0	96	55-109	3	30
Anthracene	8270D	77.5	80.0	97	78.0	80.0	98	55-116	1	30
Benz(a)anthracene	8270D	75.0	80.0	94	74.7	80.0	93	61-121	1	30
Benzo(a)pyrene	8270D	85.1	80.0	106	81.7	80.0	102	44-114	4	30
Benzo(b)fluoranthene	8270D	72.5	80.0	91	72.6	80.0	91	62-115	<1	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/09/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007188-02

Duplicate Lab Control Sample
RQ2007188-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	88.4	80.0	111	88.6	80.0	111	63-136	<1	30
Benzo(k)fluoranthene	8270D	80.1	80.0	100	82.4	80.0	103	49-133	3	30
Benzoic Acid	8270D	87.5 J	120	73	87.8 J	120	73	10-94	<1	30
Benzyl Alcohol	8270D	66.2	80.0	83	64.2	80.0	80	31-109	4	30
2,2'-Oxybis(1-chloropropane)	8270D	58.8	80.0	74	56.4	80.0	70	32-122	6	30
Bis(2-chloroethoxy)methane	8270D	59.7	80.0	75	69.6	80.0	87	55-110	15	30
Bis(2-chloroethyl) Ether	8270D	55.3	80.0	69	50.2	80.0	63	46-102	9	30
Bis(2-ethylhexyl) Phthalate	8270D	80.6	80.0	101	81.1	80.0	101	51-132	<1	30
Butyl Benzyl Phthalate	8270D	77.6	80.0	97	79.1	80.0	99	41-148	2	30
Chrysene	8270D	79.3	80.0	99	80.4	80.0	100	57-118	1	30
Di-n-butyl Phthalate	8270D	84.9	80.0	106	84.3	80.0	105	57-128	<1	30
Di-n-octyl Phthalate	8270D	82.0	80.0	102	80.4	80.0	101	62-124	<1	30
Dibenz(a,h)anthracene	8270D	97.4	80.0	122	96.1	80.0	120	54-135	2	30
Dibenzofuran	8270D	72.8	80.0	91	76.1	80.0	95	55-110	4	30
Diethyl Phthalate	8270D	70.7	80.0	88	73.7	80.0	92	53-113	4	30
Dimethyl Phthalate	8270D	77.1	80.0	96	78.7	80.0	98	51-112	2	30
Fluoranthene	8270D	83.7	80.0	105	82.5	80.0	103	66-127	2	30
Fluorene	8270D	72.1	80.0	90	75.3	80.0	94	54-106	4	30
Hexachlorobenzene	8270D	82.6	80.0	103	83.6	80.0	104	53-123	<1	30
Hexachlorobutadiene	8270D	53.9	80.0	67	56.1	80.0	70	16-95	4	30
Hexachlorocyclopentadiene	8270D	30.9	80.0	39	33.7	80.0	42	10-99	7	30
Hexachloroethane	8270D	49.3	80.0	62	43.0	80.0	54	15-92	14	30
Indeno(1,2,3-cd)pyrene	8270D	81.7	80.0	102	78.1	80.0	98	62-137	4	30
Isophorone	8270D	56.8	80.0	71	59.4	80.0	74	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	63.4	80.0	79	65.7	80.0	82	49-115	4	30
N-Nitrosodiphenylamine	8270D	89.2	80.0	112	89.6	80.0	112	45-123	<1	30
Naphthalene	8270D	59.0	80.0	74	59.6	80.0	74	38-99	<1	30
Nitrobenzene	8270D	62.3	80.0	78	63.7	80.0	80	46-108	3	30
Pentachlorophenol (PCP)	8270D	77.6	80.0	97	75.7	80.0	95	29-164	2	30
Phenanthrene	8270D	75.0	80.0	94	75.8	80.0	95	58-118	1	30
Phenol	8270D	33.1	80.0	41	29.5	80.0	37	10-113	10	30
Pyrene	8270D	82.2	80.0	103	83.4	80.0	104	61-122	<1	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005701

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-070120-SG-027	R2005701-001	14	171*
WG-9954-070120-SG-026	R2005701-002	23	62
WG-9954-070120-SG-025	R2005701-003	17	56
WG-9954-070120-SG-024	R2005701-004	34	52
WG-9954-070120-SG-028	R2005701-006	23	154*
WG-9954-070120-SG-028 RE	R2005701-006	36	317*
Method Blank	RQ2007190-01	70	67
Method Blank	RQ2007457-01	67	60
Lab Control Sample	RQ2007190-02	61	63
Duplicate Lab Control Sample	RQ2007190-03	61	63
Lab Control Sample	RQ2007457-02	66	67
Duplicate Lab Control Sample	RQ2007457-03	64	63

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007190-01

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Aldrin	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Dieldrin	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Endrin	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Heptachlor	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
Toxaphene	0.50 U	0.50	0.50	1	07/08/20 14:15	7/7/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
beta-BHC	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
delta-BHC	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/08/20 14:15	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 164	07/08/20 14:15	
Tetrachloro-m-xylene	67	10 - 147	07/08/20 14:15	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007457-01

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Aldrin	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Dieldrin	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endrin	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Heptachlor	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Toxaphene	0.50 U	0.50	0.50	1	07/15/20 14:09	7/14/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
beta-BHC	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
delta-BHC	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 164	07/15/20 14:09	
Tetrachloro-m-xylene	60	10 - 147	07/15/20 14:09	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/08/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample			Duplicate Lab Control Sample			RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	0.323	0.400	81	0.333	0.400	83	42-159	3	30
4,4'-DDE	8081B	0.301	0.400	75	0.312	0.400	78	47-147	3	30
4,4'-DDT	8081B	0.319	0.400	80	0.321	0.400	80	41-149	<1	30
Aldrin	8081B	0.250	0.400	62	0.260	0.400	65	22-137	4	30
Dieldrin	8081B	0.331	0.400	83	0.345	0.400	86	52-144	4	30
Endosulfan I	8081B	0.324	0.400	81	0.338	0.400	84	52-136	4	30
Endosulfan II	8081B	0.340	0.400	85	0.350	0.400	88	57-138	3	30
Endosulfan Sulfate	8081B	0.309	0.400	77	0.314	0.400	78	34-156	2	30
Endrin	8081B	0.331	0.400	83	0.341	0.400	85	56-143	3	30
Endrin Ketone	8081B	0.341	0.400	85	0.348	0.400	87	59-143	2	30
Heptachlor	8081B	0.232	0.400	58	0.235	0.400	59	32-141	1	30
Heptachlor Epoxide	8081B	0.325	0.400	81	0.338	0.400	85	51-143	4	30
Methoxychlor	8081B	0.330	0.400	82	0.333	0.400	83	56-149	<1	30
alpha-BHC	8081B	0.312	0.400	78	0.330	0.400	83	36-151	6	30
alpha-Chlordane	8081B	0.316	0.400	79	0.330	0.400	82	50-139	4	30
beta-BHC	8081B	0.335	0.400	84	0.349	0.400	87	55-149	4	30
delta-BHC	8081B	0.317	0.400	79	0.325	0.400	81	29-159	3	30
gamma-BHC (Lindane)	8081B	0.317	0.400	79	0.332	0.400	83	41-149	5	30
gamma-Chlordane	8081B	0.321	0.400	80	0.237	0.400	59	50-140	30	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/15/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample			Duplicate Lab Control Sample			RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	0.295	0.400	74	0.278	0.400	69	42-159	6	30
4,4'-DDE	8081B	0.296	0.400	74	0.281	0.400	70	47-147	5	30
4,4'-DDT	8081B	0.317	0.400	79	0.308	0.400	77	41-149	3	30
Aldrin	8081B	0.248	0.400	62	0.240	0.400	60	22-137	3	30
Dieldrin	8081B	0.319	0.400	80	0.314	0.400	79	52-144	1	30
Endosulfan I	8081B	0.312	0.400	78	0.307	0.400	77	52-136	2	30
Endosulfan II	8081B	0.231	0.400	58	0.288	0.400	72	57-138	22	30
Endosulfan Sulfate	8081B	0.228	0.400	57	0.267	0.400	67	34-156	16	30
Endrin	8081B	0.325	0.400	81	0.318	0.400	80	56-143	2	30
Endrin Ketone	8081B	0.288	0.400	72	0.305	0.400	76	59-143	6	30
Heptachlor	8081B	0.246	0.400	62	0.250	0.400	63	32-141	2	30
Heptachlor Epoxide	8081B	0.316	0.400	79	0.309	0.400	77	51-143	2	30
Methoxychlor	8081B	0.311	0.400	78	0.315	0.400	79	56-149	1	30
alpha-BHC	8081B	0.311	0.400	78	0.297	0.400	74	36-151	5	30
alpha-Chlordane	8081B	0.309	0.400	77	0.301	0.400	75	50-139	3	30
beta-BHC	8081B	0.312	0.400	78	0.310	0.400	77	55-149	<1	30
delta-BHC	8081B	0.252	0.400	63	0.279	0.400	70	29-159	10	30
gamma-BHC (Lindane)	8081B	0.315	0.400	79	0.301	0.400	75	41-149	4	30
gamma-Chlordane	8081B	0.304	0.400	76	0.297	0.400	74	50-140	2	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005701

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-070120-SG-027	R2005701-001	22	50
WG-9954-070120-SG-026	R2005701-002	43	42
WG-9954-070120-SG-025	R2005701-003	18	39
WG-9954-070120-SG-024	R2005701-004	32	34
WG-9954-070120-SG-028	R2005701-006	24	57
Method Blank	RQ2007190-01	67	55
Lab Control Sample	RQ2007190-02	62	47
Duplicate Lab Control Sample	RQ2007190-03	66	52
WG-9954-070120-SG-025 MS	RQ2007190-04	24	31
WG-9954-070120-SG-025 DMS	RQ2007190-05	25	31

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QA/QC Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	Service Request:	R2005701
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	Date Collected:	07/01/20
Sample Matrix:	Water	Date Received:	07/02/20
		Date Analyzed:	07/10/20
		Date Extracted:	07/7/20

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	WG-9954-070120-SG-025	Units:	ug/L
Lab Code:	R2005701-003	Basis:	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

Analyte Name	Sample Result	Matrix Spike RQ2007190-04			Duplicate Matrix Spike RQ2007190-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1016	0.91 U	1.70	3.64	47	1.93	3.64	53	32-142	13	30
Aroclor 1260	0.91 U	1.77	3.64	49	1.89	3.64	52	28-142	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007190-01

Service Request: R2005701
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/08/20 14:37	7/7/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/08/20 14:37	7/7/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/08/20 14:37	7/7/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/08/20 14:37	7/7/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/08/20 14:37	7/7/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/08/20 14:37	7/7/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/08/20 14:37	7/7/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 152	07/08/20 14:37	
Tetrachloro-m-xylene	55	14 - 129	07/08/20 14:37	

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005701
Date Analyzed: 07/08/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample RQ2007190-02					Duplicate Lab Control Sample RQ2007190-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	2.88	4.00	72	3.30	4.00	82	49-123	13	30
Aroclor 1260	8082A	3.13	4.00	78	3.62	4.00	91	30-120	15	30



July 27, 2020

Service Request No:R2005820

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory July 08, 2020
For your reference, these analyses have been assigned our service request number **R2005820**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005820
Date Received: 07/08/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 07/08/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/14/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/14/2020: The Method Blank contained a low level of one or more analytes at concentrations above the Method Detection Limit (MDL). Since there were no detections of the analyte(s) in the associated field samples, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/14/2020: The lower control limit for the spike recovery of the Matrix Spike Duplicate (MSD) was exceeded for one or more analyte. Precision is also outside limits. The LCS/LCSD/MS were within limits for all analytes. The analytes affected are flagged in the MS Summary.

Semivolatile GC:

Method 8081B, 07/14/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/13/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/16/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/13/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC/MS:

Method 8260C, 07/20/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/20/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by



Date

07/27/2020



Method 8260C, 07/19/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 07/19/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by 

Date 07/27/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070620-SG-029			Lab ID: R2005820-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	6.4	J	0.42	10	ug/L	8260C
alpha-BHC	0.47		0.019	0.045	ug/L	8081B
delta-BHC	0.13		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.48		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070720-SG-032			Lab ID: R2005820-004			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	3.7	J	0.42	10	ug/L	8260C
alpha-BHC	0.070		0.019	0.045	ug/L	8081B
delta-BHC	0.067		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.098		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070720-SG-030			Lab ID: R2005820-005			
-----------------------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	3.4	J	0.42	10	ug/L	8260C
alpha-BHC	0.24		0.019	0.045	ug/L	8081B
delta-BHC	0.084		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.26		0.019	0.045	ug/L	8081B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005820

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005820-001	TB-9954-070620-SG-006	7/6/2020	0000
R2005820-002	WG-9954-070620-SG-029	7/6/2020	1355
R2005820-003	WG-9954-070720-SG-031	7/7/2020	1030
R2005820-004	WG-9954-070720-SG-032	7/7/2020	1300
R2005820-005	WG-9954-070720-SG-030	7/7/2020	1215

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Kathy Willy
806 95TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL GW
Email: kathy.willy@ghd.com	Project Number: 9954

Lab Information
Laboratory: ALS
Laboratory Location: 1665 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623
ROCHESTER, NY 14623
Laboratory Contact: BRADY KALKMAN
Requested Due Date: TAT: 10
QA/QC Requirements:

Event Information
ID#: LC ANNUAL GW SAMPLING 2020-06-1
SSOW Ref#: 292-402-999-3100
Sampler Name: <u>S GARDNER, D TYRAN</u>

Sample Identification	Valid Matrix Code						Remarks
	WG Groundwater	WB Borehole Water	WS Surface Water	SO Soil	SE Sediment		
	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	
TB-9954-070620-SG-006	WG Q	07/06/2020	00:00	0	0	3	
WG-9954-070620-SG-029	WG	07/06/2020	13:55	2	2	3	
WG-9954-070720-SG-031	WG	07/07/2020	10:30	2	2	3	
WG-9954-070720-SG-032	WG	07/07/2020	13:00	2	2	3	
WG-9954-070720-SG-030	WG	07/07/2020	12:15	2	2	3	
Total Bottles				8	8	16	Grand Total:31

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	1	<u>Shawn Gardner</u>	7/7/2020	1430	<u>[Signature]</u>	7/8/2020	10120
AIRBILL#:							

R2005820

GHD Services Inc.
Love Canal:292-402-002-3100

5



ALS Environmental

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

SR#

004, 005, 006, 007, 008, 009, 010,
011, 012, 013

T030477

Project Name: Love Canal:292-402-002-3100	
Project Number: 9954 Annual Long Term Monitoring	Report To: Kathy Willy
Company / Address: GHD Services Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls NY, 14304	
Phone #: 716-297-2160	FAX #: 716-297-2265
Sampler Signature	Sampler Printed Name

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS										REMARKS
				8081B / Pest OC	8082A / PCB	8270D / SVO	8260C / VOC FP	1	2	3	4	5	6	
1.			Liquid											
2.			Liquid											
3.			Liquid											
4.			Liquid											
5.			Liquid											
6.			Liquid											
7.			Liquid											
8.			Liquid											
9.			Liquid											
10.			Liquid											

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

___ Standard (3 weeks)

REQUESTED FAX DATE

Requested Report Date

Report Requirements

- ___ I. Results Only
 ___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
 ___ III. Results + QC and Calibration Summaries
☒ IV. Data Validation Report with Raw Data

EData ___ Yes ___ No

Invoice Information

P.O.#

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

R2005820
 GHD Services Inc.
 Love Canal:292-402-002-3100

5





Cooler Receipt and Preservation Check Form

R2005820

5

GHD Services Inc.
Love Canal: 292-402-002-3100

Project/Client

GHD

Folder Number

Cooler received on

7/8/2020

by

KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> <u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> <u>N</u>
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> <u>N</u>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> <u>N</u>

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles?	<u>Y</u> <u>N</u> <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

3. Temperature Readings

Date:

7/8/2020

Time:

11:55

ID: IR#7

IR#10

From

Temp Blank

Sample Bottle

Observed Temp (°C)	<u>2.8</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location:

R-002

by KE

on 7/8/20

at 12:02

5035 samples placed in storage location:

by

on

at

within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 7/8/2020 Time: 16:45 by: KE

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

YES NO

10. Did all bottle labels and tags agree with custody papers?

YES NO

11. Were correct containers used for the tests indicated?

YES NO

12. Were 5035 vials acceptable (no extra labels, not leaking)?

YES NO

13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized

Tedlar® Bags Inflated

N/A
N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	No lot info					

**VOAs and 1664 Not to be tested before analysis.

Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: No lot info No lot info for VOA vials, 051120-1BML

Explain all Discrepancies/ Other Comments:

*Trip Blank: All 3 vials

Labels secondary reviewed by: KE

PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005820

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2005820-001.01					
	8260C				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/19/2020	1230	In Lab / KRUEST	
		7/19/2020	1251	R-001-S12 / KRUEST	
R2005820-001.02					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-001.03					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-002.01					
	8081B,8082A				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/10/2020	1200	In Lab / VSTAUFFER	
R2005820-002.02					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
R2005820-002.03					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/19/2020	1230	In Lab / KRUEST	
		7/19/2020	1250	R-001-S12 / KRUEST	
R2005820-002.04					
	8260C				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/20/2020	1209	In Lab / KRUEST	
		7/20/2020	1359	R-001-S12 / KRUEST	
R2005820-002.05					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-002.06					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005820

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
R2005820-002.07	8270D				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/13/2020	0808	In Lab / VSTAUFFER	
R2005820-003.01					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
R2005820-003.02	8081B,8082A				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/10/2020	1200	In Lab / VSTAUFFER	
R2005820-003.03	8260C				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/19/2020	1230	In Lab / KRUEST	
		7/19/2020	1250	R-001-S12 / KRUEST	
R2005820-003.04					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-003.05					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-003.06	8270D				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/13/2020	0808	In Lab / VSTAUFFER	
R2005820-003.07					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005820

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2005820-004.01	8081B,8082A	7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/10/2020	1200	In Lab / VSTAUFFER	
R2005820-004.02		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
R2005820-004.03		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/19/2020	1230	In Lab / KRUEST	
R2005820-004.04	8260C	7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/20/2020	1209	In Lab / KRUEST	
		7/20/2020	1359	R-001-S12 / KRUEST	
R2005820-004.05		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-004.06	8270D	7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/13/2020	0808	In Lab / VSTAUFFER	
R2005820-004.07		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
R2005820-005.01	8081B,8082A	7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/10/2020	1201	In Lab / VSTAUFFER	
R2005820-005.02		7/8/2020	1649	SMO / DWARD	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD Services Inc.

Service Request: R2005820

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		7/8/2020	1651	R-002 / DWARD	
		7/13/2020	0808	In Lab / VSTAUFFER	
R2005820-005.03					
	8260C				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
		7/19/2020	1230	In Lab / KRUEST	
		7/19/2020	1250	R-001-S12 / KRUEST	
		7/20/2020	1209	In Lab / KRUEST	
		7/20/2020	1359	R-001-S12 / KRUEST	
R2005820-005.04					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-005.05					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-001 / DWARD	
R2005820-005.06					
	8270D				
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/13/2020	0808	In Lab / VSTAUFFER	
R2005820-005.07					
		7/8/2020	1649	SMO / DWARD	
		7/8/2020	1651	R-002 / DWARD	
		7/13/2020	0808	In Lab / VSTAUFFER	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005820

Sample Name: TB-9954-070620-SG-006
Lab Code: R2005820-001
Sample Matrix: Water

Date Collected: 07/6/20**Date Received:** 07/8/20

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002
Sample Matrix: Water

Date Collected: 07/6/20**Date Received:** 07/8/20

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
KSERCU
KSERCU

KSERCU

Analyzed By
JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003
Sample Matrix: Water

Date Collected: 07/7/20**Date Received:** 07/8/20

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
KSERCU
KSERCU

KSERCU

Analyzed By
JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004
Sample Matrix: Water

Date Collected: 07/7/20**Date Received:** 07/8/20

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
KSERCU
KSERCU

KSERCU

Analyzed By
JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring

Service Request: R2005820

Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005
Sample Matrix: Water

Date Collected: 07/7/20
Date Received: 07/8/20

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

KSERCU
KSERCU

KSERCU

Analyzed By

JMISIUREWICZ
BALLGEIER
KRUEST
JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070620-SG-006
Lab Code: R2005820-001

Service Request: R2005820
Date Collected: 07/06/20 00:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/19/20 18:54	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/19/20 18:54	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/19/20 18:54	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/19/20 18:54	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/19/20 18:54	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/19/20 18:54	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/19/20 18:54	
2-Butanone (MEK)	10 U	10	0.78	1	07/19/20 18:54	
2-Hexanone	10 U	10	0.20	1	07/19/20 18:54	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/19/20 18:54	
Acetone	10 U	10	5.0	1	07/19/20 18:54	
Benzene	5.0 U	5.0	0.20	1	07/19/20 18:54	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/19/20 18:54	
Bromoform	5.0 U	5.0	0.25	1	07/19/20 18:54	
Bromomethane	5.0 U	5.0	0.70	1	07/19/20 18:54	
Carbon Disulfide	10 U	10	0.42	1	07/19/20 18:54	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/19/20 18:54	
Chlorobenzene	5.0 U	5.0	0.20	1	07/19/20 18:54	
Chloroethane	5.0 U	5.0	0.23	1	07/19/20 18:54	
Chloroform	5.0 U	5.0	0.24	1	07/19/20 18:54	
Chloromethane	5.0 U	5.0	0.28	1	07/19/20 18:54	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/19/20 18:54	
Dichloromethane	5.0 U	5.0	0.65	1	07/19/20 18:54	
Ethylbenzene	5.0 U	5.0	0.20	1	07/19/20 18:54	
Styrene	5.0 U	5.0	0.20	1	07/19/20 18:54	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/19/20 18:54	
Toluene	5.0 U	5.0	0.20	1	07/19/20 18:54	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/19/20 18:54	
Vinyl Acetate	10 U	10	1.1	1	07/19/20 18:54	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/19/20 18:54	
Xylenes, Total	5.0 U	5.0	0.23	1	07/19/20 18:54	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/19/20 18:54	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/19/20 18:54	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/19/20 18:54	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/19/20 18:54	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070620-SG-006
Lab Code: R2005820-001

Service Request: R2005820
Date Collected: 07/06/20 00:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	07/19/20 18:54	
Dibromofluoromethane	98	89 - 119	07/19/20 18:54	
Toluene-d8	101	87 - 121	07/19/20 18:54	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070620-SG-006
Lab Code: R2005820-001

Service Request: R2005820
Date Collected: 07/06/20 00:00
Date Received: 07/08/20 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
No Tentatively Identified Compounds Detected				

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/20/20 15:11	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/20/20 15:11	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/20/20 15:11	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/20/20 15:11	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/20/20 15:11	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/20/20 15:11	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/20/20 15:11	
2-Butanone (MEK)	10 U	10	0.78	1	07/20/20 15:11	
2-Hexanone	10 U	10	0.20	1	07/20/20 15:11	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/20/20 15:11	
Acetone	10 U	10	5.0	1	07/20/20 15:11	
Benzene	5.0 U	5.0	0.20	1	07/20/20 15:11	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/20/20 15:11	
Bromoform	5.0 U	5.0	0.25	1	07/20/20 15:11	
Bromomethane	5.0 U	5.0	0.70	1	07/20/20 15:11	
Carbon Disulfide	6.4 J	10	0.42	1	07/20/20 15:11	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/20/20 15:11	
Chlorobenzene	5.0 U	5.0	0.20	1	07/20/20 15:11	
Chloroethane	5.0 U	5.0	0.23	1	07/20/20 15:11	
Chloroform	5.0 U	5.0	0.24	1	07/20/20 15:11	
Chloromethane	5.0 U	5.0	0.28	1	07/20/20 15:11	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/20/20 15:11	
Dichloromethane	5.0 U	5.0	0.65	1	07/20/20 15:11	
Ethylbenzene	5.0 U	5.0	0.20	1	07/20/20 15:11	
Styrene	5.0 U	5.0	0.20	1	07/20/20 15:11	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/20/20 15:11	
Toluene	5.0 U	5.0	0.20	1	07/20/20 15:11	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/20/20 15:11	
Vinyl Acetate	10 U	10	1.1	1	07/20/20 15:11	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/20/20 15:11	
Xylenes, Total	5.0 U	5.0	0.23	1	07/20/20 15:11	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/20/20 15:11	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/20/20 15:11	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/20/20 15:11	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/20/20 15:11	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	07/20/20 15:11	
Dibromofluoromethane	98	89 - 119	07/20/20 15:11	
Toluene-d8	101	87 - 121	07/20/20 15:11	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.21	6.8	J
007446-09-5	Sulfur dioxide	1.32	303.7	JN
000066-25-1	Hexanal	9.24	7.7	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/19/20 19:16	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/19/20 19:16	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/19/20 19:16	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/19/20 19:16	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/19/20 19:16	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/19/20 19:16	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/19/20 19:16	
2-Butanone (MEK)	10 U	10	0.78	1	07/19/20 19:16	
2-Hexanone	10 U	10	0.20	1	07/19/20 19:16	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/19/20 19:16	
Acetone	10 U	10	5.0	1	07/19/20 19:16	
Benzene	5.0 U	5.0	0.20	1	07/19/20 19:16	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/19/20 19:16	
Bromoform	5.0 U	5.0	0.25	1	07/19/20 19:16	
Bromomethane	5.0 U	5.0	0.70	1	07/19/20 19:16	
Carbon Disulfide	10 U	10	0.42	1	07/19/20 19:16	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/19/20 19:16	
Chlorobenzene	5.0 U	5.0	0.20	1	07/19/20 19:16	
Chloroethane	5.0 U	5.0	0.23	1	07/19/20 19:16	
Chloroform	5.0 U	5.0	0.24	1	07/19/20 19:16	
Chloromethane	5.0 U	5.0	0.28	1	07/19/20 19:16	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/19/20 19:16	
Dichloromethane	5.0 U	5.0	0.65	1	07/19/20 19:16	
Ethylbenzene	5.0 U	5.0	0.20	1	07/19/20 19:16	
Styrene	5.0 U	5.0	0.20	1	07/19/20 19:16	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/19/20 19:16	
Toluene	5.0 U	5.0	0.20	1	07/19/20 19:16	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/19/20 19:16	
Vinyl Acetate	10 U	10	1.1	1	07/19/20 19:16	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/19/20 19:16	
Xylenes, Total	5.0 U	5.0	0.23	1	07/19/20 19:16	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/19/20 19:16	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/19/20 19:16	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/19/20 19:16	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/19/20 19:16	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/19/20 19:16	
Dibromofluoromethane	98	89 - 119	07/19/20 19:16	
Toluene-d8	99	87 - 121	07/19/20 19:16	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/20/20 15:33	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/20/20 15:33	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/20/20 15:33	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/20/20 15:33	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/20/20 15:33	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/20/20 15:33	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/20/20 15:33	
2-Butanone (MEK)	10 U	10	0.78	1	07/20/20 15:33	
2-Hexanone	10 U	10	0.20	1	07/20/20 15:33	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/20/20 15:33	
Acetone	10 U	10	5.0	1	07/20/20 15:33	
Benzene	5.0 U	5.0	0.20	1	07/20/20 15:33	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/20/20 15:33	
Bromoform	5.0 U	5.0	0.25	1	07/20/20 15:33	
Bromomethane	5.0 U	5.0	0.70	1	07/20/20 15:33	
Carbon Disulfide	3.7 J	10	0.42	1	07/20/20 15:33	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/20/20 15:33	
Chlorobenzene	5.0 U	5.0	0.20	1	07/20/20 15:33	
Chloroethane	5.0 U	5.0	0.23	1	07/20/20 15:33	
Chloroform	5.0 U	5.0	0.24	1	07/20/20 15:33	
Chloromethane	5.0 U	5.0	0.28	1	07/20/20 15:33	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/20/20 15:33	
Dichloromethane	5.0 U	5.0	0.65	1	07/20/20 15:33	
Ethylbenzene	5.0 U	5.0	0.20	1	07/20/20 15:33	
Styrene	5.0 U	5.0	0.20	1	07/20/20 15:33	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/20/20 15:33	
Toluene	5.0 U	5.0	0.20	1	07/20/20 15:33	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/20/20 15:33	
Vinyl Acetate	10 U	10	1.1	1	07/20/20 15:33	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/20/20 15:33	
Xylenes, Total	5.0 U	5.0	0.23	1	07/20/20 15:33	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/20/20 15:33	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/20/20 15:33	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/20/20 15:33	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/20/20 15:33	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	07/20/20 15:33	
Dibromofluoromethane	104	89 - 119	07/20/20 15:33	
Toluene-d8	104	87 - 121	07/20/20 15:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.21	1.4	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/20/20 15:55	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/20/20 15:55	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/20/20 15:55	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/20/20 15:55	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/20/20 15:55	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/20/20 15:55	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/20/20 15:55	
2-Butanone (MEK)	10 U	10	0.78	1	07/20/20 15:55	
2-Hexanone	10 U	10	0.20	1	07/20/20 15:55	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/20/20 15:55	
Acetone	10 U	10	5.0	1	07/20/20 15:55	
Benzene	5.0 U	5.0	0.20	1	07/20/20 15:55	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/20/20 15:55	
Bromoform	5.0 U	5.0	0.25	1	07/20/20 15:55	
Bromomethane	5.0 U	5.0	0.70	1	07/20/20 15:55	
Carbon Disulfide	3.4 J	10	0.42	1	07/20/20 15:55	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/20/20 15:55	
Chlorobenzene	5.0 U	5.0	0.20	1	07/20/20 15:55	
Chloroethane	5.0 U	5.0	0.23	1	07/20/20 15:55	
Chloroform	5.0 U	5.0	0.24	1	07/20/20 15:55	
Chloromethane	5.0 U	5.0	0.28	1	07/20/20 15:55	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/20/20 15:55	
Dichloromethane	5.0 U	5.0	0.65	1	07/20/20 15:55	
Ethylbenzene	5.0 U	5.0	0.20	1	07/20/20 15:55	
Styrene	5.0 U	5.0	0.20	1	07/20/20 15:55	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/20/20 15:55	
Toluene	5.0 U	5.0	0.20	1	07/20/20 15:55	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/20/20 15:55	
Vinyl Acetate	10 U	10	1.1	1	07/20/20 15:55	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/20/20 15:55	
Xylenes, Total	5.0 U	5.0	0.23	1	07/20/20 15:55	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/20/20 15:55	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/20/20 15:55	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/20/20 15:55	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/20/20 15:55	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/20/20 15:55	
Dibromofluoromethane	100	89 - 119	07/20/20 15:55	
Toluene-d8	101	87 - 121	07/20/20 15:55	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	48.8	JN



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/14/20 18:03	7/13/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/14/20 18:03	7/13/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
2,4-Dinitrophenol	45 U	45	19	1	07/14/20 18:03	7/13/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/14/20 18:03	7/13/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/14/20 18:03	7/13/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/14/20 18:03	7/13/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/14/20 18:03	7/13/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/14/20 18:03	7/13/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/14/20 18:03	7/13/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/14/20 18:03	7/13/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/14/20 18:03	7/13/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/14/20 18:03	7/13/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/14/20 18:03	7/13/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/14/20 18:03	7/13/20	
4-Nitrophenol	45 U	45	5.8	1	07/14/20 18:03	7/13/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
Anthracene	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/14/20 18:03	7/13/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/14/20 18:03	7/13/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
Benzoic Acid	91 U	91	33	1	07/14/20 18:03	7/13/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/14/20 18:03	7/13/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/14/20 18:03	7/13/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/14/20 18:03	7/13/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
Chrysene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/14/20 18:03	7/13/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/14/20 18:03	7/13/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/14/20 18:03	7/13/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/14/20 18:03	7/13/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/14/20 18:03	7/13/20	
Fluorene	9.1 U	9.1	1.2	1	07/14/20 18:03	7/13/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/14/20 18:03	7/13/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/14/20 18:03	7/13/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/14/20 18:03	7/13/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/14/20 18:03	7/13/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/14/20 18:03	7/13/20	
Isophorone	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/14/20 18:03	7/13/20	
Naphthalene	9.1 U	9.1	1.1	1	07/14/20 18:03	7/13/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/14/20 18:03	7/13/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/14/20 18:03	7/13/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	
Phenol	9.1 U	9.1	0.91	1	07/14/20 18:03	7/13/20	
Pyrene	9.1 U	9.1	1.3	1	07/14/20 18:03	7/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	07/14/20 18:03	
2-Fluorobiphenyl	48	31 - 118	07/14/20 18:03	
2-Fluorophenol	36	10 - 105	07/14/20 18:03	
Nitrobenzene-d5	46	31 - 110	07/14/20 18:03	
Phenol-d6	30	10 - 107	07/14/20 18:03	
p-Terphenyl-d14	41	10 - 165	07/14/20 18:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	7.82	13	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/14/20 18:32	7/13/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/14/20 18:32	7/13/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
2,4-Dinitrophenol	45 U	45	19	1	07/14/20 18:32	7/13/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/14/20 18:32	7/13/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/14/20 18:32	7/13/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/14/20 18:32	7/13/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/14/20 18:32	7/13/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/14/20 18:32	7/13/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/14/20 18:32	7/13/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/14/20 18:32	7/13/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/14/20 18:32	7/13/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/14/20 18:32	7/13/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/14/20 18:32	7/13/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/14/20 18:32	7/13/20	
4-Nitrophenol	45 U	45	5.8	1	07/14/20 18:32	7/13/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
Anthracene	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/14/20 18:32	7/13/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/14/20 18:32	7/13/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
Benzoic Acid	91 U	91	33	1	07/14/20 18:32	7/13/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/14/20 18:32	7/13/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/14/20 18:32	7/13/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/14/20 18:32	7/13/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
Chrysene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/14/20 18:32	7/13/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/14/20 18:32	7/13/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/14/20 18:32	7/13/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/14/20 18:32	7/13/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/14/20 18:32	7/13/20	
Fluorene	9.1 U	9.1	1.2	1	07/14/20 18:32	7/13/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/14/20 18:32	7/13/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/14/20 18:32	7/13/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/14/20 18:32	7/13/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/14/20 18:32	7/13/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/14/20 18:32	7/13/20	
Isophorone	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/14/20 18:32	7/13/20	
Naphthalene	9.1 U	9.1	1.1	1	07/14/20 18:32	7/13/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/14/20 18:32	7/13/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/14/20 18:32	7/13/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	
Phenol	9.1 U	9.1	0.91	1	07/14/20 18:32	7/13/20	
Pyrene	9.1 U	9.1	1.3	1	07/14/20 18:32	7/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	63	35 - 141	07/14/20 18:32	
2-Fluorobiphenyl	52	31 - 118	07/14/20 18:32	
2-Fluorophenol	36	10 - 105	07/14/20 18:32	
Nitrobenzene-d5	45	31 - 110	07/14/20 18:32	
Phenol-d6	26	10 - 107	07/14/20 18:32	
p-Terphenyl-d14	54	10 - 165	07/14/20 18:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/14/20 19:00	7/13/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/14/20 19:00	7/13/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
2,4-Dinitrophenol	45 U	45	19	1	07/14/20 19:00	7/13/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/14/20 19:00	7/13/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/14/20 19:00	7/13/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/14/20 19:00	7/13/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/14/20 19:00	7/13/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/14/20 19:00	7/13/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/14/20 19:00	7/13/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/14/20 19:00	7/13/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/14/20 19:00	7/13/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/14/20 19:00	7/13/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/14/20 19:00	7/13/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/14/20 19:00	7/13/20	
4-Nitrophenol	45 U	45	5.8	1	07/14/20 19:00	7/13/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
Anthracene	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/14/20 19:00	7/13/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/14/20 19:00	7/13/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
Benzoic Acid	91 U	91	33	1	07/14/20 19:00	7/13/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/14/20 19:00	7/13/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/14/20 19:00	7/13/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/14/20 19:00	7/13/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
Chrysene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/14/20 19:00	7/13/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/14/20 19:00	7/13/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/14/20 19:00	7/13/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/14/20 19:00	7/13/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/14/20 19:00	7/13/20	
Fluorene	9.1 U	9.1	1.2	1	07/14/20 19:00	7/13/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/14/20 19:00	7/13/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/14/20 19:00	7/13/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/14/20 19:00	7/13/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/14/20 19:00	7/13/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/14/20 19:00	7/13/20	
Isophorone	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/14/20 19:00	7/13/20	
Naphthalene	9.1 U	9.1	1.1	1	07/14/20 19:00	7/13/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/14/20 19:00	7/13/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/14/20 19:00	7/13/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	
Phenol	9.1 U	9.1	0.91	1	07/14/20 19:00	7/13/20	
Pyrene	9.1 U	9.1	1.3	1	07/14/20 19:00	7/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	07/14/20 19:00	
2-Fluorobiphenyl	58	31 - 118	07/14/20 19:00	
2-Fluorophenol	39	10 - 105	07/14/20 19:00	
Nitrobenzene-d5	55	31 - 110	07/14/20 19:00	
Phenol-d6	27	10 - 107	07/14/20 19:00	
p-Terphenyl-d14	39	10 - 165	07/14/20 19:00	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.88	4.4	J
	unknown hydrocarbon	12.48	5.7	J
	unknown hydrocarbon	13.12	5.6	J
	unknown hydrocarbon	13.82	4.9	J
	unknown hydrocarbon	14.57	5.6	J
	unknown hydrocarbon	16.10	4.4	J
013798-23-7	Sulfur	7.78	4.2	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/14/20 19:28	7/13/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/14/20 19:28	7/13/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
2,4-Dinitrophenol	45 U	45	19	1	07/14/20 19:28	7/13/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/14/20 19:28	7/13/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/14/20 19:28	7/13/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/14/20 19:28	7/13/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/14/20 19:28	7/13/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/14/20 19:28	7/13/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/14/20 19:28	7/13/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/14/20 19:28	7/13/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/14/20 19:28	7/13/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/14/20 19:28	7/13/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/14/20 19:28	7/13/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/14/20 19:28	7/13/20	
4-Nitrophenol	45 U	45	5.8	1	07/14/20 19:28	7/13/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
Anthracene	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/14/20 19:28	7/13/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/14/20 19:28	7/13/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
Benzoic Acid	91 U	91	33	1	07/14/20 19:28	7/13/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/14/20 19:28	7/13/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/14/20 19:28	7/13/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/14/20 19:28	7/13/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
Chrysene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/14/20 19:28	7/13/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/14/20 19:28	7/13/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/14/20 19:28	7/13/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/14/20 19:28	7/13/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/14/20 19:28	7/13/20	
Fluorene	9.1 U	9.1	1.2	1	07/14/20 19:28	7/13/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/14/20 19:28	7/13/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/14/20 19:28	7/13/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/14/20 19:28	7/13/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/14/20 19:28	7/13/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/14/20 19:28	7/13/20	
Isophorone	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/14/20 19:28	7/13/20	
Naphthalene	9.1 U	9.1	1.1	1	07/14/20 19:28	7/13/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/14/20 19:28	7/13/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/14/20 19:28	7/13/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	
Phenol	9.1 U	9.1	0.91	1	07/14/20 19:28	7/13/20	
Pyrene	9.1 U	9.1	1.3	1	07/14/20 19:28	7/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	07/14/20 19:28	
2-Fluorobiphenyl	52	31 - 118	07/14/20 19:28	
2-Fluorophenol	35	10 - 105	07/14/20 19:28	
Nitrobenzene-d5	52	31 - 110	07/14/20 19:28	
Phenol-d6	26	10 - 107	07/14/20 19:28	
p-Terphenyl-d14	50	10 - 165	07/14/20 19:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.88	6.0	J
	unknown hydrocarbon	12.47	7.3	J
	unknown hydrocarbon	13.12	8.3	J
	unknown hydrocarbon	13.82	6.8	J
	unknown hydrocarbon	14.57	6.0	J
	unknown hydrocarbon	15.35	4.6	J
	unknown	2.87	11	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	3.11	7.6	J



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Aldrin	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Dieldrin	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Endrin	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Heptachlor	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
Toxaphene	0.46 U	0.46	0.46	1	07/14/20 09:49	7/10/20	
alpha-BHC	0.47	0.045	0.019	1	07/14/20 09:49	7/10/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
beta-BHC	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	
delta-BHC	0.13	0.045	0.019	1	07/14/20 09:49	7/10/20	
gamma-BHC (Lindane)	0.48	0.045	0.019	1	07/14/20 09:49	7/10/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/14/20 09:49	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	51	10 - 164	07/14/20 09:49	
Tetrachloro-m-xylene	63	10 - 147	07/14/20 09:49	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Aldrin	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Dieldrin	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Endrin	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Heptachlor	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
Toxaphene	0.46 U	0.46	0.46	1	07/13/20 21:05	7/10/20	
alpha-BHC	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
beta-BHC	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
delta-BHC	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
gamma-BHC (Lindane)	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/13/20 21:05	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10 - 164	07/13/20 21:05	
Tetrachloro-m-xylene	56	10 - 147	07/13/20 21:05	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Aldrin	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Dieldrin	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Endrin	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Heptachlor	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
Toxaphene	0.46 U	0.46	0.46	1	07/14/20 10:08	7/10/20	
alpha-BHC	0.070	0.045	0.019	1	07/14/20 10:08	7/10/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
beta-BHC	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	
delta-BHC	0.067	0.045	0.019	1	07/14/20 10:08	7/10/20	
gamma-BHC (Lindane)	0.098	0.045	0.019	1	07/14/20 10:08	7/10/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/14/20 10:08	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 164	07/14/20 10:08	
Tetrachloro-m-xylene	63	10 - 147	07/14/20 10:08	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Aldrin	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Dieldrin	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Endrin	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Heptachlor	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
Toxaphene	0.46 U	0.46	0.46	1	07/14/20 10:27	7/10/20	
alpha-BHC	0.24	0.045	0.019	1	07/14/20 10:27	7/10/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
beta-BHC	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	
delta-BHC	0.084	0.045	0.019	1	07/14/20 10:27	7/10/20	
gamma-BHC (Lindane)	0.26	0.045	0.019	1	07/14/20 10:27	7/10/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/14/20 10:27	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	77	10 - 164	07/14/20 10:27	
Tetrachloro-m-xylene	73	10 - 147	07/14/20 10:27	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070620-SG-029
Lab Code: R2005820-002

Service Request: R2005820
Date Collected: 07/06/20 13:55
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/14/20 17:02	7/10/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/14/20 17:02	7/10/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/14/20 17:02	7/10/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/14/20 17:02	7/10/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/14/20 17:02	7/10/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/14/20 17:02	7/10/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/14/20 17:02	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 152	07/14/20 17:02	
Tetrachloro-m-xylene	54	14 - 129	07/14/20 17:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-031
Lab Code: R2005820-003

Service Request: R2005820
Date Collected: 07/07/20 10:30
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/13/20 19:13	7/10/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/13/20 19:13	7/10/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/13/20 19:13	7/10/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/13/20 19:13	7/10/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/13/20 19:13	7/10/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/13/20 19:13	7/10/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/13/20 19:13	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 152	07/13/20 19:13	
Tetrachloro-m-xylene	47	14 - 129	07/13/20 19:13	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-032
Lab Code: R2005820-004

Service Request: R2005820
Date Collected: 07/07/20 13:00
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/14/20 17:22	7/10/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/14/20 17:22	7/10/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/14/20 17:22	7/10/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/14/20 17:22	7/10/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/14/20 17:22	7/10/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/14/20 17:22	7/10/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/14/20 17:22	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 152	07/14/20 17:22	
Tetrachloro-m-xylene	52	14 - 129	07/14/20 17:22	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005

Service Request: R2005820
Date Collected: 07/07/20 12:15
Date Received: 07/08/20 10:20
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/16/20 14:40	7/10/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/16/20 14:40	7/10/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/16/20 14:40	7/10/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/16/20 14:40	7/10/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/16/20 14:40	7/10/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/16/20 14:40	7/10/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/16/20 14:40	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	68	10 - 152	07/16/20 14:40	
Tetrachloro-m-xylene	55	14 - 129	07/16/20 14:40	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005820

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
TB-9954-070620-SG-006	R2005820-001	94	98	101
WG-9954-070620-SG-029	R2005820-002	97	98	101
WG-9954-070720-SG-031	R2005820-003	93	98	99
WG-9954-070720-SG-032	R2005820-004	98	104	104
WG-9954-070720-SG-030	R2005820-005	95	100	101
Method Blank	RQ2007740-04	95	99	98
Method Blank	RQ2007775-04	94	98	100
Lab Control Sample	RQ2007740-03	99	100	102
Lab Control Sample	RQ2007775-03	101	100	105

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007740-04

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/19/20 13:26	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/19/20 13:26	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/19/20 13:26	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/19/20 13:26	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/19/20 13:26	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/19/20 13:26	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/19/20 13:26	
2-Butanone (MEK)	10 U	10	0.78	1	07/19/20 13:26	
2-Hexanone	10 U	10	0.20	1	07/19/20 13:26	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/19/20 13:26	
Acetone	10 U	10	5.0	1	07/19/20 13:26	
Benzene	5.0 U	5.0	0.20	1	07/19/20 13:26	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/19/20 13:26	
Bromoform	5.0 U	5.0	0.25	1	07/19/20 13:26	
Bromomethane	5.0 U	5.0	0.70	1	07/19/20 13:26	
Carbon Disulfide	10 U	10	0.42	1	07/19/20 13:26	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/19/20 13:26	
Chlorobenzene	5.0 U	5.0	0.20	1	07/19/20 13:26	
Chloroethane	5.0 U	5.0	0.23	1	07/19/20 13:26	
Chloroform	5.0 U	5.0	0.24	1	07/19/20 13:26	
Chloromethane	5.0 U	5.0	0.28	1	07/19/20 13:26	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/19/20 13:26	
Dichloromethane	5.0 U	5.0	0.65	1	07/19/20 13:26	
Ethylbenzene	5.0 U	5.0	0.20	1	07/19/20 13:26	
Styrene	5.0 U	5.0	0.20	1	07/19/20 13:26	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/19/20 13:26	
Toluene	5.0 U	5.0	0.20	1	07/19/20 13:26	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/19/20 13:26	
Vinyl Acetate	10 U	10	1.1	1	07/19/20 13:26	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/19/20 13:26	
Xylenes, Total	5.0 U	5.0	0.23	1	07/19/20 13:26	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/19/20 13:26	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/19/20 13:26	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/19/20 13:26	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/19/20 13:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007740-04

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	07/19/20 13:26	
Dibromofluoromethane	99	89 - 119	07/19/20 13:26	
Toluene-d8	98	87 - 121	07/19/20 13:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007740-04

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007775-04

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/20/20 12:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/20/20 12:31	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/20/20 12:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/20/20 12:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/20/20 12:31	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/20/20 12:31	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/20/20 12:31	
2-Butanone (MEK)	10 U	10	0.78	1	07/20/20 12:31	
2-Hexanone	10 U	10	0.20	1	07/20/20 12:31	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/20/20 12:31	
Acetone	10 U	10	5.0	1	07/20/20 12:31	
Benzene	5.0 U	5.0	0.20	1	07/20/20 12:31	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/20/20 12:31	
Bromoform	5.0 U	5.0	0.25	1	07/20/20 12:31	
Bromomethane	5.0 U	5.0	0.70	1	07/20/20 12:31	
Carbon Disulfide	10 U	10	0.42	1	07/20/20 12:31	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/20/20 12:31	
Chlorobenzene	5.0 U	5.0	0.20	1	07/20/20 12:31	
Chloroethane	5.0 U	5.0	0.23	1	07/20/20 12:31	
Chloroform	5.0 U	5.0	0.24	1	07/20/20 12:31	
Chloromethane	5.0 U	5.0	0.28	1	07/20/20 12:31	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/20/20 12:31	
Dichloromethane	5.0 U	5.0	0.65	1	07/20/20 12:31	
Ethylbenzene	5.0 U	5.0	0.20	1	07/20/20 12:31	
Styrene	5.0 U	5.0	0.20	1	07/20/20 12:31	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/20/20 12:31	
Toluene	5.0 U	5.0	0.20	1	07/20/20 12:31	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/20/20 12:31	
Vinyl Acetate	10 U	10	1.1	1	07/20/20 12:31	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/20/20 12:31	
Xylenes, Total	5.0 U	5.0	0.23	1	07/20/20 12:31	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/20/20 12:31	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/20/20 12:31	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/20/20 12:31	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/20/20 12:31	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007775-04

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	07/20/20 12:31	
Dibromofluoromethane	98	89 - 119	07/20/20 12:31	
Toluene-d8	100	87 - 121	07/20/20 12:31	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007775-04

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/19/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007740-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.2	20.0	106	75-125
1,1,2,2-Tetrachloroethane	8260C	22.4	20.0	112	78-126
1,1,2-Trichloroethane	8260C	21.0	20.0	105	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.8	20.0	104	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	25.1	20.0	125 *	71-118
1,2-Dichloroethane	8260C	20.0	20.0	100	71-127
1,2-Dichloropropane	8260C	21.2	20.0	106	80-119
2-Butanone (MEK)	8260C	21.6	20.0	108	61-137
2-Hexanone	8260C	19.1	20.0	96	63-124
4-Methyl-2-pentanone	8260C	19.7	20.0	99	66-124
Acetone	8260C	23.0	20.0	115	40-161
Benzene	8260C	21.1	20.0	106	79-119
Bromodichloromethane	8260C	20.0	20.0	100	81-123
Bromoform	8260C	20.4	20.0	102	65-146
Bromomethane	8260C	18.0	20.0	90	42-166
Carbon Disulfide	8260C	21.3	20.0	106	66-128
Carbon Tetrachloride	8260C	21.7	20.0	109	70-127
Chlorobenzene	8260C	20.8	20.0	104	80-121
Chloroethane	8260C	20.8	20.0	104	62-131
Chloroform	8260C	19.9	20.0	100	79-120
Chloromethane	8260C	24.0	20.0	120	65-135
Dibromochloromethane	8260C	21.9	20.0	109	72-128
Dichloromethane	8260C	20.8	20.0	104	73-122
Ethylbenzene	8260C	21.5	20.0	108	76-120
Styrene	8260C	21.3	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	21.2	20.0	106	72-125
Toluene	8260C	21.2	20.0	106	79-119
Trichloroethene (TCE)	8260C	19.4	20.0	97	74-122
Vinyl Acetate	8260C	30.1	20.0	151	52-174
Vinyl Chloride	8260C	24.3	20.0	121	74-159
cis-1,2-Dichloroethene	8260C	20.2	20.0	101	80-121
cis-1,3-Dichloropropene	8260C	20.3	20.0	101	77-122
trans-1,2-Dichloroethene	8260C	22.8	20.0	114	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820**Date Analyzed:** 07/19/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L**Basis:**NA**Lab Control Sample**

RQ2007740-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.9	20.0	99	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/20/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007775-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.2	20.0	101	75-125
1,1,2,2-Tetrachloroethane	8260C	22.7	20.0	114	78-126
1,1,2-Trichloroethane	8260C	21.1	20.0	105	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.1	20.0	105	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.9	20.0	119 *	71-118
1,2-Dichloroethane	8260C	19.6	20.0	98	71-127
1,2-Dichloropropane	8260C	20.8	20.0	104	80-119
2-Butanone (MEK)	8260C	21.8	20.0	109	61-137
2-Hexanone	8260C	19.5	20.0	98	63-124
4-Methyl-2-pentanone	8260C	20.3	20.0	101	66-124
Acetone	8260C	23.4	20.0	117	40-161
Benzene	8260C	20.8	20.0	104	79-119
Bromodichloromethane	8260C	19.8	20.0	99	81-123
Bromoform	8260C	19.4	20.0	97	65-146
Bromomethane	8260C	18.2	20.0	91	42-166
Carbon Disulfide	8260C	21.6	20.0	108	66-128
Carbon Tetrachloride	8260C	19.8	20.0	99	70-127
Chlorobenzene	8260C	20.5	20.0	103	80-121
Chloroethane	8260C	22.3	20.0	112	62-131
Chloroform	8260C	20.3	20.0	101	79-120
Chloromethane	8260C	25.0	20.0	125	65-135
Dibromochloromethane	8260C	21.8	20.0	109	72-128
Dichloromethane	8260C	20.8	20.0	104	73-122
Ethylbenzene	8260C	20.3	20.0	101	76-120
Styrene	8260C	20.6	20.0	103	80-124
Tetrachloroethene (PCE)	8260C	19.5	20.0	98	72-125
Toluene	8260C	20.6	20.0	103	79-119
Trichloroethene (TCE)	8260C	18.1	20.0	90	74-122
Vinyl Acetate	8260C	31.4	20.0	157	52-174
Vinyl Chloride	8260C	25.3	20.0	126	74-159
cis-1,2-Dichloroethene	8260C	20.9	20.0	105	80-121
cis-1,3-Dichloropropene	8260C	19.6	20.0	98	77-122
trans-1,2-Dichloroethene	8260C	23.8	20.0	119 *	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/20/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007775-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.3	20.0	97	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005820

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-070620-SG-029	R2005820-002	86	48	36
WG-9954-070720-SG-031	R2005820-003	63	52	36
WG-9954-070720-SG-032	R2005820-004	80	58	39
WG-9954-070720-SG-030	R2005820-005	79	52	35
Method Blank	RQ2007408-01	67	54	45
Lab Control Sample	RQ2007408-02	82	64	40
Duplicate Lab Control Sample	RQ2007408-03	89	70	42
WG-9954-070720-SG-030 MS	RQ2007408-04	94	72	41
WG-9954-070720-SG-030 DMS	RQ2007408-05	65	52	29

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005820

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-070620-SG-029	R2005820-002	46	30	41
WG-9954-070720-SG-031	R2005820-003	45	26	54
WG-9954-070720-SG-032	R2005820-004	55	27	39
WG-9954-070720-SG-030	R2005820-005	52	26	50
Method Blank	RQ2007408-01	55	32	60
Lab Control Sample	RQ2007408-02	65	32	58
Duplicate Lab Control Sample	RQ2007408-03	63	32	62
WG-9954-070720-SG-030 MS	RQ2007408-04	72	36	47
WG-9954-070720-SG-030 DMS	RQ2007408-05	54	21	29

ALS Group USA, Corp.
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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Collected: 07/07/20
Date Received: 07/08/20
Date Analyzed: 07/14/20
Date Extracted: 07/13/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2007408-04				Duplicate Matrix Spike RQ2007408-05				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4-Trichlorobenzene	9.1 U	44.7	72.7	62	32.1	72.7	44	10-127	34*	30
1,2-Dichlorobenzene	9.1 U	40.6	72.7	56	30.6	72.7	42	17-105	29	30
1,3-Dichlorobenzene	9.1 U	40.8	72.7	56	29.8	72.7	41	21-99	31*	30
1,4-Dichlorobenzene	9.1 U	40.3	72.7	55	30.3	72.7	42	10-124	27	30
2,4,5-Trichlorophenol	9.1 U	57.2	72.7	79	38.0	72.7	52	48-134	41*	30
2,4,6-Trichlorophenol	9.1 U	54.1	72.7	74	38.7	72.7	53	44-135	33*	30
2,4-Dichlorophenol	9.1 U	47.9	72.7	66	34.3	72.7	47	40-130	34*	30
2,4-Dimethylphenol	9.1 U	54.4	72.7	75	38.5	72.7	53	42-121	34*	30
2,4-Dinitrophenol	45 U	49.6	72.7	68	33.6 J	72.7	46	21-168	39*	30
2,4-Dinitrotoluene	9.1 U	64.4	72.7	88	43.1	72.7	59	37-143	39*	30
2,6-Dinitrotoluene	9.1 U	66.8	72.7	92	46.5	72.7	64	39-136	36*	30
2-Chloronaphthalene	9.1 U	54.1	72.7	74	39.5	72.7	54	40-108	31*	30
2-Chlorophenol	9.1 U	41.2	72.7	57	30.5	72.7	42	37-112	30	30
2-Methylnaphthalene	9.1 U	46.2	72.7	64	34.8	72.7	48	34-102	29	30
2-Methylphenol	9.1 U	51.3	72.7	71	32.3	72.7	44	37-102	47*	30
2-Nitroaniline	9.1 U	62.6	72.7	86	43.5	72.7	60	40-136	36*	30
2-Nitrophenol	9.1 U	50.9	72.7	70	38.0	72.7	52	27-143	30	30
3,3'-Dichlorobenzidine	9.1 U	55.6	72.7	76	40.5	72.7	56	11-131	30	30
3- and 4-Methylphenol Coelution	9.1 U	46.1	72.7	63	28.5	72.7	39	30-95	47*	30
3-Nitroaniline	9.1 U	57.1	72.7	78	39.9	72.7	55	19-117	35*	30
4,6-Dinitro-2-methylphenol	45 U	56.0	72.7	77	34.7 J	72.7	48	25-154	46*	30
4-Bromophenyl Phenyl Ether	9.1 U	52.9	72.7	73	37.0	72.7	51	39-115	35*	30
4-Chloro-3-methylphenol	9.1 U	54.1	72.7	74	36.1	72.7	50	41-126	39*	30
4-Chloroaniline	9.1 U	54.3	72.7	75	38.1	72.7	52	19-111	36*	30
4-Chlorophenyl Phenyl Ether	9.1 U	48.2	72.7	66	33.5	72.7	46	41-111	36*	30
4-Nitroaniline	9.1 U	64.2	72.7	88	41.5	72.7	57	18-143	43*	30
4-Nitrophenol	45 U	19.1 J	72.7	26	9.87 J	72.7	14	10-126	60*	30
Acenaphthene	9.1 U	56.1	72.7	77	40.6	72.7	56	43-117	32*	30
Acenaphthylene	9.1 U	59.7	72.7	82	45.2	72.7	62	45-119	28	30
Anthracene	9.1 U	59.8	72.7	82	39.8	72.7	55	45-127	39*	30
Benz(a)anthracene	9.1 U	44.4	72.7	61	26.5	72.7	36 *	46-126	52*	30
Benzo(a)pyrene	9.1 U	46.2	72.7	64	26.2	72.7	36 *	44-114	56*	30
Benzo(b)fluoranthene	9.1 U	40.9	72.7	56	23.3	72.7	32 *	41-127	55*	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Collected: 07/07/20
Date Received: 07/08/20
Date Analyzed: 07/14/20
Date Extracted: 07/13/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: WG-9954-070720-SG-030
Lab Code: R2005820-005
Analysis Method: 8270D
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2007408-04			Duplicate Matrix Spike RQ2007408-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(g,h,i)perylene	9.1 U	46.0	72.7	63	26.5	72.7	36 *	50-143	55*	30
Benzo(k)fluoranthene	9.1 U	44.2	72.7	61	25.7	72.7	35 *	46-139	54*	30
Benzoic Acid	91 U	79.9 J	109	73	56.3 J	109	52	10-94	34*	30
Benzyl Alcohol	9.1 U	52.0	72.7	72	35.1	72.7	48	31-109	40*	30
2,2'-Oxybis(1-chloropropane)	9.1 U	49.6	72.7	68	37.5	72.7	52	21-126	27	30
Bis(2-chloroethoxy)methane	9.1 U	55.7	72.7	77	40.7	72.7	56	41-118	32*	30
Bis(2-chloroethyl) Ether	9.1 U	46.8	72.7	64	31.6	72.7	43	33-108	39*	30
Bis(2-ethylhexyl) Phthalate	9.1 U	42.8	72.7	59	25.9	72.7	36 *	41-132	48*	30
Butyl Benzyl Phthalate	9.1 U	54.8	72.7	75	37.1	72.7	51	41-148	38*	30
Chrysene	9.1 U	46.3	72.7	64	27.6	72.7	38 *	47-126	51*	30
Di-n-butyl Phthalate	9.1 U	63.6	72.7	87	42.2	72.7	58	43-130	40*	30
Di-n-octyl Phthalate	9.1 U	42.0	72.7	58	27.2	72.7	37 *	40-139	44*	30
Dibenz(a,h)anthracene	9.1 U	49.5	72.7	68	28.4	72.7	39 *	43-136	54*	30
Dibenzofuran	9.1 U	60.2	72.7	83	42.1	72.7	58	46-119	35*	30
Diethyl Phthalate	9.1 U	58.4	72.7	80	45.1	72.7	62	36-122	25	30
Dimethyl Phthalate	9.1 U	63.4	72.7	87	44.9	72.7	62	33-123	34*	30
Fluoranthene	9.1 U	62.2	72.7	85	37.7	72.7	52	43-135	48*	30
Fluorene	9.1 U	60.3	72.7	83	41.9	72.7	58	43-113	35*	30
Hexachlorobenzene	9.1 U	54.3	72.7	75	34.7	72.7	48	42-125	44*	30
Hexachlorobutadiene	9.1 U	46.0	72.7	63	30.7	72.7	42	10-111	40*	30
Hexachlorocyclopentadiene	9.1 U	4.26 J	72.7	6 *	3.77 J	72.7	5 *	10-103	18	30
Hexachloroethane	9.1 U	41.8	72.7	57	30.8	72.7	42	12-101	30	30
Indeno(1,2,3-cd)pyrene	9.1 U	39.9	72.7	55	22.7	72.7	31 *	49-140	56*	30
Isophorone	9.1 U	46.4	72.7	64	34.7	72.7	48	40-111	29	30
N-Nitrosodi-n-propylamine	9.1 U	57.6	72.7	79	42.0	72.7	58	35-108	31*	30
N-Nitrosodiphenylamine	9.1 U	72.9	72.7	100	53.9	72.7	74	43-127	30	30
Naphthalene	9.1 U	50.7	72.7	70	36.4	72.7	50	37-108	33*	30
Nitrobenzene	9.1 U	50.2	72.7	69	38.0	72.7	52	35-112	28	30
Pentachlorophenol (PCP)	45 U	61.4	72.7	84	40.3 J	72.7	55	29-164	42*	30
Phenanthrene	9.1 U	59.0	72.7	81	39.9	72.7	55	46-123	38*	30
Phenol	9.1 U	27.4	72.7	38	17.5	72.7	24	10-113	45*	30
Pyrene	9.1 U	60.7	72.7	83	39.6	72.7	55	44-129	41*	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007408-01

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
2,4-Dinitrophenol	50 U	50	20	1	07/14/20 16:10	7/13/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/14/20 16:10	7/13/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
2-Chlorophenol	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
2-Methylphenol	10 U	10	1.0	1	07/14/20 16:10	7/13/20	
2-Nitroaniline	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
2-Nitrophenol	10 U	10	1.5	1	07/14/20 16:10	7/13/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
3-Nitroaniline	10 U	10	2.5	1	07/14/20 16:10	7/13/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/14/20 16:10	7/13/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/14/20 16:10	7/13/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
4-Chloroaniline	10 U	10	1.0	1	07/14/20 16:10	7/13/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/14/20 16:10	7/13/20	
4-Nitroaniline	10 U	10	2.7	1	07/14/20 16:10	7/13/20	
4-Nitrophenol	50 U	50	6.4	1	07/14/20 16:10	7/13/20	
Acenaphthene	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
Acenaphthylene	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
Anthracene	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
Benz(a)anthracene	10 U	10	1.6	1	07/14/20 16:10	7/13/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/14/20 16:10	7/13/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
Benzoic Acid	100 U	100	36	1	07/14/20 16:10	7/13/20	
Benzyl Alcohol	10 U	10	1.6	1	07/14/20 16:10	7/13/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/14/20 16:10	7/13/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/14/20 16:10	7/13/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
Chrysene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007408-01

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	2.4 J	10	2.0	1	07/14/20 16:10	7/13/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/14/20 16:10	7/13/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
Dibenzofuran	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
Diethyl Phthalate	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
Fluoranthene	10 U	10	1.5	1	07/14/20 16:10	7/13/20	
Fluorene	10 U	10	1.3	1	07/14/20 16:10	7/13/20	
Hexachlorobenzene	10 U	10	1.6	1	07/14/20 16:10	7/13/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/14/20 16:10	7/13/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/14/20 16:10	7/13/20	
Hexachloroethane	10 U	10	1.1	1	07/14/20 16:10	7/13/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/14/20 16:10	7/13/20	
Isophorone	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/14/20 16:10	7/13/20	
Naphthalene	10 U	10	1.2	1	07/14/20 16:10	7/13/20	
Nitrobenzene	10 U	10	1.5	1	07/14/20 16:10	7/13/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/14/20 16:10	7/13/20	
Phenanthrene	10 U	10	1.4	1	07/14/20 16:10	7/13/20	
Phenol	10 U	10	1.0	1	07/14/20 16:10	7/13/20	
Pyrene	10 U	10	1.5	1	07/14/20 16:10	7/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	67	35 - 141	07/14/20 16:10	
2-Fluorobiphenyl	54	31 - 118	07/14/20 16:10	
2-Fluorophenol	45	10 - 105	07/14/20 16:10	
Nitrobenzene-d5	55	31 - 110	07/14/20 16:10	
Phenol-d6	32	10 - 107	07/14/20 16:10	
p-Terphenyl-d14	60	10 - 165	07/14/20 16:10	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/14/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2007408-02					RQ2007408-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	41.0	80.0	51	45.3	80.0	57	10-127	11	30
1,2-Dichlorobenzene	8270D	40.1	80.0	50	43.3	80.0	54	23-130	8	30
1,3-Dichlorobenzene	8270D	38.8	80.0	48	41.6	80.0	52	21-90	8	30
1,4-Dichlorobenzene	8270D	38.9	80.0	49	41.5	80.0	52	10-124	6	30
2,4,5-Trichlorophenol	8270D	54.6	80.0	68	62.1	80.0	78	48-134	14	30
2,4,6-Trichlorophenol	8270D	53.8	80.0	67	57.6	80.0	72	44-135	7	30
2,4-Dichlorophenol	8270D	44.9	80.0	56	49.6	80.0	62	48-127	10	30
2,4-Dimethylphenol	8270D	51.1	80.0	64	55.3	80.0	69	59-113	8	30
2,4-Dinitrophenol	8270D	49.7 J	80.0	62	47.6 J	80.0	60	21-154	3	30
2,4-Dinitrotoluene	8270D	60.9	80.0	76	66.3	80.0	83	54-130	9	30
2,6-Dinitrotoluene	8270D	64.2	80.0	80	71.6	80.0	90	51-127	12	30
2-Chloronaphthalene	8270D	51.3	80.0	64	55.8	80.0	70	40-108	9	30
2-Chlorophenol	8270D	40.5	80.0	51	43.4	80.0	54	42-112	6	30
2-Methylnaphthalene	8270D	47.8	80.0	60	48.8	80.0	61	34-102	2	30
2-Methylphenol	8270D	44.5	80.0	56	48.2	80.0	60	47-100	7	30
2-Nitroaniline	8270D	60.0	80.0	75	64.4	80.0	80	52-133	6	30
2-Nitrophenol	8270D	47.5	80.0	59	49.6	80.0	62	43-131	5	30
3,3'-Dichlorobenzidine	8270D	59.6	80.0	75	64.0	80.0	80	43-126	6	30
3- and 4-Methylphenol Coelution	8270D	41.8	80.0	52	43.3	80.0	54	40-92	4	30
3-Nitroaniline	8270D	57.1	80.0	71	61.3	80.0	77	42-111	8	30
4,6-Dinitro-2-methylphenol	8270D	53.3	80.0	67	58.2	80.0	73	36-152	9	30
4-Bromophenyl Phenyl Ether	8270D	61.6	80.0	77	65.6	80.0	82	48-114	6	30
4-Chloro-3-methylphenol	8270D	54.4	80.0	68	58.7	80.0	73	52-113	7	30
4-Chloroaniline	8270D	54.2	80.0	68	56.9	80.0	71	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	53.2	80.0	67	56.3	80.0	70	51-107	4	30
4-Nitroaniline	8270D	58.4	80.0	73	64.4	80.0	80	54-133	9	30
4-Nitrophenol	8270D	19.5 J	80.0	24	19.5 J	80.0	24	10-126	<1	30
Acenaphthene	8270D	55.9	80.0	70	59.6	80.0	74	52-107	6	30
Acenaphthylene	8270D	59.5	80.0	74	64.7	80.0	81	55-109	9	30
Anthracene	8270D	63.3	80.0	79	68.2	80.0	85	55-116	7	30
Benz(a)anthracene	8270D	59.3	80.0	74	63.9	80.0	80	61-121	8	30
Benzo(a)pyrene	8270D	61.3	80.0	77	69.0	80.0	86	44-114	11	30
Benzo(b)fluoranthene	8270D	58.2	80.0	73	65.0	80.0	81	62-115	10	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/14/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007408-02

Duplicate Lab Control Sample
RQ2007408-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	69.3	80.0	87	76.1	80.0	95	63-136	9	30
Benzo(k)fluoranthene	8270D	65.8	80.0	82	72.3	80.0	90	49-133	9	30
Benzoic Acid	8270D	67.3 J	120	56	69.8 J	120	58	10-94	4	30
Benzyl Alcohol	8270D	52.5	80.0	66	52.8	80.0	66	31-109	<1	30
2,2'-Oxybis(1-chloropropane)	8270D	45.4	80.0	57	48.4	80.0	61	32-122	7	30
Bis(2-chloroethoxy)methane	8270D	51.7	80.0	65	55.3	80.0	69	55-110	6	30
Bis(2-chloroethyl) Ether	8270D	43.2	80.0	54	47.0	80.0	59	46-102	9	30
Bis(2-ethylhexyl) Phthalate	8270D	62.9	80.0	79	66.6	80.0	83	51-132	5	30
Butyl Benzyl Phthalate	8270D	60.3	80.0	75	66.3	80.0	83	41-148	10	30
Chrysene	8270D	64.6	80.0	81	70.0	80.0	88	57-118	8	30
Di-n-butyl Phthalate	8270D	68.0	80.0	85	75.5	80.0	94	57-128	10	30
Di-n-octyl Phthalate	8270D	61.7	80.0	77	67.7	80.0	85	62-124	10	30
Dibenz(a,h)anthracene	8270D	74.6	80.0	93	83.6	80.0	105	54-135	12	30
Dibenzofuran	8270D	61.0	80.0	76	65.1	80.0	81	55-110	6	30
Diethyl Phthalate	8270D	60.3	80.0	75	63.5	80.0	79	53-113	5	30
Dimethyl Phthalate	8270D	66.0	80.0	83	70.2	80.0	88	51-112	6	30
Fluoranthene	8270D	70.6	80.0	88	74.4	80.0	93	66-127	6	30
Fluorene	8270D	60.8	80.0	76	65.1	80.0	81	54-106	6	30
Hexachlorobenzene	8270D	69.2	80.0	86	73.2	80.0	91	53-123	6	30
Hexachlorobutadiene	8270D	43.3	80.0	54	47.6	80.0	60	16-95	11	30
Hexachlorocyclopentadiene	8270D	14.5	80.0	18	18.2	80.0	23	10-99	24	30
Hexachloroethane	8270D	39.0	80.0	49	42.8	80.0	54	15-92	10	30
Indeno(1,2,3-cd)pyrene	8270D	62.9	80.0	79	68.6	80.0	86	62-137	8	30
Isophorone	8270D	46.0	80.0	57	47.6	80.0	60	50-116	5	30
N-Nitrosodi-n-propylamine	8270D	55.5	80.0	69	56.9	80.0	71	49-115	3	30
N-Nitrosodiphenylamine	8270D	74.5	80.0	93	82.0	80.0	102	45-123	9	30
Naphthalene	8270D	45.5	80.0	57	49.9	80.0	62	38-99	8	30
Nitrobenzene	8270D	49.9	80.0	62	49.9	80.0	62	46-108	<1	30
Pentachlorophenol (PCP)	8270D	58.4	80.0	73	61.3	80.0	77	29-164	5	30
Phenanthrene	8270D	62.0	80.0	78	66.7	80.0	83	58-118	6	30
Phenol	8270D	27.8	80.0	35	28.7	80.0	36	10-113	3	30
Pyrene	8270D	66.1	80.0	83	71.5	80.0	89	61-122	7	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005820

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-070620-SG-029	R2005820-002	51	63
WG-9954-070720-SG-031	R2005820-003	61	56
WG-9954-070720-SG-032	R2005820-004	66	63
WG-9954-070720-SG-030	R2005820-005	77	73
Method Blank	RQ2007347-01	63	65
Lab Control Sample	RQ2007347-02	56	58
Duplicate Lab Control Sample	RQ2007347-03	62	55

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007347-01

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Aldrin	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Dieldrin	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endrin	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Heptachlor	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
Toxaphene	0.50 U	0.50	0.50	1	07/13/20 14:42	7/10/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
beta-BHC	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
delta-BHC	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/13/20 14:42	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 164	07/13/20 14:42	
Tetrachloro-m-xylene	65	10 - 147	07/13/20 14:42	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/13/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2007347-02					Duplicate Lab Control Sample RQ2007347-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.303	0.400	76	0.342	0.400	86	42-159	12	30
4,4'-DDE	8081B	0.280	0.400	70	0.322	0.400	81	47-147	14	30
4,4'-DDT	8081B	0.309	0.400	77	0.353	0.400	88	41-149	13	30
Aldrin	8081B	0.236	0.400	59	0.234	0.400	59	22-137	<1	30
Dieldrin	8081B	0.307	0.400	77	0.346	0.400	86	52-144	12	30
Endosulfan I	8081B	0.296	0.400	74	0.329	0.400	82	52-136	11	30
Endosulfan II	8081B	0.236	0.400	59	0.283	0.400	71	57-138	18	30
Endosulfan Sulfate	8081B	0.267	0.400	67	0.310	0.400	78	34-156	15	30
Endrin	8081B	0.319	0.400	80	0.357	0.400	89	56-143	11	30
Endrin Ketone	8081B	0.301	0.400	75	0.346	0.400	87	59-143	14	30
Heptachlor	8081B	0.274	0.400	68	0.283	0.400	71	32-141	3	30
Heptachlor Epoxide	8081B	0.307	0.400	77	0.338	0.400	84	51-143	10	30
Methoxychlor	8081B	0.318	0.400	80	0.359	0.400	90	56-149	12	30
alpha-BHC	8081B	0.297	0.400	74	0.313	0.400	78	36-151	5	30
alpha-Chlordane	8081B	0.293	0.400	73	0.322	0.400	80	50-139	9	30
beta-BHC	8081B	0.315	0.400	79	0.341	0.400	85	55-149	8	30
delta-BHC	8081B	0.292	0.400	73	0.328	0.400	82	29-159	12	30
gamma-BHC (Lindane)	8081B	0.305	0.400	76	0.326	0.400	82	41-149	7	30
gamma-Chlordane	8081B	0.296	0.400	74	0.323	0.400	81	50-140	9	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005820

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-070620-SG-029	R2005820-002	50	54
WG-9954-070720-SG-031	R2005820-003	59	47
WG-9954-070720-SG-032	R2005820-004	63	52
WG-9954-070720-SG-030	R2005820-005	68	55
Method Blank	RQ2007347-01	69	59
Lab Control Sample	RQ2007347-02	70	48
Duplicate Lab Control Sample	RQ2007347-03	68	53

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007347-01

Service Request: R2005820
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/13/20 14:13	7/10/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/13/20 14:13	7/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 152	07/13/20 14:13	
Tetrachloro-m-xylene	59	14 - 129	07/13/20 14:13	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005820
Date Analyzed: 07/13/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2007347-02					RQ2007347-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	3.35	4.00	84	3.40	4.00	85	49-123	2	30
Aroclor 1260	8082A	3.98	4.00	100	3.79	4.00	95	30-120	5	30



July 30, 2020

Service Request No:R2005980

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd.,
Niagara Falls, NY 14304

Laboratory Results for: Love Canal:292-402-D02-3100

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory July 11, 2020
For your reference, these analyses have been assigned our service request number **R2005980**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100
Sample Matrix: Water

Service Request: R2005980
Date Received: 07/11/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 07/11/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/20/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 07/20/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Semivolatile GC:

Method 8081B, 07/15/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/16/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 07/16/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. 1260 went out high on front column of the Icsd. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8082A, 07/22/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC/MS:

Method 8260C, 07/21/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 687805: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 8260C, 688008: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Approved by



Date

07/30/2020

Method 8260C, 07/22/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 07/22/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by



Date

07/30/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070920-SG-033	Lab ID: R2005980-001
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	9.2	J	0.42	10	ug/L	8260C
Bis(2-ethylhexyl) Phthalate	3.9	J	0.91	9.1	ug/L	8270D
Di-n-butyl Phthalate	2.3	J	1.9	9.1	ug/L	8270D
alpha-BHC	0.12		0.019	0.045	ug/L	8081B
delta-BHC	0.088		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.15		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070920-SG-034	Lab ID: R2005980-002
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	160		2.1	50	ug/L	8260C
Naphthalene	1.2	J	1.1	9.1	ug/L	8270D
alpha-BHC	0.069		0.019	0.045	ug/L	8081B
delta-BHC	0.065		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.077		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070920-SG-035	Lab ID: R2005980-003
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon Disulfide	25	J	2.1	50	ug/L	8260C
alpha-BHC	0.072		0.019	0.045	ug/L	8081B
beta-BHC	0.019	J	0.019	0.045	ug/L	8081B
delta-BHC	0.19		0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.11		0.019	0.045	ug/L	8081B

CLIENT ID: WG-9954-070920-SG-036	Lab ID: R2005980-005
-----------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Bis(2-ethylhexyl) Phthalate	1.3	J	0.91	9.1	ug/L	8270D
Methoxychlor	0.041	J	0.019	0.045	ug/L	8081B
alpha-BHC	0.069		0.019	0.045	ug/L	8081B
delta-BHC	0.021	J	0.019	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.058		0.019	0.045	ug/L	8081B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request:R2005980

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2005980-001	WG-9954-070920-SG-033	7/9/2020	1225
R2005980-002	WG-9954-070920-SG-034	7/9/2020	1255
R2005980-003	WG-9954-070920-SG-035	7/9/2020	1315
R2005980-004	TB-9954-070920-SG-007	7/9/2020	0000
R2005980-005	WG-9954-070920-SG-036	7/9/2020	0815

EVENT COMPLETE

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Kathy Willy
806 96TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2866	Project Name: LOVE CANAL ANNUAL GW
Email: kathy.willy@ghd.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623	
ROCHESTER, NY 14623	
Laboratory Contact: BRADY KALKMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING 2020-07-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name: <i>S GARDNER, D TYRAN</i>	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	PestPCBs(None)	SVOC(none)	VOA(HCI)	Sample Condition		Remarks
								Temp in C		
								Received on ice	Y/N	
								Sealed Cooler	Y/N	
								Samples intact	Y/N	
WG-9954-070920-SG-033	WG	07/09/2020	12:25	2	2	3				
WG-9954-070920-SG-034	WG	07/09/2020	12:55	2	2	3				
WG-9954-070920-SG-035	WG	07/09/2020	13:15	2	2	3				
TB-9954-070920-SG-007	WG Q	07/09/2020	00:00	0	0	3				
WG-9954-071020-SG-036	WG	07/10/2020	08:15	2	2	3				
Total Bottles					8	8	16	Grand Total:31		

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
FedEx	1	<i>Shawn Gardner</i>	7/10/2020	13:00	<i>Shawn Gardner</i>	7/11/2020	09:05
AIRBILL#:							

R2005980

GHD Services Inc.
Love Canal: 292-402-002-3100

5



**ALS Environmental****CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM**

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 / FAX (585) 288-8475

www.alsglobal.com

SR#

004, 005, 006, 007, 008, 009, 010,
011, 012, 013**T030477**Project Name:
Love Canal:292-402-D02-3100Project Number:
9954 Annual Long Term MonitoringReport To
Kathy WillyCompany / Address
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls NY, 14304Phone #
716-297-2160FAX #
716-297-2265

Sampler Signature

Sampler Printed Name

NUMBER OF CONTAINERS

7D

14D

8081B / Pest OC

8082A / PCB

8270D / SVO

8260C / VOC FP

1

2

3

4

5

Remarks

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix														
1.			Liquid														
2.			Liquid														
3.			Liquid														
4.			Liquid														
5.			Liquid														
6.			Liquid														
7.			Liquid														
8.			Liquid														
9.			Liquid														
10.			Liquid														

Special Instructions/Comments:**Turnaround Requirements**

___ RUSH (SURCHARGES APPLY)

___ Standard (3 weeks)

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only

___ II. Results + QC Summaries (LCS,
DUP, MS/MSD as required)___ III. Results + QC and Calibration
Summaries☒ IV. Data Validation Report
with Raw Data

EData ___ Yes ___ No

Invoice Information

P.O.#

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form

R2005980

5

GHD Services Inc.
Love Canal 282-402-D02-3100Project/Client GHD

Folder Number _____

Cooler received on 7/11/2020by: SWCOURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N <input type="radio"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y <input type="radio"/> N <input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="radio"/> NA

3. Temperature Readings Date: 7/11/2020 Time: 0930 ID: IR# IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.30</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N
If <0°C, were samples frozen?	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N	Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
 & Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Freez by SW on 7/11/2020 at 0930
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y ☐ N ☐

Cooler Breakdown/Preservation Check**: Date: 7/13/2020 Time: 1351 by: SW

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
 10. Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
 11. Were correct containers used for the tests indicated? ☒ YES ☐ NO
 12. Were 5035 vials acceptable (no extra labels, not leaking)? ☒ YES ☐ NO
 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated ☒ N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
 Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: Client correct 051120-13MC

Explain all Discrepancies/ Other Comments:

* 2 vials, WG-9954-070920-SC-033
 3 vials, Trip Blank

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SW
 PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter
 Page 10 of 78



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005980

Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001
Sample Matrix: Water

Date Collected: 07/9/20
Date Received: 07/11/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002
Sample Matrix: Water

Date Collected: 07/9/20
Date Received: 07/11/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003
Sample Matrix: Water

Date Collected: 07/9/20
Date Received: 07/11/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: TB-9954-070920-SG-007
Lab Code: R2005980-004
Sample Matrix: Water

Date Collected: 07/9/20
Date Received: 07/11/20

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Service Request: R2005980

Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005
Sample Matrix: Water

Date Collected: 07/9/20
Date Received: 07/11/20

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/22/20 13:03	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/22/20 13:03	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/22/20 13:03	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/22/20 13:03	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/22/20 13:03	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/22/20 13:03	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/22/20 13:03	
2-Butanone (MEK)	10 U	10	0.78	1	07/22/20 13:03	
2-Hexanone	10 U	10	0.20	1	07/22/20 13:03	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/22/20 13:03	
Acetone	10 U	10	5.0	1	07/22/20 13:03	
Benzene	5.0 U	5.0	0.20	1	07/22/20 13:03	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/22/20 13:03	
Bromoform	5.0 U	5.0	0.25	1	07/22/20 13:03	
Bromomethane	5.0 U	5.0	0.70	1	07/22/20 13:03	
Carbon Disulfide	9.2 J	10	0.42	1	07/22/20 13:03	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/22/20 13:03	
Chlorobenzene	5.0 U	5.0	0.20	1	07/22/20 13:03	
Chloroethane	5.0 U	5.0	0.23	1	07/22/20 13:03	
Chloroform	5.0 U	5.0	0.24	1	07/22/20 13:03	
Chloromethane	5.0 U	5.0	0.28	1	07/22/20 13:03	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/22/20 13:03	
Dichloromethane	5.0 U	5.0	0.65	1	07/22/20 13:03	
Ethylbenzene	5.0 U	5.0	0.20	1	07/22/20 13:03	
Styrene	5.0 U	5.0	0.20	1	07/22/20 13:03	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/22/20 13:03	
Toluene	5.0 U	5.0	0.20	1	07/22/20 13:03	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/22/20 13:03	
Vinyl Acetate	10 U	10	1.1	1	07/22/20 13:03	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/22/20 13:03	
Xylenes, Total	5.0 U	5.0	0.23	1	07/22/20 13:03	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/22/20 13:03	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/22/20 13:03	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/22/20 13:03	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/22/20 13:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	07/22/20 13:03	
Dibromofluoromethane	101	89 - 119	07/22/20 13:03	
Toluene-d8	104	87 - 121	07/22/20 13:03	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000074-98-6	Propane	1.19	7.7	JN
000075-28-5	Isobutane	1.31	11.4	JN
	unknown	1.41	10.4	J
000074-93-1	Methanethiol	1.59	5.8	JN
000078-78-4	Butane, 2-methyl-	1.77	5.4	JN
003658-80-8	Trisulfide, dimethyl	11.47	9.9	JN
000124-19-6	Nonanal	12.69	7.0	JN
000075-18-3	Dimethyl sulfide	2.45	325.6	JN
000624-89-5	Ethane, (methylthio)-	4.32	25.8	JN
000624-92-0	Disulfide, dimethyl	8.09	33.4	JN
000066-25-1	Hexanal	9.24	10.3	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	25 U	25	1.0	5	07/22/20 13:24	
1,1,2,2-Tetrachloroethane	25 U	25	1.0	5	07/22/20 13:24	
1,1,2-Trichloroethane	25 U	25	1.0	5	07/22/20 13:24	
1,1-Dichloroethane (1,1-DCA)	25 U	25	1.0	5	07/22/20 13:24	
1,1-Dichloroethene (1,1-DCE)	25 U	25	1.0	5	07/22/20 13:24	
1,2-Dichloroethane	25 U	25	1.0	5	07/22/20 13:24	
1,2-Dichloropropane	25 U	25	1.0	5	07/22/20 13:24	
2-Butanone (MEK)	50 U	50	3.9	5	07/22/20 13:24	
2-Hexanone	50 U	50	1.0	5	07/22/20 13:24	
4-Methyl-2-pentanone	50 U	50	1.0	5	07/22/20 13:24	
Acetone	50 U	50	25	5	07/22/20 13:24	
Benzene	25 U	25	1.0	5	07/22/20 13:24	
Bromodichloromethane	25 U	25	1.0	5	07/22/20 13:24	
Bromoform	25 U	25	1.3	5	07/22/20 13:24	
Bromomethane	25 U	25	3.5	5	07/22/20 13:24	
Carbon Disulfide	160	50	2.1	5	07/22/20 13:24	
Carbon Tetrachloride	25 U	25	1.7	5	07/22/20 13:24	
Chlorobenzene	25 U	25	1.0	5	07/22/20 13:24	
Chloroethane	25 U	25	1.2	5	07/22/20 13:24	
Chloroform	25 U	25	1.2	5	07/22/20 13:24	
Chloromethane	25 U	25	1.4	5	07/22/20 13:24	
Dibromochloromethane	25 U	25	1.0	5	07/22/20 13:24	
Dichloromethane	25 U	25	3.3	5	07/22/20 13:24	
Ethylbenzene	25 U	25	1.0	5	07/22/20 13:24	
Styrene	25 U	25	1.0	5	07/22/20 13:24	
Tetrachloroethene (PCE)	25 U	25	1.1	5	07/22/20 13:24	
Toluene	25 U	25	1.0	5	07/22/20 13:24	
Trichloroethene (TCE)	25 U	25	1.0	5	07/22/20 13:24	
Vinyl Acetate	50 U	50	5.5	5	07/22/20 13:24	
Vinyl Chloride	25 U	25	1.0	5	07/22/20 13:24	
Xylenes, Total	25 U	25	1.2	5	07/22/20 13:24	
cis-1,2-Dichloroethene	25 U	25	1.2	5	07/22/20 13:24	
cis-1,3-Dichloropropene	25 U	25	1.0	5	07/22/20 13:24	
trans-1,2-Dichloroethene	25 U	25	1.0	5	07/22/20 13:24	
trans-1,3-Dichloropropene	25 U	25	1.2	5	07/22/20 13:24	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	07/22/20 13:24	
Dibromofluoromethane	102	89 - 119	07/22/20 13:24	
Toluene-d8	105	87 - 121	07/22/20 13:24	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	213.2	JN
000074-93-1	Methanethiol	1.59	78.0	JN
000075-18-3	Dimethyl sulfide	2.45	594.4	JN
000624-89-5	Ethane, (methylthio)-	4.32	50.8	JN
000624-92-0	Disulfide, dimethyl	8.09	45.7	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	25 U	25	1.0	5	07/21/20 16:17	
1,1,2,2-Tetrachloroethane	25 U	25	1.0	5	07/21/20 16:17	
1,1,2-Trichloroethane	25 U	25	1.0	5	07/21/20 16:17	
1,1-Dichloroethane (1,1-DCA)	25 U	25	1.0	5	07/21/20 16:17	
1,1-Dichloroethene (1,1-DCE)	25 U	25	1.0	5	07/21/20 16:17	
1,2-Dichloroethane	25 U	25	1.0	5	07/21/20 16:17	
1,2-Dichloropropane	25 U	25	1.0	5	07/21/20 16:17	
2-Butanone (MEK)	50 U	50	3.9	5	07/21/20 16:17	
2-Hexanone	50 U	50	1.0	5	07/21/20 16:17	
4-Methyl-2-pentanone	50 U	50	1.0	5	07/21/20 16:17	
Acetone	50 U	50	25	5	07/21/20 16:17	
Benzene	25 U	25	1.0	5	07/21/20 16:17	
Bromodichloromethane	25 U	25	1.0	5	07/21/20 16:17	
Bromoform	25 U	25	1.3	5	07/21/20 16:17	
Bromomethane	25 U	25	3.5	5	07/21/20 16:17	
Carbon Disulfide	25 J	50	2.1	5	07/21/20 16:17	
Carbon Tetrachloride	25 U	25	1.7	5	07/21/20 16:17	
Chlorobenzene	25 U	25	1.0	5	07/21/20 16:17	
Chloroethane	25 U	25	1.2	5	07/21/20 16:17	
Chloroform	25 U	25	1.2	5	07/21/20 16:17	
Chloromethane	25 U	25	1.4	5	07/21/20 16:17	
Dibromochloromethane	25 U	25	1.0	5	07/21/20 16:17	
Dichloromethane	25 U	25	3.3	5	07/21/20 16:17	
Ethylbenzene	25 U	25	1.0	5	07/21/20 16:17	
Styrene	25 U	25	1.0	5	07/21/20 16:17	
Tetrachloroethene (PCE)	25 U	25	1.1	5	07/21/20 16:17	
Toluene	25 U	25	1.0	5	07/21/20 16:17	
Trichloroethene (TCE)	25 U	25	1.0	5	07/21/20 16:17	
Vinyl Acetate	50 U	50	5.5	5	07/21/20 16:17	
Vinyl Chloride	25 U	25	1.0	5	07/21/20 16:17	
Xylenes, Total	25 U	25	1.2	5	07/21/20 16:17	
cis-1,2-Dichloroethene	25 U	25	1.2	5	07/21/20 16:17	
cis-1,3-Dichloropropene	25 U	25	1.0	5	07/21/20 16:17	
trans-1,2-Dichloroethene	25 U	25	1.0	5	07/21/20 16:17	
trans-1,3-Dichloropropene	25 U	25	1.2	5	07/21/20 16:17	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	07/21/20 16:17	
Dibromofluoromethane	103	89 - 119	07/21/20 16:17	
Toluene-d8	103	87 - 121	07/21/20 16:17	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.32	1552.5	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070920-SG-007
Lab Code: R2005980-004

Service Request: R2005980
Date Collected: 07/09/20 00:00
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/21/20 15:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/21/20 15:34	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/21/20 15:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/21/20 15:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/21/20 15:34	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/21/20 15:34	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/21/20 15:34	
2-Butanone (MEK)	10 U	10	0.78	1	07/21/20 15:34	
2-Hexanone	10 U	10	0.20	1	07/21/20 15:34	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/21/20 15:34	
Acetone	10 U	10	5.0	1	07/21/20 15:34	
Benzene	5.0 U	5.0	0.20	1	07/21/20 15:34	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/21/20 15:34	
Bromoform	5.0 U	5.0	0.25	1	07/21/20 15:34	
Bromomethane	5.0 U	5.0	0.70	1	07/21/20 15:34	
Carbon Disulfide	10 U	10	0.42	1	07/21/20 15:34	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/21/20 15:34	
Chlorobenzene	5.0 U	5.0	0.20	1	07/21/20 15:34	
Chloroethane	5.0 U	5.0	0.23	1	07/21/20 15:34	
Chloroform	5.0 U	5.0	0.24	1	07/21/20 15:34	
Chloromethane	5.0 U	5.0	0.28	1	07/21/20 15:34	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/21/20 15:34	
Dichloromethane	5.0 U	5.0	0.65	1	07/21/20 15:34	
Ethylbenzene	5.0 U	5.0	0.20	1	07/21/20 15:34	
Styrene	5.0 U	5.0	0.20	1	07/21/20 15:34	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/21/20 15:34	
Toluene	5.0 U	5.0	0.20	1	07/21/20 15:34	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/21/20 15:34	
Vinyl Acetate	10 U	10	1.1	1	07/21/20 15:34	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/21/20 15:34	
Xylenes, Total	5.0 U	5.0	0.23	1	07/21/20 15:34	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/21/20 15:34	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/21/20 15:34	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/21/20 15:34	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/21/20 15:34	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070920-SG-007
Lab Code: R2005980-004

Service Request: R2005980
Date Collected: 07/09/20 00:00
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	07/21/20 15:34	
Dibromofluoromethane	97	89 - 119	07/21/20 15:34	
Toluene-d8	102	87 - 121	07/21/20 15:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Monitoring
Sample Matrix: Water
Sample Name: TB-9954-070920-SG-007
Lab Code: R2005980-004

Service Request: R2005980
Date Collected: 07/09/20 00:00
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/21/20 15:55	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/21/20 15:55	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/21/20 15:55	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/21/20 15:55	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/21/20 15:55	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/21/20 15:55	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/21/20 15:55	
2-Butanone (MEK)	10 U	10	0.78	1	07/21/20 15:55	
2-Hexanone	10 U	10	0.20	1	07/21/20 15:55	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/21/20 15:55	
Acetone	10 U	10	5.0	1	07/21/20 15:55	
Benzene	5.0 U	5.0	0.20	1	07/21/20 15:55	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/21/20 15:55	
Bromoform	5.0 U	5.0	0.25	1	07/21/20 15:55	
Bromomethane	5.0 U	5.0	0.70	1	07/21/20 15:55	
Carbon Disulfide	10 U	10	0.42	1	07/21/20 15:55	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/21/20 15:55	
Chlorobenzene	5.0 U	5.0	0.20	1	07/21/20 15:55	
Chloroethane	5.0 U	5.0	0.23	1	07/21/20 15:55	
Chloroform	5.0 U	5.0	0.24	1	07/21/20 15:55	
Chloromethane	5.0 U	5.0	0.28	1	07/21/20 15:55	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/21/20 15:55	
Dichloromethane	5.0 U	5.0	0.65	1	07/21/20 15:55	
Ethylbenzene	5.0 U	5.0	0.20	1	07/21/20 15:55	
Styrene	5.0 U	5.0	0.20	1	07/21/20 15:55	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/21/20 15:55	
Toluene	5.0 U	5.0	0.20	1	07/21/20 15:55	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/21/20 15:55	
Vinyl Acetate	10 U	10	1.1	1	07/21/20 15:55	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/21/20 15:55	
Xylenes, Total	5.0 U	5.0	0.23	1	07/21/20 15:55	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/21/20 15:55	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/21/20 15:55	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/21/20 15:55	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/21/20 15:55	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/21/20 15:55	
Dibromofluoromethane	99	89 - 119	07/21/20 15:55	
Toluene-d8	100	87 - 121	07/21/20 15:55	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/20/20 15:12	7/15/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/20/20 15:12	7/15/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
2,4-Dinitrophenol	45 U	45	19	1	07/20/20 15:12	7/15/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/20/20 15:12	7/15/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/20/20 15:12	7/15/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/20/20 15:12	7/15/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/20/20 15:12	7/15/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/20/20 15:12	7/15/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/20/20 15:12	7/15/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/20/20 15:12	7/15/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/20/20 15:12	7/15/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/20/20 15:12	7/15/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/20/20 15:12	7/15/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/20/20 15:12	7/15/20	
4-Nitrophenol	45 U	45	5.8	1	07/20/20 15:12	7/15/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
Anthracene	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/20/20 15:12	7/15/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/20/20 15:12	7/15/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
Benzoic Acid	91 U	91	33	1	07/20/20 15:12	7/15/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/20/20 15:12	7/15/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/20/20 15:12	7/15/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
Bis(2-ethylhexyl) Phthalate	3.9 J	9.1	0.91	1	07/20/20 15:12	7/15/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
Chrysene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	2.3 J	9.1	1.9	1	07/20/20 15:12	7/15/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/20/20 15:12	7/15/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/20/20 15:12	7/15/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/20/20 15:12	7/15/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/20/20 15:12	7/15/20	
Fluorene	9.1 U	9.1	1.2	1	07/20/20 15:12	7/15/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/20/20 15:12	7/15/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/20/20 15:12	7/15/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/20/20 15:12	7/15/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/20/20 15:12	7/15/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/20/20 15:12	7/15/20	
Isophorone	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/20/20 15:12	7/15/20	
Naphthalene	9.1 U	9.1	1.1	1	07/20/20 15:12	7/15/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/20/20 15:12	7/15/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/20/20 15:12	7/15/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	
Phenol	9.1 U	9.1	0.91	1	07/20/20 15:12	7/15/20	
Pyrene	9.1 U	9.1	1.3	1	07/20/20 15:12	7/15/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	35 - 141	07/20/20 15:12	
2-Fluorobiphenyl	66	31 - 118	07/20/20 15:12	
2-Fluorophenol	53	10 - 105	07/20/20 15:12	
Nitrobenzene-d5	68	31 - 110	07/20/20 15:12	
Phenol-d6	47	10 - 107	07/20/20 15:12	
p-Terphenyl-d14	55	10 - 165	07/20/20 15:12	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.34	4.3	J
	unknown	11.87	7.2	J
	unknown hydrocarbon	12.47	9.5	J
	unknown hydrocarbon	13.11	10	J
	unknown hydrocarbon	13.81	8.6	J
	unknown hydrocarbon	14.56	10	J
	unknown hydrocarbon	15.34	7.1	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000624-92-0	unknown hydrocarbon	16.10	11	J
	Disulfide, dimethyl	2.47	21	JN
	unknown	6.08	4.0	J
013798-23-7	Sulfur	7.74	8.7	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/20/20 15:40	7/15/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/20/20 15:40	7/15/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
2,4-Dinitrophenol	45 U	45	19	1	07/20/20 15:40	7/15/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/20/20 15:40	7/15/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/20/20 15:40	7/15/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/20/20 15:40	7/15/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/20/20 15:40	7/15/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/20/20 15:40	7/15/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/20/20 15:40	7/15/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/20/20 15:40	7/15/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/20/20 15:40	7/15/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/20/20 15:40	7/15/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/20/20 15:40	7/15/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/20/20 15:40	7/15/20	
4-Nitrophenol	45 U	45	5.8	1	07/20/20 15:40	7/15/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
Anthracene	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/20/20 15:40	7/15/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/20/20 15:40	7/15/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
Benzoic Acid	91 U	91	33	1	07/20/20 15:40	7/15/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/20/20 15:40	7/15/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/20/20 15:40	7/15/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/20/20 15:40	7/15/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
Chrysene	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/20/20 15:40	7/15/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/20/20 15:40	7/15/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/20/20 15:40	7/15/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/20/20 15:40	7/15/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/20/20 15:40	7/15/20	
Fluorene	9.1 U	9.1	1.2	1	07/20/20 15:40	7/15/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/20/20 15:40	7/15/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/20/20 15:40	7/15/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/20/20 15:40	7/15/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/20/20 15:40	7/15/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/20/20 15:40	7/15/20	
Isophorone	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/20/20 15:40	7/15/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/20/20 15:40	7/15/20	
Naphthalene	1.2 J	9.1	1.1	1	07/20/20 15:40	7/15/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/20/20 15:40	7/15/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/20/20 15:40	7/15/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	
Phenol	9.1 U	9.1	0.91	1	07/20/20 15:40	7/15/20	
Pyrene	9.1 U	9.1	1.3	1	07/20/20 15:40	7/15/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	35 - 141	07/20/20 15:40	
2-Fluorobiphenyl	69	31 - 118	07/20/20 15:40	
2-Fluorophenol	56	10 - 105	07/20/20 15:40	
Nitrobenzene-d5	67	31 - 110	07/20/20 15:40	
Phenol-d6	60	10 - 107	07/20/20 15:40	
p-Terphenyl-d14	56	10 - 165	07/20/20 15:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.87	3.7	J
	unknown hydrocarbon	12.46	4.5	J
	unknown hydrocarbon	13.11	5.0	J
	unknown hydrocarbon	13.81	3.7	J
000624-92-0	Disulfide, dimethyl	2.47	24	JN
	unknown	3.81	3.8	J
005756-24-1	Tetrasulfide, dimethyl	5.95	190	JN

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/20/20 16:09	7/15/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/20/20 16:09	7/15/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
2,4-Dinitrophenol	45 U	45	19	1	07/20/20 16:09	7/15/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/20/20 16:09	7/15/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/20/20 16:09	7/15/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/20/20 16:09	7/15/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/20/20 16:09	7/15/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/20/20 16:09	7/15/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/20/20 16:09	7/15/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/20/20 16:09	7/15/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/20/20 16:09	7/15/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/20/20 16:09	7/15/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/20/20 16:09	7/15/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/20/20 16:09	7/15/20	
4-Nitrophenol	45 U	45	5.8	1	07/20/20 16:09	7/15/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
Anthracene	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/20/20 16:09	7/15/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/20/20 16:09	7/15/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
Benzoic Acid	91 U	91	33	1	07/20/20 16:09	7/15/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/20/20 16:09	7/15/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/20/20 16:09	7/15/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	0.91	1	07/20/20 16:09	7/15/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
Chrysene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/20/20 16:09	7/15/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/20/20 16:09	7/15/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/20/20 16:09	7/15/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/20/20 16:09	7/15/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/20/20 16:09	7/15/20	
Fluorene	9.1 U	9.1	1.2	1	07/20/20 16:09	7/15/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/20/20 16:09	7/15/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/20/20 16:09	7/15/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/20/20 16:09	7/15/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/20/20 16:09	7/15/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/20/20 16:09	7/15/20	
Isophorone	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/20/20 16:09	7/15/20	
Naphthalene	9.1 U	9.1	1.1	1	07/20/20 16:09	7/15/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/20/20 16:09	7/15/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/20/20 16:09	7/15/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	
Phenol	9.1 U	9.1	0.91	1	07/20/20 16:09	7/15/20	
Pyrene	9.1 U	9.1	1.3	1	07/20/20 16:09	7/15/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	35 - 141	07/20/20 16:09	
2-Fluorobiphenyl	51	31 - 118	07/20/20 16:09	
2-Fluorophenol	33	10 - 105	07/20/20 16:09	
Nitrobenzene-d5	55	31 - 110	07/20/20 16:09	
Phenol-d6	23	10 - 107	07/20/20 16:09	
p-Terphenyl-d14	46	10 - 165	07/20/20 16:09	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	11.87	4.6	J
	unknown hydrocarbon	12.47	6.3	J
	unknown	13.11	7.0	J
	unknown hydrocarbon	13.81	5.9	J
	unknown hydrocarbon	14.56	5.6	J
	unknown hydrocarbon	15.34	4.1	J

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
1,2-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
1,3-Dichlorobenzene	9.1 U	9.1	0.92	1	07/20/20 16:37	7/15/20	
1,4-Dichlorobenzene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
2,4,5-Trichlorophenol	9.1 U	9.1	0.99	1	07/20/20 16:37	7/15/20	
2,4,6-Trichlorophenol	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
2,4-Dichlorophenol	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
2,4-Dimethylphenol	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
2,4-Dinitrophenol	45 U	45	19	1	07/20/20 16:37	7/15/20	
2,4-Dinitrotoluene	9.1 U	9.1	2.2	1	07/20/20 16:37	7/15/20	
2,6-Dinitrotoluene	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
2-Chloronaphthalene	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
2-Chlorophenol	9.1 U	9.1	0.97	1	07/20/20 16:37	7/15/20	
2-Methylnaphthalene	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
2-Methylphenol	9.1 U	9.1	0.91	1	07/20/20 16:37	7/15/20	
2-Nitroaniline	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
2-Nitrophenol	9.1 U	9.1	1.4	1	07/20/20 16:37	7/15/20	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
3-Nitroaniline	9.1 U	9.1	2.3	1	07/20/20 16:37	7/15/20	
4,6-Dinitro-2-methylphenol	45 U	45	18	1	07/20/20 16:37	7/15/20	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/20/20 16:37	7/15/20	
4-Chloro-3-methylphenol	9.1 U	9.1	0.98	1	07/20/20 16:37	7/15/20	
4-Chloroaniline	9.1 U	9.1	0.91	1	07/20/20 16:37	7/15/20	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.4	1	07/20/20 16:37	7/15/20	
4-Nitroaniline	9.1 U	9.1	2.5	1	07/20/20 16:37	7/15/20	
4-Nitrophenol	45 U	45	5.8	1	07/20/20 16:37	7/15/20	
Acenaphthene	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
Acenaphthylene	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
Anthracene	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
Benz(a)anthracene	9.1 U	9.1	1.5	1	07/20/20 16:37	7/15/20	
Benzo(a)pyrene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
Benzo(b)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
Benzo(g,h,i)perylene	9.1 U	9.1	0.91	1	07/20/20 16:37	7/15/20	
Benzo(k)fluoranthene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
Benzoic Acid	91 U	91	33	1	07/20/20 16:37	7/15/20	
Benzyl Alcohol	9.1 U	9.1	1.5	1	07/20/20 16:37	7/15/20	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.8	1	07/20/20 16:37	7/15/20	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
Bis(2-ethylhexyl) Phthalate	1.3 J	9.1	0.91	1	07/20/20 16:37	7/15/20	
Butyl Benzyl Phthalate	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
Chrysene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.1 U	9.1	1.9	1	07/20/20 16:37	7/15/20	
Di-n-octyl Phthalate	9.1 U	9.1	3.0	1	07/20/20 16:37	7/15/20	
Dibenz(a,h)anthracene	9.1 U	9.1	0.93	1	07/20/20 16:37	7/15/20	
Dibenzofuran	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
Diethyl Phthalate	9.1 U	9.1	0.98	1	07/20/20 16:37	7/15/20	
Dimethyl Phthalate	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
Fluoranthene	9.1 U	9.1	1.4	1	07/20/20 16:37	7/15/20	
Fluorene	9.1 U	9.1	1.2	1	07/20/20 16:37	7/15/20	
Hexachlorobenzene	9.1 U	9.1	1.4	1	07/20/20 16:37	7/15/20	
Hexachlorobutadiene	9.1 U	9.1	0.91	1	07/20/20 16:37	7/15/20	
Hexachlorocyclopentadiene	9.1 U	9.1	2.0	1	07/20/20 16:37	7/15/20	
Hexachloroethane	9.1 U	9.1	0.96	1	07/20/20 16:37	7/15/20	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.6	1	07/20/20 16:37	7/15/20	
Isophorone	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
N-Nitrosodiphenylamine	9.1 U	9.1	2.4	1	07/20/20 16:37	7/15/20	
Naphthalene	9.1 U	9.1	1.1	1	07/20/20 16:37	7/15/20	
Nitrobenzene	9.1 U	9.1	1.4	1	07/20/20 16:37	7/15/20	
Pentachlorophenol (PCP)	45 U	45	8.9	1	07/20/20 16:37	7/15/20	
Phenanthrene	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	
Phenol	9.1 U	9.1	0.91	1	07/20/20 16:37	7/15/20	
Pyrene	9.1 U	9.1	1.3	1	07/20/20 16:37	7/15/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	69	35 - 141	07/20/20 16:37	
2-Fluorobiphenyl	56	31 - 118	07/20/20 16:37	
2-Fluorophenol	40	10 - 105	07/20/20 16:37	
Nitrobenzene-d5	59	31 - 110	07/20/20 16:37	
Phenol-d6	28	10 - 107	07/20/20 16:37	
p-Terphenyl-d14	53	10 - 165	07/20/20 16:37	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Aldrin	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Dieldrin	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Endrin	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Heptachlor	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
Toxaphene	0.46 U	0.46	0.46	1	07/15/20 15:26	7/14/20	
alpha-BHC	0.12	0.045	0.019	1	07/15/20 15:26	7/14/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
beta-BHC	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	
delta-BHC	0.088	0.045	0.019	1	07/15/20 15:26	7/14/20	
gamma-BHC (Lindane)	0.15	0.045	0.019	1	07/15/20 15:26	7/14/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/15/20 15:26	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 164	07/15/20 15:26	
Tetrachloro-m-xylene	59	10 - 147	07/15/20 15:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Aldrin	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Dieldrin	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Endrin	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Heptachlor	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
Toxaphene	0.46 U	0.46	0.46	1	07/25/20 00:02	7/14/20	
alpha-BHC	0.069	0.045	0.019	1	07/25/20 00:02	7/14/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
beta-BHC	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	
delta-BHC	0.065	0.045	0.019	1	07/25/20 00:02	7/14/20	
gamma-BHC (Lindane)	0.077	0.045	0.019	1	07/25/20 00:02	7/14/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/25/20 00:02	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 164	07/25/20 00:02	
Tetrachloro-m-xylene	62	10 - 147	07/25/20 00:02	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Aldrin	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Dieldrin	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Endrin	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Heptachlor	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Methoxychlor	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
Toxaphene	0.46 U	0.46	0.46	1	07/25/20 00:21	7/14/20	
alpha-BHC	0.072	0.045	0.019	1	07/25/20 00:21	7/14/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	
beta-BHC	0.019 J	0.045	0.019	1	07/25/20 00:21	7/14/20	
delta-BHC	0.19	0.045	0.019	1	07/25/20 00:21	7/14/20	
gamma-BHC (Lindane)	0.11	0.045	0.019	1	07/25/20 00:21	7/14/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/25/20 00:21	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 164	07/25/20 00:21	
Tetrachloro-m-xylene	52	10 - 147	07/25/20 00:21	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
4,4'-DDE	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
4,4'-DDT	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Aldrin	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Dieldrin	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Endosulfan I	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Endosulfan II	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Endosulfan Sulfate	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Endrin	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Endrin Ketone	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Heptachlor	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Heptachlor Epoxide	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
Methoxychlor	0.041 J	0.045	0.019	1	07/15/20 16:24	7/14/20	
Toxaphene	0.46 U	0.46	0.46	1	07/15/20 16:24	7/14/20	
alpha-BHC	0.069	0.045	0.019	1	07/15/20 16:24	7/14/20	
alpha-Chlordane	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
beta-BHC	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	
delta-BHC	0.021 J	0.045	0.019	1	07/15/20 16:24	7/14/20	
gamma-BHC (Lindane)	0.058	0.045	0.019	1	07/15/20 16:24	7/14/20	
gamma-Chlordane	0.045 U	0.045	0.019	1	07/15/20 16:24	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 164	07/15/20 16:24	
Tetrachloro-m-xylene	61	10 - 147	07/15/20 16:24	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-033
Lab Code: R2005980-001

Service Request: R2005980
Date Collected: 07/09/20 12:25
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/22/20 16:41	7/14/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/22/20 16:41	7/14/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/22/20 16:41	7/14/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/22/20 16:41	7/14/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/22/20 16:41	7/14/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/22/20 16:41	7/14/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/22/20 16:41	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	22	10 - 152	07/22/20 16:41	
Tetrachloro-m-xylene	45	14 - 129	07/22/20 16:41	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-034
Lab Code: R2005980-002

Service Request: R2005980
Date Collected: 07/09/20 12:55
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/22/20 17:01	7/14/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/22/20 17:01	7/14/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/22/20 17:01	7/14/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/22/20 17:01	7/14/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/22/20 17:01	7/14/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/22/20 17:01	7/14/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/22/20 17:01	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	55	10 - 152	07/22/20 17:01	
Tetrachloro-m-xylene	45	14 - 129	07/22/20 17:01	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-035
Lab Code: R2005980-003

Service Request: R2005980
Date Collected: 07/09/20 13:15
Date Received: 07/11/20 09:05
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/22/20 17:21	7/14/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/22/20 17:21	7/14/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/22/20 17:21	7/14/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/22/20 17:21	7/14/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/22/20 17:21	7/14/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/22/20 17:21	7/14/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/22/20 17:21	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	41	10 - 152	07/22/20 17:21	
Tetrachloro-m-xylene	47	14 - 129	07/22/20 17:21	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: WG-9954-070920-SG-036
Lab Code: R2005980-005

Service Request: R2005980
Date Collected: 07/09/20 08:15
Date Received: 07/11/20 13:09
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.91 U	0.91	0.46	1	07/16/20 17:02	7/14/20	
Aroclor 1221	1.8 U	1.8	0.91	1	07/16/20 17:02	7/14/20	
Aroclor 1232	0.91 U	0.91	0.46	1	07/16/20 17:02	7/14/20	
Aroclor 1242	0.91 U	0.91	0.46	1	07/16/20 17:02	7/14/20	
Aroclor 1248	0.91 U	0.91	0.46	1	07/16/20 17:02	7/14/20	
Aroclor 1254	0.91 U	0.91	0.46	1	07/16/20 17:02	7/14/20	
Aroclor 1260	0.91 U	0.91	0.46	1	07/16/20 17:02	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 152	07/16/20 17:02	
Tetrachloro-m-xylene	49	14 - 129	07/16/20 17:02	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005980

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
WG-9954-070920-SG-033	R2005980-001	96	101	104
WG-9954-070920-SG-034	R2005980-002	96	102	105
WG-9954-070920-SG-035	R2005980-003	97	103	103
TB-9954-070920-SG-007	R2005980-004	96	97	102
WG-9954-070920-SG-036	R2005980-005	93	99	100
Method Blank	RQ2007864-04	93	101	103
Method Blank	RQ2007931-04	93	99	102
Lab Control Sample	RQ2007864-03	99	101	103
Lab Control Sample	RQ2007931-03	98	101	102

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007864-04

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/21/20 12:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/21/20 12:31	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/21/20 12:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/21/20 12:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/21/20 12:31	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/21/20 12:31	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/21/20 12:31	
2-Butanone (MEK)	10 U	10	0.78	1	07/21/20 12:31	
2-Hexanone	10 U	10	0.20	1	07/21/20 12:31	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/21/20 12:31	
Acetone	10 U	10	5.0	1	07/21/20 12:31	
Benzene	5.0 U	5.0	0.20	1	07/21/20 12:31	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/21/20 12:31	
Bromoform	5.0 U	5.0	0.25	1	07/21/20 12:31	
Bromomethane	5.0 U	5.0	0.70	1	07/21/20 12:31	
Carbon Disulfide	10 U	10	0.42	1	07/21/20 12:31	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/21/20 12:31	
Chlorobenzene	5.0 U	5.0	0.20	1	07/21/20 12:31	
Chloroethane	5.0 U	5.0	0.23	1	07/21/20 12:31	
Chloroform	5.0 U	5.0	0.24	1	07/21/20 12:31	
Chloromethane	5.0 U	5.0	0.28	1	07/21/20 12:31	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/21/20 12:31	
Dichloromethane	5.0 U	5.0	0.65	1	07/21/20 12:31	
Ethylbenzene	5.0 U	5.0	0.20	1	07/21/20 12:31	
Styrene	5.0 U	5.0	0.20	1	07/21/20 12:31	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/21/20 12:31	
Toluene	5.0 U	5.0	0.20	1	07/21/20 12:31	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/21/20 12:31	
Vinyl Acetate	10 U	10	1.1	1	07/21/20 12:31	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/21/20 12:31	
Xylenes, Total	5.0 U	5.0	0.23	1	07/21/20 12:31	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/21/20 12:31	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/21/20 12:31	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/21/20 12:31	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/21/20 12:31	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007864-04

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/21/20 12:31	
Dibromofluoromethane	101	89 - 119	07/21/20 12:31	
Toluene-d8	103	87 - 121	07/21/20 12:31	

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007864-04

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007931-04

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	07/22/20 12:26	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	07/22/20 12:26	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	07/22/20 12:26	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/22/20 12:26	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	07/22/20 12:26	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	07/22/20 12:26	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/22/20 12:26	
2-Butanone (MEK)	10 U	10	0.78	1	07/22/20 12:26	
2-Hexanone	10 U	10	0.20	1	07/22/20 12:26	
4-Methyl-2-pentanone	10 U	10	0.20	1	07/22/20 12:26	
Acetone	10 U	10	5.0	1	07/22/20 12:26	
Benzene	5.0 U	5.0	0.20	1	07/22/20 12:26	
Bromodichloromethane	5.0 U	5.0	0.20	1	07/22/20 12:26	
Bromoform	5.0 U	5.0	0.25	1	07/22/20 12:26	
Bromomethane	5.0 U	5.0	0.70	1	07/22/20 12:26	
Carbon Disulfide	10 U	10	0.42	1	07/22/20 12:26	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	07/22/20 12:26	
Chlorobenzene	5.0 U	5.0	0.20	1	07/22/20 12:26	
Chloroethane	5.0 U	5.0	0.23	1	07/22/20 12:26	
Chloroform	5.0 U	5.0	0.24	1	07/22/20 12:26	
Chloromethane	5.0 U	5.0	0.28	1	07/22/20 12:26	
Dibromochloromethane	5.0 U	5.0	0.20	1	07/22/20 12:26	
Dichloromethane	5.0 U	5.0	0.65	1	07/22/20 12:26	
Ethylbenzene	5.0 U	5.0	0.20	1	07/22/20 12:26	
Styrene	5.0 U	5.0	0.20	1	07/22/20 12:26	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	07/22/20 12:26	
Toluene	5.0 U	5.0	0.20	1	07/22/20 12:26	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	07/22/20 12:26	
Vinyl Acetate	10 U	10	1.1	1	07/22/20 12:26	
Vinyl Chloride	5.0 U	5.0	0.20	1	07/22/20 12:26	
Xylenes, Total	5.0 U	5.0	0.23	1	07/22/20 12:26	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	07/22/20 12:26	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/22/20 12:26	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	07/22/20 12:26	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	07/22/20 12:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007931-04

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	07/22/20 12:26	
Dibromofluoromethane	99	89 - 119	07/22/20 12:26	
Toluene-d8	102	87 - 121	07/22/20 12:26	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007931-04

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.62	5.7	J

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/21/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007864-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.4	20.0	92	75-125
1,1,2,2-Tetrachloroethane	8260C	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	19.7	20.0	98	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.8	20.0	94	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.3	20.0	106	71-118
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	20.3	20.0	102	80-119
2-Butanone (MEK)	8260C	19.7	20.0	99	61-137
2-Hexanone	8260C	17.0	20.0	85	63-124
4-Methyl-2-pentanone	8260C	18.2	20.0	91	66-124
Acetone	8260C	20.3	20.0	101	40-161
Benzene	8260C	20.0	20.0	100	79-119
Bromodichloromethane	8260C	19.6	20.0	98	81-123
Bromoform	8260C	18.4	20.0	92	65-146
Bromomethane	8260C	15.6	20.0	78	42-166
Carbon Disulfide	8260C	20.8	20.0	104	66-128
Carbon Tetrachloride	8260C	18.4	20.0	92	70-127
Chlorobenzene	8260C	18.9	20.0	94	80-121
Chloroethane	8260C	19.5	20.0	98	62-131
Chloroform	8260C	19.3	20.0	97	79-120
Chloromethane	8260C	21.8	20.0	109	65-135
Dibromochloromethane	8260C	19.5	20.0	97	72-128
Dichloromethane	8260C	19.0	20.0	95	73-122
Ethylbenzene	8260C	18.8	20.0	94	76-120
Styrene	8260C	19.3	20.0	97	80-124
Tetrachloroethene (PCE)	8260C	17.9	20.0	89	72-125
Toluene	8260C	19.7	20.0	99	79-119
Trichloroethene (TCE)	8260C	17.6	20.0	88	74-122
Vinyl Acetate	8260C	27.8	20.0	139	52-174
Vinyl Chloride	8260C	21.3	20.0	106	74-159
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	80-121
cis-1,3-Dichloropropene	8260C	18.5	20.0	92	77-122
trans-1,2-Dichloroethene	8260C	20.6	20.0	103	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/21/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007864-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	18.6	20.0	93	71-133

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/22/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007931-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.2	20.0	106	75-125
1,1,2,2-Tetrachloroethane	8260C	21.9	20.0	110	78-126
1,1,2-Trichloroethane	8260C	20.6	20.0	103	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.6	20.0	108	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.6	20.0	123 *	71-118
1,2-Dichloroethane	8260C	19.5	20.0	98	71-127
1,2-Dichloropropane	8260C	21.1	20.0	105	80-119
2-Butanone (MEK)	8260C	20.6	20.0	103	61-137
2-Hexanone	8260C	18.9	20.0	94	63-124
4-Methyl-2-pentanone	8260C	19.6	20.0	98	66-124
Acetone	8260C	21.9	20.0	109	40-161
Benzene	8260C	21.1	20.0	106	79-119
Bromodichloromethane	8260C	19.8	20.0	99	81-123
Bromoform	8260C	19.1	20.0	96	65-146
Bromomethane	8260C	17.2	20.0	86	42-166
Carbon Disulfide	8260C	22.2	20.0	111	66-128
Carbon Tetrachloride	8260C	21.2	20.0	106	70-127
Chlorobenzene	8260C	20.8	20.0	104	80-121
Chloroethane	8260C	23.7	20.0	119	62-131
Chloroform	8260C	20.3	20.0	102	79-120
Chloromethane	8260C	24.7	20.0	124	65-135
Dibromochloromethane	8260C	20.5	20.0	102	72-128
Dichloromethane	8260C	21.2	20.0	106	73-122
Ethylbenzene	8260C	21.2	20.0	106	76-120
Styrene	8260C	20.9	20.0	105	80-124
Tetrachloroethene (PCE)	8260C	20.7	20.0	104	72-125
Toluene	8260C	21.2	20.0	106	79-119
Trichloroethene (TCE)	8260C	19.8	20.0	99	74-122
Vinyl Acetate	8260C	32.1	20.0	160	52-174
Vinyl Chloride	8260C	25.4	20.0	127	74-159
cis-1,2-Dichloroethene	8260C	20.9	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	19.4	20.0	97	77-122
trans-1,2-Dichloroethene	8260C	23.9	20.0	119 *	73-118

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/22/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007931-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.9	20.0	100	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005980

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
WG-9954-070920-SG-033	R2005980-001	106	66	53
WG-9954-070920-SG-034	R2005980-002	106	69	56
WG-9954-070920-SG-035	R2005980-003	91	51	33
WG-9954-070920-SG-036	R2005980-005	69	56	40
Method Blank	RQ2007538-01	90	67	49
Lab Control Sample	RQ2007538-02	94	66	43
Duplicate Lab Control Sample	RQ2007538-03	98	70	43

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005980

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31-110	10-107	10-165
WG-9954-070920-SG-033	R2005980-001	68	47	55
WG-9954-070920-SG-034	R2005980-002	67	60	56
WG-9954-070920-SG-035	R2005980-003	55	23	46
WG-9954-070920-SG-036	R2005980-005	59	28	53
Method Blank	RQ2007538-01	70	35	70
Lab Control Sample	RQ2007538-02	57	32	64
Duplicate Lab Control Sample	RQ2007538-03	66	32	70

ALS Group USA, Corp.
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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007538-01

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
1,2-Dichlorobenzene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
1,3-Dichlorobenzene	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
1,4-Dichlorobenzene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
2,4,6-Trichlorophenol	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
2,4-Dichlorophenol	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
2,4-Dimethylphenol	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
2,4-Dinitrophenol	50 U	50	20	1	07/20/20 13:13	7/15/20	
2,4-Dinitrotoluene	10 U	10	2.4	1	07/20/20 13:13	7/15/20	
2,6-Dinitrotoluene	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
2-Chloronaphthalene	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
2-Chlorophenol	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
2-Methylnaphthalene	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
2-Methylphenol	10 U	10	1.0	1	07/20/20 13:13	7/15/20	
2-Nitroaniline	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
2-Nitrophenol	10 U	10	1.5	1	07/20/20 13:13	7/15/20	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
3-Nitroaniline	10 U	10	2.5	1	07/20/20 13:13	7/15/20	
4,6-Dinitro-2-methylphenol	50 U	50	20	1	07/20/20 13:13	7/15/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	07/20/20 13:13	7/15/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
4-Chloroaniline	10 U	10	1.0	1	07/20/20 13:13	7/15/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	07/20/20 13:13	7/15/20	
4-Nitroaniline	10 U	10	2.7	1	07/20/20 13:13	7/15/20	
4-Nitrophenol	50 U	50	6.4	1	07/20/20 13:13	7/15/20	
Acenaphthene	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
Acenaphthylene	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
Anthracene	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
Benz(a)anthracene	10 U	10	1.6	1	07/20/20 13:13	7/15/20	
Benzo(a)pyrene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
Benzo(b)fluoranthene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
Benzo(g,h,i)perylene	10 U	10	1.0	1	07/20/20 13:13	7/15/20	
Benzo(k)fluoranthene	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
Benzoic Acid	100 U	100	36	1	07/20/20 13:13	7/15/20	
Benzyl Alcohol	10 U	10	1.6	1	07/20/20 13:13	7/15/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	07/20/20 13:13	7/15/20	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	1.0	1	07/20/20 13:13	7/15/20	
Butyl Benzyl Phthalate	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
Chrysene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007538-01

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	2.0	1	07/20/20 13:13	7/15/20	
Di-n-octyl Phthalate	10 U	10	3.3	1	07/20/20 13:13	7/15/20	
Dibenz(a,h)anthracene	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
Dibenzofuran	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
Diethyl Phthalate	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
Dimethyl Phthalate	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
Fluoranthene	10 U	10	1.5	1	07/20/20 13:13	7/15/20	
Fluorene	10 U	10	1.3	1	07/20/20 13:13	7/15/20	
Hexachlorobenzene	10 U	10	1.6	1	07/20/20 13:13	7/15/20	
Hexachlorobutadiene	10 U	10	1.0	1	07/20/20 13:13	7/15/20	
Hexachlorocyclopentadiene	10 U	10	2.2	1	07/20/20 13:13	7/15/20	
Hexachloroethane	10 U	10	1.1	1	07/20/20 13:13	7/15/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	07/20/20 13:13	7/15/20	
Isophorone	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
N-Nitrosodiphenylamine	10 U	10	2.7	1	07/20/20 13:13	7/15/20	
Naphthalene	10 U	10	1.2	1	07/20/20 13:13	7/15/20	
Nitrobenzene	10 U	10	1.5	1	07/20/20 13:13	7/15/20	
Pentachlorophenol (PCP)	50 U	50	9.8	1	07/20/20 13:13	7/15/20	
Phenanthrene	10 U	10	1.4	1	07/20/20 13:13	7/15/20	
Phenol	10 U	10	1.0	1	07/20/20 13:13	7/15/20	
Pyrene	10 U	10	1.5	1	07/20/20 13:13	7/15/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	07/20/20 13:13	
2-Fluorobiphenyl	67	31 - 118	07/20/20 13:13	
2-Fluorophenol	49	10 - 105	07/20/20 13:13	
Nitrobenzene-d5	70	31 - 110	07/20/20 13:13	
Phenol-d6	35	10 - 107	07/20/20 13:13	
p-Terphenyl-d14	70	10 - 165	07/20/20 13:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/20/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2007538-02					Duplicate Lab Control Sample RQ2007538-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	42.2	80.0	53	44.0	80.0	55	10-127	4	30
1,2-Dichlorobenzene	8270D	39.6	80.0	50	40.3	80.0	50	23-130	<1	30
1,3-Dichlorobenzene	8270D	40.7	80.0	51	39.4	80.0	49	21-90	4	30
1,4-Dichlorobenzene	8270D	39.0	80.0	49	39.2	80.0	49	10-124	<1	30
2,4,5-Trichlorophenol	8270D	58.4	80.0	73	63.8	80.0	80	48-134	9	30
2,4,6-Trichlorophenol	8270D	53.6	80.0	67	58.8	80.0	73	44-135	9	30
2,4-Dichlorophenol	8270D	46.5	80.0	58	48.0	80.0	60	48-127	3	30
2,4-Dimethylphenol	8270D	51.7	80.0	65	55.8	80.0	70	59-113	7	30
2,4-Dinitrophenol	8270D	54.5	80.0	68	64.5	80.0	81	21-154	17	30
2,4-Dinitrotoluene	8270D	69.0	80.0	86	74.4	80.0	93	54-130	8	30
2,6-Dinitrotoluene	8270D	72.6	80.0	91	81.8	80.0	102	51-127	11	30
2-Chloronaphthalene	8270D	51.7	80.0	65	55.2	80.0	69	40-108	6	30
2-Chlorophenol	8270D	42.7	80.0	53	41.7	80.0	52	42-112	2	30
2-Methylnaphthalene	8270D	50.7	80.0	63	51.9	80.0	65	34-102	3	30
2-Methylphenol	8270D	44.5	80.0	56	48.3	80.0	60	47-100	7	30
2-Nitroaniline	8270D	66.2	80.0	83	74.0	80.0	92	52-133	10	30
2-Nitrophenol	8270D	46.8	80.0	59	50.8	80.0	64	43-131	8	30
3,3'-Dichlorobenzidine	8270D	69.5	80.0	87	74.0	80.0	93	43-126	7	30
3- and 4-Methylphenol Coelution	8270D	40.5	80.0	51	44.5	80.0	56	40-92	9	30
3-Nitroaniline	8270D	63.3	80.0	79	68.5	80.0	86	42-111	8	30
4,6-Dinitro-2-methylphenol	8270D	62.5	80.0	78	67.6	80.0	85	36-152	9	30
4-Bromophenyl Phenyl Ether	8270D	65.6	80.0	82	71.2	80.0	89	48-114	8	30
4-Chloro-3-methylphenol	8270D	60.1	80.0	75	63.4	80.0	79	52-113	5	30
4-Chloroaniline	8270D	54.7	80.0	68	55.8	80.0	70	44-109	3	30
4-Chlorophenyl Phenyl Ether	8270D	56.1	80.0	70	61.0	80.0	76	51-107	8	30
4-Nitroaniline	8270D	64.4	80.0	81	70.5	80.0	88	54-133	8	30
4-Nitrophenol	8270D	24.4 J	80.0	31	26.8 J	80.0	34	10-126	9	30
Acenaphthene	8270D	58.4	80.0	73	62.8	80.0	78	52-107	7	30
Acenaphthylene	8270D	62.4	80.0	78	67.2	80.0	84	55-109	7	30
Anthracene	8270D	66.7	80.0	83	74.4	80.0	93	55-116	11	30
Benz(a)anthracene	8270D	65.3	80.0	82	71.9	80.0	90	61-121	9	30
Benzo(a)pyrene	8270D	69.6	80.0	87	79.9	80.0	100	44-114	14	30
Benzo(b)fluoranthene	8270D	63.6	80.0	80	74.5	80.0	93	62-115	15	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/20/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2007538-02

Duplicate Lab Control Sample
RQ2007538-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	71.7	80.0	90	82.0	80.0	102	63-136	13	30
Benzo(k)fluoranthene	8270D	70.1	80.0	88	77.4	80.0	97	49-133	10	30
Benzoic Acid	8270D	53.4 J	120	44	63.7 J	120	53	10-94	19	30
Benzyl Alcohol	8270D	52.8	80.0	66	57.7	80.0	72	31-109	9	30
2,2'-Oxybis(1-chloropropane)	8270D	42.6	80.0	53	49.3	80.0	62	32-122	16	30
Bis(2-chloroethoxy)methane	8270D	52.0	80.0	65	55.9	80.0	70	55-110	7	30
Bis(2-chloroethyl) Ether	8270D	44.1	80.0	55	44.2	80.0	55	46-102	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	80.4	80.0	100	86.5	80.0	108	51-132	8	30
Butyl Benzyl Phthalate	8270D	74.6	80.0	93	79.7	80.0	100	41-148	7	30
Chrysene	8270D	67.1	80.0	84	76.7	80.0	96	57-118	13	30
Di-n-butyl Phthalate	8270D	82.2	80.0	103	87.9	80.0	110	57-128	7	30
Di-n-octyl Phthalate	8270D	80.9	80.0	101	92.3	80.0	115	62-124	13	30
Dibenz(a,h)anthracene	8270D	81.4	80.0	102	91.7	80.0	115	54-135	12	30
Dibenzofuran	8270D	62.2	80.0	78	68.1	80.0	85	55-110	9	30
Diethyl Phthalate	8270D	65.9	80.0	82	68.3	80.0	85	53-113	4	30
Dimethyl Phthalate	8270D	71.9	80.0	90	76.2	80.0	95	51-112	5	30
Fluoranthene	8270D	75.3	80.0	94	82.3	80.0	103	66-127	9	30
Fluorene	8270D	64.1	80.0	80	69.4	80.0	87	54-106	8	30
Hexachlorobenzene	8270D	72.0	80.0	90	82.7	80.0	103	53-123	13	30
Hexachlorobutadiene	8270D	46.9	80.0	59	47.4	80.0	59	16-95	<1	30
Hexachlorocyclopentadiene	8270D	13.6	80.0	17	15.6	80.0	20	10-99	16	30
Hexachloroethane	8270D	39.4	80.0	49	38.8	80.0	49	15-92	<1	30
Indeno(1,2,3-cd)pyrene	8270D	69.2	80.0	87	82.3	80.0	103	62-137	17	30
Isophorone	8270D	45.7	80.0	57	51.7	80.0	65	50-116	13	30
N-Nitrosodi-n-propylamine	8270D	53.9	80.0	67	60.4	80.0	76	49-115	13	30
N-Nitrosodiphenylamine	8270D	78.4	80.0	98	85.6	80.0	107	45-123	9	30
Naphthalene	8270D	45.4	80.0	57	48.1	80.0	60	38-99	5	30
Nitrobenzene	8270D	43.3	80.0	54	49.6	80.0	62	46-108	14	30
Pentachlorophenol (PCP)	8270D	76.9	80.0	96	84.2	80.0	105	29-164	9	30
Phenanthrene	8270D	65.1	80.0	81	72.5	80.0	91	58-118	12	30
Phenol	8270D	28.0	80.0	35	27.6	80.0	35	10-113	<1	30
Pyrene	8270D	73.5	80.0	92	77.6	80.0	97	61-122	5	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005980

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
WG-9954-070920-SG-033	R2005980-001	27	59
WG-9954-070920-SG-034	R2005980-002	69	62
WG-9954-070920-SG-035	R2005980-003	42	52
WG-9954-070920-SG-036	R2005980-005	44	61
Method Blank	RQ2007457-01	67	60
Lab Control Sample	RQ2007457-02	66	67
Duplicate Lab Control Sample	RQ2007457-03	64	63

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007457-01

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
4,4'-DDE	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
4,4'-DDT	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Aldrin	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Dieldrin	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endosulfan I	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endosulfan II	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endrin	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Endrin Ketone	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Heptachlor	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Methoxychlor	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
Toxaphene	0.50 U	0.50	0.50	1	07/15/20 14:09	7/14/20	
alpha-BHC	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
beta-BHC	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
delta-BHC	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	07/15/20 14:09	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 164	07/15/20 14:09	
Tetrachloro-m-xylene	60	10 - 147	07/15/20 14:09	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/15/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2007457-02					Duplicate Lab Control Sample RQ2007457-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.295	0.400	74	0.278	0.400	69	42-159	6	30
4,4'-DDE	8081B	0.296	0.400	74	0.281	0.400	70	47-147	5	30
4,4'-DDT	8081B	0.317	0.400	79	0.308	0.400	77	41-149	3	30
Aldrin	8081B	0.248	0.400	62	0.240	0.400	60	22-137	3	30
Dieldrin	8081B	0.319	0.400	80	0.314	0.400	79	52-144	1	30
Endosulfan I	8081B	0.312	0.400	78	0.307	0.400	77	52-136	2	30
Endosulfan II	8081B	0.231	0.400	58	0.288	0.400	72	57-138	22	30
Endosulfan Sulfate	8081B	0.228	0.400	57	0.267	0.400	67	34-156	16	30
Endrin	8081B	0.325	0.400	81	0.318	0.400	80	56-143	2	30
Endrin Ketone	8081B	0.288	0.400	72	0.305	0.400	76	59-143	6	30
Heptachlor	8081B	0.246	0.400	62	0.250	0.400	63	32-141	2	30
Heptachlor Epoxide	8081B	0.316	0.400	79	0.309	0.400	77	51-143	2	30
Methoxychlor	8081B	0.311	0.400	78	0.315	0.400	79	56-149	1	30
alpha-BHC	8081B	0.311	0.400	78	0.297	0.400	74	36-151	5	30
alpha-Chlordane	8081B	0.309	0.400	77	0.301	0.400	75	50-139	3	30
beta-BHC	8081B	0.312	0.400	78	0.310	0.400	77	55-149	<1	30
delta-BHC	8081B	0.252	0.400	63	0.279	0.400	70	29-159	10	30
gamma-BHC (Lindane)	8081B	0.315	0.400	79	0.301	0.400	75	41-149	4	30
gamma-Chlordane	8081B	0.304	0.400	76	0.297	0.400	74	50-140	2	30

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

Service Request: R2005980

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
WG-9954-070920-SG-033	R2005980-001	22	45
WG-9954-070920-SG-034	R2005980-002	55	45
WG-9954-070920-SG-035	R2005980-003	41	47
WG-9954-070920-SG-036	R2005980-005	47	49
Method Blank	RQ2007457-01	82	59
Lab Control Sample	RQ2007457-02	76	54
Duplicate Lab Control Sample	RQ2007457-03	79	59

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Analytical Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2007457-01

Service Request: R2005980
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	07/16/20 15:01	7/14/20	
Aroclor 1221	2.0 U	2.0	1.0	1	07/16/20 15:01	7/14/20	
Aroclor 1232	1.0 U	1.0	0.50	1	07/16/20 15:01	7/14/20	
Aroclor 1242	1.0 U	1.0	0.50	1	07/16/20 15:01	7/14/20	
Aroclor 1248	1.0 U	1.0	0.50	1	07/16/20 15:01	7/14/20	
Aroclor 1254	1.0 U	1.0	0.50	1	07/16/20 15:01	7/14/20	
Aroclor 1260	1.0 U	1.0	0.50	1	07/16/20 15:01	7/14/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 152	07/16/20 15:01	
Tetrachloro-m-xylene	59	14 - 129	07/16/20 15:01	

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QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates)
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring
Sample Matrix: Water

Service Request: R2005980
Date Analyzed: 07/16/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2007457-02					RQ2007457-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	3.23	4.00	81	3.79	4.00	95	49-123	16	30
Aroclor 1260	8082A	3.92	4.00	98	4.38	4.00	110	30-120	11	30

Appendix F

Data Validation Memorandum



Memorandum

August 26, 2020

To: Joe Branch [joseph_branch@oxy.com]

Ref. No.: 009954

From: Kathy Willy/adh/65

Tel: 716-205-1942

cc: John Pentilchuk, Dennis Hoyt, Maggie Popek

**Subject: Analytical Results and Full Validation
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020**

1. Introduction

This document details a validation of analytical results for water samples collected in support of the Annual Long-Term Monitoring Program at the Love Canal Site during June and July 2020. Samples were submitted to ALS Laboratories located in Rochester, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples, and field quality assurance/quality control (QA/QC) samples. The assessment of analytical and in-house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "Quality Assurance Project Plan", Appendix B of "Sampling Manual Long-Term Groundwater Monitoring Program", June 2013
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540-R 2016-002, September 2016

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.



2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometry (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

- i) All relative response factors (RRFs) must be greater than or equal to 0.05 (0.01 for poor responders).
- ii) The percent relative standard deviation (RSD) values must not exceed 20.0 percent (40 percent for poor responders) or a minimum correlation coefficient (R) of 0.995 and minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves, respectively, are used.

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for linearity and sensitivity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are



used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis, and all method performance criteria were met.

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest and for polychlorinated biphenyls (PCBs) (Aroclors 1016 and 1260). A single calibration standard is analyzed for all other multi-response compounds. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the correlation coefficient (R) is 0.995 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the methods.

5. Continuing Calibration - Organic Analyses

5.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

- i) All RRF values must be greater than or equal to 0.05 (0.01 for poor responders).
- ii) Percent difference (%D) values must not exceed 25 percent (40 percent for poor responders).

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity. Both vinyl acetate and bis(2-chloroethyl)ether demonstrated some variability. A summary of qualified results is presented in Table 4.

5.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

Continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria, indicating acceptable instrument calibration throughout the analysis period.



6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Most method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation. Low concentrations of toluene, chloromethane, and di-n-butylphthalate were reported. All associated sample results with concentrations similar to that found in the blanks were considered to be a reflection of laboratory contamination and were qualified as non-detect. Sample results that were either non-detect or significantly greater in concentration than that found in the blanks would not have been impacted by the potential contamination, and no qualification of the data was required. A summary of qualified results is presented in Table 5.

7. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC, SVOC, pesticides, and PCB determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Some surrogate recoveries could not be assessed due to necessary secondary dilutions performed on the samples. All other surrogate recoveries were within acceptable limits, with the exception of a severely low (<10 percent) pesticide surrogate recovery and low SVOC surrogate recoveries in one sample. The associated samples results were qualified as follows:

- i) Non-detect pesticide results were rejected due to the demonstrated poor analytical efficiency.
- ii) Positive pesticide results were qualified as estimated to reflect the implied low bias.
- iii) Associated SVOC results were qualified as estimated to reflect the implied low bias.

A summary of qualified results are presented in Table 6.



8. Internal Standards (IS) Analyses

IS data were evaluated for all VOC and SVOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

- i) The retention time of the IS must not vary more than ± 30 seconds from the associated calibration standard.
- ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

All organic IS recoveries and retention times met the above criteria.

9. Laboratory Control Sample Analyses

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the exception of some low SVOC recoveries and outlying RPD values. All associated sample results were qualified as estimated to reflect the potential low bias and indicated variability. A summary of qualified results is presented in Table 7.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the distillation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the exception of some severely low (<10 percent) SVOC recoveries. The associated non-detect sample results



were rejected due to the demonstrated poor analytical efficiency. A summary of qualified results is presented in Table 8.

11. Field QA/QC Samples

The field QA/QC consisted of seven trip blank samples, two rinse blank samples, and three field duplicate sample sets.

11.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, seven trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low concentration of toluene reported in one blank. All associated sample results with concentrations similar to that found in the trip blank had been previously qualified as non-detect due to potential method blank contamination, and no further qualification of the data was required.

11.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, two rinse blanks were submitted for analysis, as identified in Table 1. Low concentrations of several target analytes were detected. Associated sample results with concentrations similar to that found in the blanks were qualified as non-detect. Sample results that were either non-detect or significantly greater in concentration than the blanks would not have been impacted, and no qualification of the data was required. A summary of qualified results is presented in Table 9.

11.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, three field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

All field duplicate results were within agreement, demonstrating acceptable sampling and analytical precision with the exception of delta-BHC, which showed some variability in results between one sample and its field duplicate. A summary of qualified results is presented in Table 10.

12. Tentatively Identified Compounds (TICS)

Chromatographic peaks recorded during VOC and SVOC sample GC/MS analyses that are not target compounds, surrogates, or IS, are potential TICS.



A summary of the TICs reported by the laboratory is presented in Table 2. Per the "Guidelines", TICs that were present in the method blanks or identified as solvent preservatives/aldol reaction products were rejected and are not included in the table.

13. Dual Column Analysis

Pesticide analyses were performed using dual column analysis. All pesticide results showed good correlation between the two columns (<40 percent).

14. Analyte Reporting

The laboratory reported detected results down to the laboratory's Method Detection Limit (MDL) for each analyte. Positive analyte detections less than the Practical Quantitation Limit (PQL) but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

15. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

16. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					VOCs	SVOCs	Pesticides	PCBs	
RB-9954-062520-SG-001	-	Water	06/25/2020	13:50	X	X	X	X	Rinse Blank
RB-9954-063020-SG-002	-	Water	06/30/2020	13:00	X	X	X	X	Rinse Blank
TB-9954-062420-SG-001	-	Water	06/24/2020	-	X				Trip Blank
TB-9954-062520-SG-002	-	Water	06/25/2020	-	X				Trip Blank
TB-9954-062620-RM-003	-	Water	06/26/2020	-	X				Trip Blank
TB-9954-063020-SG-004	-	Water	06/30/2020	-	X				Trip Blank
TB-9954-070120-SG-005	-	Water	07/01/2020	-	X				Trip Blank
TB-9954-070620-SG-006	-	Water	07/06/2020	-	X				Trip Blank
TB-9954-070920-SG-007	-	Water	07/09/2020	-	X				Trip Blank
WG-9954-062420-SG-001	7115	Groundwater	06/24/2020	09:10	X	X	X	X	
WG-9954-062420-SG-002	7125	Groundwater	06/24/2020	09:55	X	X	X	X	
WG-9954-062420-SG-003	7130	Groundwater	06/24/2020	10:30	X	X	X	X	
WG-9954-062420-SG-004	7132	Groundwater	06/24/2020	11:05	X	X	X	X	
WG-9954-062420-SG-005	8115	Groundwater	06/24/2020	11:50	X	X	X	X	
WG-9954-062420-SG-006	8125	Groundwater	06/24/2020	12:45	X	X	X	X	
WG-9954-062420-SG-007	9105	Groundwater	06/24/2020	13:35	X	X	X	X	
WG-9954-062520-SG-008	9113	Groundwater	06/25/2020	09:15	X	X	X	X	
WG-9954-062520-SG-009	9118	Groundwater	06/25/2020	10:05	X	X	X	X	
WG-9954-062520-SG-010	9118	Groundwater	06/25/2020	10:05	X	X	X	X	Field duplicate of sample WG-9954-062520-SG-009
WG-9954-062520-SG-011	6209	Groundwater	06/25/2020	11:10	X	X	X	X	
WG-9954-062520-SG-012	9210	Groundwater	06/25/2020	12:25	X	X	X	X	Matrix Spike/Matrix Spike Duplicate
WG-9954-062520-SG-013	10205	Groundwater	06/25/2020	13:15	X	X	X	X	
WG-9954-062620-RM-014	7205	Groundwater	06/26/2020	08:50	X	X	X	X	
WG-9954-062620-RM-015	8210	Groundwater	06/26/2020	10:00	X	X	X	X	
WG-9954-062620-RM-016	9205	Groundwater	06/26/2020	11:05	X	X	X	X	
WG-9954-062620-RM-017	8106	Groundwater	06/26/2020	11:55	X	X	X	X	
WG-9954-062620-RM-018	3257	Groundwater	06/26/2020	12:40	X	X	X	X	
WG-9954-063020-RM-023	MW-01	Groundwater	06/30/2020	12:15	X	X	X	X	Matrix Spike/Matrix Spike Duplicate
WG-9954-063020-SG-019	10210B	Groundwater	06/30/2020	09:05	X	X	X	X	
WG-9954-063020-SG-020	10210C	Groundwater	06/30/2020	10:10	X	X	X	X	
WG-9954-063020-SG-021	10210C	Groundwater	06/30/2020	10:10	X	X	X	X	Field duplicate of sample WG-9954-063020-SG-020
WG-9954-063020-SG-022	10215	Groundwater	06/30/2020	11:00	X	X	X	X	
WG-9954-070120-SG-024	MW-02	Groundwater	07/01/2020	08:45	X	X	X	X	
WG-9954-070120-SG-025	5221	Groundwater	07/01/2020	09:55	X	X	X	X	
WG-9954-070120-SG-026	10225C	Groundwater	07/01/2020	10:45	X	X	X	X	
WG-9954-070120-SG-027	10135	Groundwater	07/01/2020	11:50	X	X	X	X	

Table 1

Sample Collection and Analysis Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					VOCs	SVOCs	Pesticides	PCBs	
WG-9954-070120-SG-028	10135	Groundwater	07/01/2020	11:50	X	X	X	X	Field duplicate of sample WG-9954-070120-SG-027
WG-9954-070620-SG-029	10278	Groundwater	07/06/2020	13:55	X	X	X	X	
WG-9954-070720-SG-030	10272	Groundwater	07/07/2020	12:15	X	X	X	X	
WG-9954-070720-SG-031	10178A	Groundwater	07/07/2020	10:30	X	X	X	X	
WG-9954-070720-SG-032	10270	Groundwater	07/07/2020	13:00	X	X	X	X	
WG-9954-070920-SG-033	10210A	Groundwater	07/09/2020	12:25	X	X	X	X	
WG-9954-070920-SG-034	10225A	Groundwater	07/09/2020	12:55	X	X	X	X	
WG-9954-070920-SG-035	10225B	Groundwater	07/09/2020	13:15	X	X	X	X	
WG-9954-071020-SG-036	10178B	Groundwater	07/10/2020	08:15	X	X	X	X	

Notes:

- VOCs - Volatile Organic Compounds
- SVOCs - Semi-volatile Organic Compounds
- PCBs - Polychlorinated Biphenyls
- - Not applicable

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	3257	5221	6209	7115
	Sample Name:	WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062420-SG-001
	Sample Date:	06/26/2020	07/01/2020	06/25/2020	06/24/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	1.2 J	10 U	2.0 J	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:			
		Sample Name:			
		Sample Date:			
		3257	5221	6209	7115
		WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062420-SG-001
		06/26/2020	07/01/2020	06/25/2020	06/24/2020
VOCs, Tentatively Identified Compounds (TICs)					
1,2,4-Trichlorobenzene	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-	-
2-Methylbutane	µg/L	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl sulfide	µg/L	-	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-
Hexanal	µg/L	-	-	-	-
Isobutane	µg/L	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-	-
Methanethiol	µg/L	-	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-	-
Methylthioethane	µg/L	-	-	-	-
Nonanal	µg/L	-	-	-	-
Propane	µg/L	-	-	-	-
Sulfur dioxide (SO ₂)	µg/L	35.9 J	56.0 J	-	-
Trimethylfluorosilane	µg/L	-	-	-	-
Unknown	µg/L	-	-	82.8 J	-
Semi-volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	3257	5221	6209	7115
Sample Name:	WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062420-SG-001
Sample Date:	06/26/2020	07/01/2020	06/25/2020	06/24/2020
Parameters	Unit			
SVOCs-Continued				
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 UJ	9.1 U
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 UJ	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 U	91 U	91 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 UJ	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	1.7 J
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	3257	5221	6209	7115
Sample Name:	WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062420-SG-001
Sample Date:	06/26/2020	07/01/2020	06/25/2020	06/24/2020
Parameters	Unit			
SVOCs-Continued				
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 UJ	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U
SVOC, TICs				
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-
1,4-Dioxane	µg/L	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	7.6 JN	-
1-Chloro-3-methylbenzene	µg/L	-	3.8 JN	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-
4-Chlorophenol	µg/L	-	-	-
4-Chlorotoluene	µg/L	-	-	-
6-Octadecenoic acid	µg/L	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-
Chlorobenzene	µg/L	-	-	-
Cyclohexanol	µg/L	-	-	-
Dimethyl disulfide	µg/L	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-
Dodecanoic acid	µg/L	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	3257	5221	6209	7115
Sample Name:	WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062420-SG-001
Sample Date:	06/26/2020	07/01/2020	06/25/2020	06/24/2020
Parameters	Unit			
SVOCs, TICs-Continued				
Hexadecanoic acid	µg/L	-	-	-
Homomenthyl salicylate	µg/L	-	-	-
Nonanoic acid	µg/L	-	-	-
Sulfur	µg/L	9.1 JN	4.8 JN	-
Toluene	µg/L	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-
Unknown	µg/L	52.6 J	-	5.1 J
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U
Pesticides				
4,4'-DDD	µg/L	R	0.045 U	0.045 U
4,4'-DDE	µg/L	0.029 J	0.045 U	0.045 U
4,4'-DDT	µg/L	R	0.045 U	0.045 U
Aldrin	µg/L	R	0.045 U	0.045 U
alpha-BHC	µg/L	R	0.13	0.045 U
alpha-Chlordane	µg/L	R	0.045 U	0.045 U
beta-BHC	µg/L	0.045 J	0.045 U	0.045 U
delta-BHC	µg/L	R	0.029 J	0.045 U
Dieldrin	µg/L	R	0.045 U	0.045 U
Endosulfan I	µg/L	0.037 J	0.045 U	0.045 U
Endosulfan II	µg/L	R	0.045 U	0.045 U
Endosulfan sulfate	µg/L	R	0.045 U	0.045 U
Endrin	µg/L	R	0.045 U	0.045 U
Endrin ketone	µg/L	R	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.026 J	0.076	0.045 U
gamma-Chlordane	µg/L	0.020 NJ	0.045 U	0.045 U
Heptachlor	µg/L	R	0.045 U	0.045 U
Heptachlor epoxide	µg/L	R	0.045 U	0.045 U
Methoxychlor	µg/L	R	0.045 U	0.045 U
Toxaphene	µg/L	R	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	3257	5221	6209	7115
Sample Name:	WG-9954-062620-RM-018	WG-9954-070120-SG-025	WG-9954-062520-SG-011	WG-9954-062420-SG-001
Sample Date:	06/26/2020	07/01/2020	06/25/2020	06/24/2020

Parameters**Unit****Field Parameters**

Temperature, field	Deg C	12.9	13.7	12.8	11.7
Conductivity, field	mS/cm	3.82	3.31	5.19	1.60
Turbidity, field	NTU	13.9	7.22	5.80	369
pH, field	s.u.	6.93	7.56	7.35	7.31

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		7125	7130	7132	7205
Sample Name:		WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-014
Sample Date:		06/24/2020	06/24/2020	06/24/2020	06/26/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	2.4 J
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	0.83 J	4.0 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	0.30 J
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:			
		Sample Name:			
		Sample Date:			
		7125	7130	7132	7205
		WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-014
		06/24/2020	06/24/2020	06/24/2020	06/26/2020
VOCs, Tentatively Identified Compounds (TICs)					
1,2,4-Trichlorobenzene	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-	-
2-Methylbutane	µg/L	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	10.2 J
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl sulfide	µg/L	-	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-
Hexanal	µg/L	-	-	-	-
Isobutane	µg/L	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-	-
Methanethiol	µg/L	-	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-	-
Methylthioethane	µg/L	-	-	-	-
Nonanal	µg/L	-	-	-	-
Propane	µg/L	-	-	-	-
Sulfur dioxide (SO ₂)	µg/L	-	-	-	-
Trimethylfluorosilane	µg/L	-	-	-	-
Unknown	µg/L	-	-	-	8.5 J
Semi-volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:			
		Sample Name:			
		Sample Date:			
		7125	7130	7132	7205
		WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-014
		06/24/2020	06/24/2020	06/24/2020	06/26/2020
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 UJ	91 U	91 U	91 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 UJ
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 UJ	9.1 U	9.1 U	2.2 J
Butyl benzylphthalate (BBP)	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	7125	7130	7132	7205
	Sample Name:	WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-014
	Sample Date:	06/24/2020	06/24/2020	06/24/2020	06/26/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:			
		7125	7130	7132	7205
		WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-014
		06/24/2020	06/24/2020	06/24/2020	06/26/2020
SVOCs, TICs-Continued					
Hexadecanoic acid	µg/L	-	-	-	-
Homomenthyl salicylate	µg/L	-	-	-	-
Nonanoic acid	µg/L	-	-	-	-
Sulfur	µg/L	-	-	-	14 JN
Toluene	µg/L	-	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-	-
Unknown	µg/L	-	3.7 J	-	29.2 J
Polychlorinated Biphenyls (PCBs)					
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Pesticides					
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.088
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.036 J
delta-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.32
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.045 U	0.045 U	0.045 U	0.11
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	7125	7130	7132	7205
Sample Name:	WG-9954-062420-SG-002	WG-9954-062420-SG-003	WG-9954-062420-SG-004	WG-9954-062620-RM-014
Sample Date:	06/24/2020	06/24/2020	06/24/2020	06/26/2020

Parameters**Unit****Field Parameters**

Temperature, field	Deg C	10.2	11.1	11.5	11.6
Conductivity, field	mS/cm	1.25	1.04	1.17	2.91
Turbidity, field	NTU	47.2	12.7	4.00	4.78
pH, field	s.u.	7.50	7.58	7.78	7.35

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		8106	8115	8125	8210
Sample Name:		WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062620-RM-015
Sample Date:		06/26/2020	06/24/2020	06/24/2020	06/26/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	10 U	2.7 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	0.38 J	5.0 U	5.0 U	0.35 J
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		8106	8115	8125	8210
Sample Name:		WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062620-RM-015
Sample Date:		06/26/2020	06/24/2020	06/24/2020	06/26/2020
Parameters	Unit				
VOCs, Tentatively Identified Compounds (TICs)					
1,2,4-Trichlorobenzene	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-	-
2-Methylbutane	µg/L	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl sulfide	µg/L	-	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-
Hexanal	µg/L	-	-	-	-
Isobutane	µg/L	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-	-
Methanethiol	µg/L	-	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-	-
Methylthioethane	µg/L	-	-	-	-
Nonanal	µg/L	-	-	-	-
Propane	µg/L	-	-	-	-
Sulfur dioxide (SO ₂)	µg/L	-	-	-	-
Trimethylfluorosilane	µg/L	-	-	-	10.2 J
Unknown	µg/L	-	-	-	-
Semi-volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	<div> <div>Location ID:</div> <div>Sample Name:</div> <div>Sample Date:</div> </div>			
		8106	8115	8125	8210
		WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062620-RM-015
		06/26/2020	06/24/2020	06/24/2020	06/26/2020
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 UJ	9.1 U	9.1 U	9.1 UJ
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		8106	8115	8125	8210
Sample Name:		WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062620-RM-015
Sample Date:		06/26/2020	06/24/2020	06/24/2020	06/26/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		8106	8115	8125	8210
Sample Name:		WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062620-RM-015
Sample Date:		06/26/2020	06/24/2020	06/24/2020	06/26/2020
Parameters	Unit				
SVOCs, TICs-Continued					
Hexadecanoic acid	µg/L	-	-	-	-
Homomenthyl salicylate	µg/L	-	-	-	-
Nonanoic acid	µg/L	-	-	-	-
Sulfur	µg/L	-	-	-	5.1 JN
Toluene	µg/L	-	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-	-
Unknown	µg/L	62 J	-	-	61 J
Polychlorinated Biphenyls (PCBs)					
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Pesticides					
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.064
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.042 J
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.045 U	0.045 U	0.045 U	0.060
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	8106	8115	8125	8210
Sample Name:	WG-9954-062620-RM-017	WG-9954-062420-SG-005	WG-9954-062420-SG-006	WG-9954-062620-RM-015
Sample Date:	06/26/2020	06/24/2020	06/24/2020	06/26/2020

Parameters**Unit****Field Parameters**

Temperature, field	Deg C	11.7	10.6	10.4	12.3
Conductivity, field	mS/cm	2.28	1.44	1.62	3.92
Turbidity, field	NTU	206	456	335	2.05
pH, field	s.u.	7.20	7.49	7.33	7.23

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		9105	9113	9118	9118
Sample Name:		WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010
Sample Date:		06/24/2020	06/25/2020	06/25/2020	06/25/2020
					Duplicate
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	0.55 J	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	0.48 J	0.75 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	0.32 J	0.38 J	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 UJ	10 UJ	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	9105	9113	9118	9118
Sample Name:	WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010
Sample Date:	06/24/2020	06/25/2020	06/25/2020	06/25/2020 Duplicate
Parameters	Unit			
VOCs, Tentatively Identified Compounds (TICs)				
1,2,4-Trichlorobenzene	µg/L	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-
2-Methylbutane	µg/L	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-
Dimethyl disulfide	µg/L	-	-	-
Dimethyl sulfide	µg/L	-	-	-
Dimethyl trisulfide	µg/L	-	-	-
Hexanal	µg/L	-	-	-
Isobutane	µg/L	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-
Methanethiol	µg/L	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-
Methylthioethane	µg/L	-	-	-
Nonanal	µg/L	-	-	-
Propane	µg/L	-	-	-
Sulfur dioxide (SO ₂)	µg/L	-	-	28.9 JN
Trimethylfluorosilane	µg/L	-	-	-
Unknown	µg/L	-	-	-
Semi-volatile Organic Compounds (SVOCs)				
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 UJ	9.1 UJ	9.1 UJ
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	<div> <div>Location ID:</div> <div>Sample Name:</div> <div>Sample Date:</div> </div>			
		9105	9113	9118	9118
		WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010
		06/24/2020	06/25/2020	06/25/2020	06/25/2020 Duplicate
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 U	91 U	91 U	91 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		9105	9113	9118	9118
Sample Name:		WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010
Sample Date:		06/24/2020	06/25/2020	06/25/2020	06/25/2020 Duplicate
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	11 JN	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		9105	9113	9118	9118
Sample Name:		WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010
Sample Date:		06/24/2020	06/25/2020	06/25/2020	06/25/2020 Duplicate
Parameters	Unit				
SVOCs, TICs-Continued					
Hexadecanoic acid	µg/L	-	5.8 JN	-	-
Homomenthyl salicylate	µg/L	-	-	-	-
Nonanoic acid	µg/L	-	-	-	-
Sulfur	µg/L	-	-	-	-
Toluene	µg/L	-	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-	-
Unknown	µg/L	83.2 J	4.6 J	59.2 J	-
Polychlorinated Biphenyls (PCBs)					
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Pesticides					
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		9105	9113	9118	9118
Sample Name:		WG-9954-062420-SG-007	WG-9954-062520-SG-008	WG-9954-062520-SG-009	WG-9954-062520-SG-010
Sample Date:		06/24/2020	06/25/2020	06/25/2020	06/25/2020 Duplicate
Parameters	Unit				
Field Parameters					
Temperature, field	Deg C	11.0	11.1	11.3	11.3
Conductivity, field	mS/cm	1.72	0.79	0.96	0.96
Turbidity, field	NTU	1000	79.8	202	202
pH, field	s.u.	7.48	10.46	7.47	7.47

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	9205	9210	10135	10135
	Sample Name:	WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-070120-SG-027	WG-9954-070120-SG-028
	Sample Date:	06/26/2020	06/25/2020	07/01/2020	07/01/2020
					Duplicate
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	6.1	7.9
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	12	14
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	0.27 J
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	0.63 J	0.78 J
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	12	6.8 J
2-Hexanone	µg/L	10 U	10 U	10 U	2.1 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	79	71
Benzene	µg/L	5.0 U	5.0 U	6500	6300
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	1.9 J	2.6 J	10 U	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	2500	2400
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	140	140
Chloromethane (Methyl chloride)	µg/L	5.0 U	0.30 J	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	26	28
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	12	12
Methylene chloride	µg/L	5.0 U	5.0 U	6.4	7.2
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	20	23
Toluene	µg/L	5.0 U	5.0 U	22000	21000
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	29	35
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	120	130
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	10	11
Xylenes (total)	µg/L	5.0 U	5.0 U	58	58

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		9205	9210	10135	10135
Sample Name:		WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-070120-SG-027	WG-9954-070120-SG-028
Sample Date:		06/26/2020	06/25/2020	07/01/2020	07/01/2020
					Duplicate
Parameters	Unit				
VOCs, Tentatively Identified Compounds (TICs)					
1,2,4-Trichlorobenzene	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	16362.0 J	-
1-Chloro-3-methylbenzene	µg/L	-	-	8134.0 J	-
2,6-Dichlorotoluene	µg/L	-	-	1534.0 J	-
2-Methylbutane	µg/L	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl sulfide	µg/L	-	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-
Hexanal	µg/L	-	-	-	-
Isobutane	µg/L	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-	-
Methanethiol	µg/L	-	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-	-
Methylthioethane	µg/L	-	-	-	-
Nonanal	µg/L	-	-	-	-
Propane	µg/L	-	-	-	-
Sulfur dioxide (SO2)	µg/L	71.1 J	-	-	-
Trimethylfluorosilane	µg/L	-	-	-	-
Unknown	µg/L	-	-	-	-
Semi-volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	93	100
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	25	34
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	3.6 J	4.1 J
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	73	97
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	37	26
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	330	350
2,4-Dimethylphenol	µg/L	9.1 U	9.1 UJ	8.9 J	6.9 J
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	27	31
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	1.4 J	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	32	32

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:			
		Sample Name:			
		Sample Date:			
		9205	9210	10135	10135
		WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-070120-SG-027	WG-9954-070120-SG-028
		06/26/2020	06/25/2020	07/01/2020	07/01/2020
					Duplicate
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	71	71
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	R	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 UJ	46	40
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 UJ	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 U	91 U	11000	10000
Benzyl alcohol	µg/L	9.1 U	9.1 U	290	290
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 UJ	9.1 U	20	24
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	1.0 J
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:	9205	9210	10135	10135
		Sample Name:	WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-070120-SG-027	WG-9954-070120-SG-028
		Sample Date:	06/26/2020	06/25/2020	07/01/2020	07/01/2020 Duplicate
SVOCs-Continued						
Hexachloroethane	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L		9.1 U	9.1 UJ	R	9.1 U
N-Nitrosodi-n-propylamine	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L		45 U	45 U	45 U	45 U
Phenanthrene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L		9.1 U	9.1 U	40	44
Pyrene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs						
(4-Methylphenyl)phenylmethanone	µg/L		-	-	31 JN	27 JN
1,4-Dioxane	µg/L		-	-	140 JN	140 JN
1-Chloro-2-methyl-benzene	µg/L		-	-	1800 JN	2000 JN
1-Chloro-3-methylbenzene	µg/L		-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L		-	-	-	17 JN
2,3-Dichlorobenzoic acid	µg/L		-	-	28 JN	-
2,5-Dichlorobenzoic acid	µg/L		-	-	-	30 JN
2-Ethyl-ethanoic acid	µg/L		-	-	110 JN	100 JN
2-Propyl tridecyl-sulfurous acid	µg/L		-	-	-	-
3,4-Dichlorophenol	µg/L		-	-	-	260 JN
3,5-Dichlorophenol	µg/L		-	-	370 JN	-
3-Benzoylbenzoic acid	µg/L		-	-	290 JN	170 JN
3-Chlorobenzoic acid	µg/L		-	-	9900 JN	180 JN
3-Methyl-cyclohexanol	µg/L		-	-	38 JN	29 JN
4-Benzoyl-(rel)-benzoic acid	µg/L		-	-	780 JN	630 JN
4-Chlorobenzoic acid	µg/L		-	-	1500 JN	6200 JN
4-Chlorophenol	µg/L		-	-	150 JN	150 JN
4-Chlorotoluene	µg/L		-	-	1000 JN	1200 JN
6-Octadecenoic acid	µg/L		-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L		-	-	32 JN	32 JN
Chlorobenzene	µg/L		-	-	350 JN	400 JN
Cyclohexanol	µg/L		-	-	120 JN	130 JN
Dimethyl disulfide	µg/L		-	-	-	-
Dimethyl tetrasulfide	µg/L		-	-	-	-
Dodecanoic acid	µg/L		-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	9205	9210	10135	10135
	Sample Name:	WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-070120-SG-027	WG-9954-070120-SG-028
	Sample Date:	06/26/2020	06/25/2020	07/01/2020	07/01/2020
					Duplicate
Parameters	Unit				
SVOCs, TICs-Continued					
Hexadecanoic acid	µg/L	-	-	-	-
Homomenthyl salicylate	µg/L	-	-	-	-
Nonanoic acid	µg/L	-	-	-	-
Sulfur	µg/L	4.0 JN	9.6 JN	-	-
Toluene	µg/L	-	-	1800 JN	-
trans-2-Methylcyclohexanol	µg/L	-	-	-	18 JN
Unknown	µg/L	86.4 J	-	552 J	101 J
Polychlorinated Biphenyls (PCBs)					
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U
Pesticides					
4,4'-DDD	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Aldrin	µg/L	0.045 U	0.045 U	1.0 J	0.85
alpha-BHC	µg/L	0.097	0.033 J	27	25
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
beta-BHC	µg/L	0.045 U	0.045 U	6.8 J	6.9
delta-BHC	µg/L	0.10	0.068	9.2	8.7
Dieldrin	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Endrin	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
gamma-BHC (lindane)	µg/L	0.096	0.037 J	6.5	6.2
gamma-Chlordane	µg/L	0.045 U	0.028 J	0.45 U	0.45 U
Heptachlor	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.45 U	0.45 U
Toxaphene	µg/L	0.46 U	0.46 U	4.6 U	4.6 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		9205	9210	10135	10135
Sample Name:		WG-9954-062620-RM-016	WG-9954-062520-SG-012	WG-9954-070120-SG-027	WG-9954-070120-SG-028
Sample Date:		06/26/2020	06/25/2020	07/01/2020	07/01/2020 Duplicate
Parameters	Unit				
Field Parameters					
Temperature, field	Deg C	13.1	13.8	11.3	11.3
Conductivity, field	mS/cm	2.34	5.51	2.97	2.97
Turbidity, field	NTU	14.9	3.69	869	869
pH, field	s.u.	7.32	7.02	6.98	6.98

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	10178A	10178B	10205	10210A
	Sample Name:	WG-9954-070720-SG-031	WG-9954-071020-SG-036	WG-9954-062520-SG-013	WG-9954-070920-SG-033
	Sample Date:	07/07/2020	07/10/2020	06/25/2020	07/09/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	5.4 J	9.2 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10178A	10178B	10205	10210A
Sample Name:	WG-9954-070720-SG-031	WG-9954-071020-SG-036	WG-9954-062520-SG-013	WG-9954-070920-SG-033
Sample Date:	07/07/2020	07/10/2020	06/25/2020	07/09/2020
Parameters	Unit			
VOCs, Tentatively Identified Compounds (TICs)				
1,2,4-Trichlorobenzene	µg/L	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-
2-Methylbutane	µg/L	-	-	5.4 J
6-Methyl-5-hepten-2-one	µg/L	-	-	-
Dimethyl disulfide	µg/L	-	-	33.4 J
Dimethyl sulfide	µg/L	-	-	325.6 J
Dimethyl trisulfide	µg/L	-	-	9.9 J
Hexanal	µg/L	-	-	10.3 J
Isobutane	µg/L	-	-	11.4 J
m-Monochlorobenzotrifluoride	µg/L	-	-	-
Methanethiol	µg/L	-	-	5.8 J
Methoxytrimethyl-silane	µg/L	-	-	-
Methylthioethane	µg/L	-	-	25.8 J
Nonanal	µg/L	-	-	7.0 J
Propane	µg/L	-	-	7.7 J
Sulfur dioxide (SO ₂)	µg/L	-	-	-
Trimethylfluorosilane	µg/L	-	-	-
Unknown	µg/L	-	-	-
Semi-volatile Organic Compounds (SVOCs)				
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 U	9.1 UJ	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10178A	10178B	10205	10210A
Sample Name:	WG-9954-070720-SG-031	WG-9954-071020-SG-036	WG-9954-062520-SG-013	WG-9954-070920-SG-033
Sample Date:	07/07/2020	07/10/2020	06/25/2020	07/09/2020

Parameters	Unit				
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 U	91 U	91 U	91 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	1.3 J	3.7 J	3.9 J
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U	2.3 J
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10178A	10178B	10205	10210A
Sample Name:		WG-9954-070720-SG-031	WG-9954-071020-SG-036	WG-9954-062520-SG-013	WG-9954-070920-SG-033
Sample Date:		07/07/2020	07/10/2020	06/25/2020	07/09/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 UJ	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	21 JN
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10178A	10178B	10205	10210A
Sample Name:	WG-9954-070720-SG-031	WG-9954-071020-SG-036	WG-9954-062520-SG-013	WG-9954-070920-SG-033
Sample Date:	07/07/2020	07/10/2020	06/25/2020	07/09/2020
Parameters	Unit			
SVOCs, TICs-Continued				
Hexadecanoic acid	µg/L	-	-	-
Homomenthyl salicylate	µg/L	-	-	-
Nonanoic acid	µg/L	-	4.5 JN	-
Sulfur	µg/L	-	42 JN	8.7 JN
Toluene	µg/L	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-
Unknown	µg/L	-	81.1 J	71.7 J
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U
Pesticides				
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.019 J	0.045 U
alpha-BHC	µg/L	0.045 U	0.18	0.12
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.045 U	0.28	0.088
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.045 U	0.21	0.15
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 UJ
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10178A	10178B	10205	10210A
Sample Name:		WG-9954-070720-SG-031	WG-9954-071020-SG-036	WG-9954-062520-SG-013	WG-9954-070920-SG-033
Sample Date:		07/07/2020	07/10/2020	06/25/2020	07/09/2020
Parameters	Unit				
Field Parameters					
Temperature, field	Deg C	12.7	13.0	13.4	12.9
Conductivity, field	mS/cm	1.70	2.22	5.74	58.56
Turbidity, field	NTU	72.7	111	28.2	620
pH, field	s.u.	7.29	8.16	6.99	6.96

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	10210B	10210C	10210C	10215
	Sample Name:	WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021	WG-9954-063020-SG-022
	Sample Date:	06/30/2020	06/30/2020	06/30/2020 Duplicate	06/30/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	4.3 J	4.2 J	3.1 J	3.5 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:	10210B	10210C	10210C	10215
		Sample Name:	WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021	WG-9954-063020-SG-022
		Sample Date:	06/30/2020	06/30/2020	06/30/2020 Duplicate	06/30/2020
VOCs, Tentatively Identified Compounds (TICs)						
1,2,4-Trichlorobenzene	µg/L		-	-	-	-
1-Chloro-2-methyl-benzene	µg/L		-	-	-	-
1-Chloro-3-methylbenzene	µg/L		-	-	-	-
2,6-Dichlorotoluene	µg/L		-	-	-	-
2-Methylbutane	µg/L		-	-	-	-
6-Methyl-5-hepten-2-one	µg/L		-	-	-	-
Dimethyl disulfide	µg/L		-	-	-	-
Dimethyl sulfide	µg/L		-	-	-	-
Dimethyl trisulfide	µg/L		-	-	-	-
Hexanal	µg/L		-	-	-	-
Isobutane	µg/L		-	-	-	-
m-Monochlorobenzotrifluoride	µg/L		-	-	-	-
Methanethiol	µg/L		-	-	-	-
Methoxytrimethyl-silane	µg/L		-	-	-	-
Methylthioethane	µg/L		-	-	-	-
Nonanal	µg/L		-	-	-	-
Propane	µg/L		-	-	-	-
Sulfur dioxide (SO ₂)	µg/L		78.4 J	41.3 J	46.7 J	51.5 J
Trimethylfluorosilane	µg/L		-	-	-	-
Unknown	µg/L		206 J	47.4 J	24.0 J	24.7 J
Semi-volatile Organic Compounds (SVOCs)						
1,2,4-Trichlorobenzene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L		45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:	10210B	10210C	10210C	10215
		Sample Name:	WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021	WG-9954-063020-SG-022
		Sample Date:	06/30/2020	06/30/2020	06/30/2020 Duplicate	06/30/2020
SVOCs-Continued						
2-Nitroaniline	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L		45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L		45 U	45 U	45 U	45 U
Acenaphthene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L		91 U	91 U	91 U	91 U
Benzyl alcohol	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L		9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10210B	10210C	10210C	10215
Sample Name:		WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021	WG-9954-063020-SG-022
Sample Date:		06/30/2020	06/30/2020	06/30/2020 Duplicate	06/30/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:	10210B	10210C	10210C	10215
		Sample Name:	WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021	WG-9954-063020-SG-022
		Sample Date:	06/30/2020	06/30/2020	06/30/2020 Duplicate	06/30/2020
SVOCs, TICs-Continued						
Hexadecanoic acid	µg/L		-	-	-	-
Homomenthyl salicylate	µg/L		-	-	-	4.5 JN
Nonanoic acid	µg/L		-	-	-	-
Sulfur	µg/L		-	6.4 JN	-	-
Toluene	µg/L		-	-	-	-
trans-2-Methylcyclohexanol	µg/L		-	-	-	-
Unknown	µg/L		31.9 J	36.9 J	20.6 J	64.2 J
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	µg/L		0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L		1.8 U	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L		0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L		0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L		0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L		0.91 U	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L		0.91 U	0.91 U	0.91 U	0.91 U
Pesticides						
4,4'-DDD	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L		0.12	0.081	0.10	0.064
alpha-Chlordane	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L		0.045 U	0.045 U	0.045 U	0.027 J
delta-BHC	µg/L		0.076	0.068 J	0.12 J	0.29
Dieldrin	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Endrin	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L		0.10	0.089	0.11	0.074
gamma-Chlordane	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L		0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L		0.46 U	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10210B	10210C	10210C	10215
Sample Name:		WG-9954-063020-SG-019	WG-9954-063020-SG-020	WG-9954-063020-SG-021	WG-9954-063020-SG-022
Sample Date:		06/30/2020	06/30/2020	06/30/2020 Duplicate	06/30/2020
Parameters	Unit				
Field Parameters					
Temperature, field	Deg C	13.5	14.0	14.0	14.4
Conductivity, field	mS/cm	11.63	5.91	5.91	5.44
Turbidity, field	NTU	19.0	3.96	3.96	6.25
pH, field	s.u.	7.06	7.07	7.07	7.16

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10225A	10225B	10225C	10270
Sample Name:		WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032
Sample Date:		07/09/2020	07/09/2020	07/01/2020	07/07/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	25 U	25 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	25 U	25 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	25 U	25 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	25 U	25 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	25 U	25 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	25 U	25 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	25 U	25 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	10 U	10 U
2-Hexanone	µg/L	50 U	50 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	10 U	10 U
Acetone	µg/L	50 U	50 U	10 U	10 U
Benzene	µg/L	25 U	25 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	25 U	25 U	5.0 U	5.0 U
Bromoform	µg/L	25 U	25 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	25 U	25 U	5.0 U	5.0 U
Carbon disulfide	µg/L	160	25 J	3.3 J	3.7 J
Carbon tetrachloride	µg/L	25 U	25 U	5.0 U	5.0 U
Chlorobenzene	µg/L	25 U	25 U	0.89 J	5.0 U
Chloroethane	µg/L	25 U	25 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	25 U	25 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	25 U	25 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	25 U	25 U	3.3 J	5.0 U
cis-1,3-Dichloropropene	µg/L	25 U	25 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	25 U	25 U	5.0 U	5.0 U
Ethylbenzene	µg/L	25 U	25 U	5.0 U	5.0 U
Methylene chloride	µg/L	25 U	25 U	5.0 U	5.0 U
Styrene	µg/L	25 U	25 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	25 U	25 U	5.0 U	5.0 U
Toluene	µg/L	25 U	25 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	25 U	25 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	25 U	25 U	5.0 U	5.0 U
Trichloroethene	µg/L	25 U	25 U	6.5	5.0 U
Vinyl acetate	µg/L	50 U	50 U	10 U	10 U
Vinyl chloride	µg/L	25 U	25 U	5.0 U	5.0 U
Xylenes (total)	µg/L	25 U	25 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameters	Unit	Location ID:			
		Sample Name:			
		Sample Date:			
		10225A	10225B	10225C	10270
		WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032
		07/09/2020	07/09/2020	07/01/2020	07/07/2020
VOCs, Tentatively Identified Compounds (TICs)					
1,2,4-Trichlorobenzene	µg/L	-	-	12.7 J	-
1-Chloro-2-methyl-benzene	µg/L	-	-	8.1 J	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-	-
2-Methylbutane	µg/L	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	45.7 J	-	-	-
Dimethyl sulfide	µg/L	594.4 J	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-
Hexanal	µg/L	-	-	6.7 J	-
Isobutane	µg/L	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	6.1 J	-
Methanethiol	µg/L	78.0 J	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-	-
Methylthioethane	µg/L	50.8 J	-	-	-
Nonanal	µg/L	-	-	-	-
Propane	µg/L	-	-	-	-
Sulfur dioxide (SO ₂)	µg/L	213.2 J	1552.5 J	46.1 J	1.4 J
Trimethylfluorosilane	µg/L	-	-	-	-
Unknown	µg/L	-	-	-	-
Semi-volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	7.7 J	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10225A	10225B	10225C	10270
Sample Name:	WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032
Sample Date:	07/09/2020	07/09/2020	07/01/2020	07/07/2020

Parameters	Unit				
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 U	91 U	91 U	91 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10225A	10225B	10225C	10270
Sample Name:		WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032
Sample Date:		07/09/2020	07/09/2020	07/01/2020	07/07/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	1.2 J	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	7.9 JN	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	24 JN	-	-	-
Dimethyl tetrasulfide	µg/L	190 JN	-	-	-
Dodecanoic acid	µg/L	-	-	6.1 JN	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10225A	10225B	10225C	10270
Sample Name:	WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032
Sample Date:	07/09/2020	07/09/2020	07/01/2020	07/07/2020
Parameters	Unit			
SVOCs, TICs-Continued				
Hexadecanoic acid	µg/L	-	-	-
Homomenthyl salicylate	µg/L	-	-	-
Nonanoic acid	µg/L	-	-	-
Sulfur	µg/L	-	14 JN	4.2 JN
Toluene	µg/L	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-
Unknown	µg/L	20.7 J	26.1 J	30.6 J
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U
Pesticides				
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.069	0.072	0.070
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.019 J	0.045 U
delta-BHC	µg/L	0.065	0.19	0.067
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.077	0.11	0.098
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10225A	10225B	10225C	10270
Sample Name:	WG-9954-070920-SG-034	WG-9954-070920-SG-035	WG-9954-070120-SG-026	WG-9954-070720-SG-032
Sample Date:	07/09/2020	07/09/2020	07/01/2020	07/07/2020

Parameters**Unit****Field Parameters**

Temperature, field	Deg C	12.8	12.6	13.1	14.4
Conductivity, field	mS/cm	128.8	6.50	3.68	3.56
Turbidity, field	NTU	67.8	59.9	1.97	6.40
pH, field	s.u.	7.60	8.13	7.31	7.18

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	10272	10278	MW-01	MW-02
	Sample Name:	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
	Sample Date:	07/07/2020	07/06/2020	06/30/2020	07/01/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	3.4 J	6.4 J	2.9 J	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		10272	10278	MW-01	MW-02
Sample Name:		WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
Sample Date:		07/07/2020	07/06/2020	06/30/2020	07/01/2020
Parameters	Unit				
VOCs, Tentatively Identified Compounds (TICs)					
1,2,4-Trichlorobenzene	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-	-
2-Methylbutane	µg/L	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl sulfide	µg/L	-	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-
Hexanal	µg/L	-	7.7 J	-	-
Isobutane	µg/L	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-	-
Methanethiol	µg/L	-	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-	-
Methylthioethane	µg/L	-	-	-	-
Nonanal	µg/L	-	-	-	-
Propane	µg/L	-	-	-	-
Sulfur dioxide (SO2)	µg/L	48.8 J	303.7 J	47.6 J	66.0 J
Trimethylfluorosilane	µg/L	-	-	-	-
Unknown	µg/L	-	-	-	-
Semi-volatile Organic Compounds (SVOCs)					
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10272	10278	MW-01	MW-02
Sample Name:	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
Sample Date:	07/07/2020	07/06/2020	06/30/2020	07/01/2020

Parameters	Unit				
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	91 U	91 U	91 U	91 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	R	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	10272	10278	MW-01	MW-02
	Sample Name:	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
	Sample Date:	07/07/2020	07/06/2020	06/30/2020	07/01/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	7.0 JN
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10272	10278	MW-01	MW-02
Sample Name:	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
Sample Date:	07/07/2020	07/06/2020	06/30/2020	07/01/2020
Parameters	Unit			
SVOCs, TICs-Continued				
Hexadecanoic acid	µg/L	-	-	-
Homomenthyl salicylate	µg/L	-	-	-
Nonanoic acid	µg/L	-	-	-
Sulfur	µg/L	13 JN	-	-
Toluene	µg/L	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-
Unknown	µg/L	57.6 J	59.1 J	65.2 J
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	0.91 U	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U
Pesticides				
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U
4,4'-DDE	µg/L	0.045 U	0.045 U	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.24	0.47	0.045 U
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.084	0.13	0.045 U
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan I	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan II	µg/L	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	µg/L	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U
Endrin ketone	µg/L	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.26	0.48	0.045 U
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	µg/L	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.46 U	0.46 U	0.46 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	10272	10278	MW-01	MW-02
Sample Name:	WG-9954-070720-SG-030	WG-9954-070620-SG-029	WG-9954-063020-RM-023	WG-9954-070120-SG-024
Sample Date:	07/07/2020	07/06/2020	06/30/2020	07/01/2020

Parameters**Unit****Field Parameters**

Temperature, field	Deg C	14.5	13.4	13.3	13.0
Conductivity, field	mS/cm	5.20	5.13	3.75	3.40
Turbidity, field	NTU	13.0	3.31	59.0	20.5
pH, field	s.u.	6.97	7.33	7.18	7.19

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID:	RINSE BLANK	RINSE BLANK	Trip Blank	Trip Blank
	Sample Name:	RB-9954-062520-SG-001	RB-9954-063020-SG-002	TB-9954-062420-SG-001	TB-9954-062520-SG-002
	Sample Date:	06/25/2020	06/30/2020	06/24/2020	06/25/2020
Parameters	Unit				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	0.25 J	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	RINSE BLANK	RINSE BLANK	Trip Blank	Trip Blank
Sample Name:	RB-9954-062520-SG-001	RB-9954-063020-SG-002	TB-9954-062420-SG-001	TB-9954-062520-SG-002
Sample Date:	06/25/2020	06/30/2020	06/24/2020	06/25/2020
Parameters	Unit			
VOCs, Tentatively Identified Compounds (TICs)				
1,2,4-Trichlorobenzene	µg/L	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-
2-Methylbutane	µg/L	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-
Dimethyl disulfide	µg/L	-	-	-
Dimethyl sulfide	µg/L	-	-	-
Dimethyl trisulfide	µg/L	-	-	-
Hexanal	µg/L	-	-	-
Isobutane	µg/L	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-
Methanethiol	µg/L	-	-	-
Methoxytrimethyl-silane	µg/L	-	-	-
Methylthioethane	µg/L	-	-	-
Nonanal	µg/L	-	-	-
Propane	µg/L	-	-	-
Sulfur dioxide (SO2)	µg/L	84.1 J	-	-
Trimethylfluorosilane	µg/L	-	-	-
Unknown	µg/L	-	-	-
Semi-volatile Organic Compounds (SVOCs)				
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	-
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	-
1,3-Dichlorobenzene	µg/L	9.1 U	9.1 U	-
1,4-Dichlorobenzene	µg/L	9.1 U	9.1 U	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	9.1 U	9.1 U	-
2,4,5-Trichlorophenol	µg/L	9.1 U	9.1 U	-
2,4,6-Trichlorophenol	µg/L	9.1 U	9.1 U	-
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	-
2,4-Dimethylphenol	µg/L	9.1 U	9.1 U	-
2,4-Dinitrophenol	µg/L	45 U	45 U	-
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	-
2,6-Dinitrotoluene	µg/L	9.1 U	9.1 U	-
2-Chloronaphthalene	µg/L	9.1 U	9.1 U	-
2-Chlorophenol	µg/L	9.1 U	9.1 U	-
2-Methylnaphthalene	µg/L	9.1 U	9.1 U	-
2-Methylphenol	µg/L	9.1 U	9.1 U	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	RINSE BLANK	RINSE BLANK	Trip Blank	Trip Blank
Sample Name:	RB-9954-062520-SG-001	RB-9954-063020-SG-002	TB-9954-062420-SG-001	TB-9954-062520-SG-002
Sample Date:	06/25/2020	06/30/2020	06/24/2020	06/25/2020

Parameters	Unit				
SVOCs-Continued					
2-Nitroaniline	µg/L	9.1 U	9.1 U	-	-
2-Nitrophenol	µg/L	9.1 U	9.1 U	-	-
3&4-Methylphenol	µg/L	9.1 U	9.1 U	-	-
3,3'-Dichlorobenzidine	µg/L	9.1 U	9.1 U	-	-
3-Nitroaniline	µg/L	9.1 U	9.1 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	45 U	45 U	-	-
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	-	-
4-Chloro-3-methylphenol	µg/L	9.1 U	9.1 U	-	-
4-Chloroaniline	µg/L	9.1 U	9.1 U	-	-
4-Chlorophenyl phenyl ether	µg/L	9.1 U	9.1 U	-	-
4-Nitroaniline	µg/L	9.1 U	9.1 U	-	-
4-Nitrophenol	µg/L	45 U	45 U	-	-
Acenaphthene	µg/L	9.1 U	9.1 U	-	-
Acenaphthylene	µg/L	9.1 U	9.1 U	-	-
Anthracene	µg/L	9.1 U	9.1 U	-	-
Benzo(a)anthracene	µg/L	9.1 U	9.1 U	-	-
Benzo(a)pyrene	µg/L	9.1 U	9.1 U	-	-
Benzo(b)fluoranthene	µg/L	9.1 U	9.1 U	-	-
Benzo(g,h,i)perylene	µg/L	9.1 U	9.1 U	-	-
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	-	-
Benzoic acid	µg/L	91 U	91 U	-	-
Benzyl alcohol	µg/L	9.1 U	9.1 U	-	-
bis(2-Chloroethoxy)methane	µg/L	9.1 U	9.1 U	-	-
bis(2-Chloroethyl)ether	µg/L	9.1 U	9.1 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	9.1 U	9.1 U	-	-
Butyl benzylphthalate (BBP)	µg/L	9.1 U	9.1 U	-	-
Chrysene	µg/L	9.1 U	9.1 U	-	-
Di-n-butylphthalate (DBP)	µg/L	9.1 U	9.1 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	9.1 U	9.1 U	-	-
Dibenz(a,h)anthracene	µg/L	9.1 U	9.1 U	-	-
Dibenzofuran	µg/L	9.1 U	9.1 U	-	-
Diethyl phthalate	µg/L	9.1 U	9.1 U	-	-
Dimethyl phthalate	µg/L	9.1 U	9.1 U	-	-
Fluoranthene	µg/L	9.1 U	9.1 U	-	-
Fluorene	µg/L	9.1 U	9.1 U	-	-
Hexachlorobenzene	µg/L	9.1 U	9.1 U	-	-
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	-	-
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

	Location ID: Sample Name: Sample Date:	RINSE BLANK RB-9954-062520-SG-001 06/25/2020	RINSE BLANK RB-9954-063020-SG-002 06/30/2020	Trip Blank TB-9954-062420-SG-001 06/24/2020	Trip Blank TB-9954-062520-SG-002 06/25/2020
Parameters	Unit				
SVOCs-Continued					
Hexachloroethane	µg/L	9.1 U	9.1 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	9.1 U	9.1 U	-	-
Isophorone	µg/L	9.1 U	9.1 U	-	-
N-Nitrosodi-n-propylamine	µg/L	9.1 U	9.1 U	-	-
N-Nitrosodiphenylamine	µg/L	9.1 U	9.1 U	-	-
Naphthalene	µg/L	9.1 U	9.1 U	-	-
Nitrobenzene	µg/L	9.1 U	9.1 U	-	-
Pentachlorophenol	µg/L	45 U	45 U	-	-
Phenanthrene	µg/L	9.1 U	9.1 U	-	-
Phenol	µg/L	9.1 U	0.94 J	-	-
Pyrene	µg/L	9.1 U	9.1 U	-	-
SVOC, TICs					
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	RINSE BLANK	RINSE BLANK	Trip Blank	Trip Blank
Sample Name:	RB-9954-062520-SG-001	RB-9954-063020-SG-002	TB-9954-062420-SG-001	TB-9954-062520-SG-002
Sample Date:	06/25/2020	06/30/2020	06/24/2020	06/25/2020
Parameters	Unit			
SVOCs, TICs-Continued				
Hexadecanoic acid	µg/L	-	-	-
Homomenthyl salicylate	µg/L	-	-	-
Nonanoic acid	µg/L	-	-	-
Sulfur	µg/L	-	-	-
Toluene	µg/L	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-
Unknown	µg/L	17.9 J	25.2 J	-
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	0.91 U	-
Aroclor-1221 (PCB-1221)	µg/L	1.8 U	1.8 U	-
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	0.91 U	-
Aroclor-1242 (PCB-1242)	µg/L	0.91 U	0.91 U	-
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	0.91 U	-
Aroclor-1254 (PCB-1254)	µg/L	0.91 U	R	-
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	R	-
Pesticides				
4,4'-DDD	µg/L	0.045 U	R	-
4,4'-DDE	µg/L	0.045 U	R	-
4,4'-DDT	µg/L	0.045 U	R	-
Aldrin	µg/L	0.045 U	R	-
alpha-BHC	µg/L	0.079	R	-
alpha-Chlordane	µg/L	0.045 U	R	-
beta-BHC	µg/L	0.045 U	R	-
delta-BHC	µg/L	0.044 J	0.037 J	-
Dieldrin	µg/L	0.045 U	R	-
Endosulfan I	µg/L	0.045 U	R	-
Endosulfan II	µg/L	0.045 U	R	-
Endosulfan sulfate	µg/L	0.045 U	R	-
Endrin	µg/L	0.045 U	R	-
Endrin ketone	µg/L	0.045 U	R	-
gamma-BHC (lindane)	µg/L	0.075	0.058 J	-
gamma-Chlordane	µg/L	0.045 U	R	-
Heptachlor	µg/L	0.045 U	R	-
Heptachlor epoxide	µg/L	0.045 U	R	-
Methoxychlor	µg/L	0.045 U	R	-
Toxaphene	µg/L	0.46 U	R	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:		RINSE BLANK	RINSE BLANK	Trip Blank	Trip Blank
Sample Name:		RB-9954-062520-SG-001	RB-9954-063020-SG-002	TB-9954-062420-SG-001	TB-9954-062520-SG-002
Sample Date:		06/25/2020	06/30/2020	06/24/2020	06/25/2020
Parameters	Unit				
Field Parameters					
Temperature, field	Deg C	-	-	-	-
Conductivity, field	mS/cm	-	-	-	-
Turbidity, field	NTU	-	-	-	-
pH, field	s.u.	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Name:	TB-9954-062620-RM-003	TB-9954-063020-SG-004	TB-9954-070120-SG-005	TB-9954-070620-SG-006	TB-9954-070920-SG-007
Sample Date:	06/26/2020	06/30/2020	07/01/2020	07/06/2020	07/09/2020

Parameters	Unit					
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	0.30 J	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:
Sample Name:
Sample Date:

Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
TB-9954-062620-RM-003	TB-9954-063020-SG-004	TB-9954-070120-SG-005	TB-9954-070620-SG-006	TB-9954-070920-SG-007
06/26/2020	06/30/2020	07/01/2020	07/06/2020	07/09/2020

Parameters	Unit					
VOCs, Tentatively Identified Compounds (TICs)						
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-	-
2,6-Dichlorotoluene	µg/L	-	-	-	-	-
2-Methylbutane	µg/L	-	-	-	-	-
6-Methyl-5-hepten-2-one	µg/L	-	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-	-
Dimethyl sulfide	µg/L	-	-	-	-	-
Dimethyl trisulfide	µg/L	-	-	-	-	-
Hexanal	µg/L	-	-	-	-	-
Isobutane	µg/L	-	-	-	-	-
m-Monochlorobenzotrifluoride	µg/L	-	-	-	-	-
Methanethiol	µg/L	-	-	-	-	-
Methoxytrimethyl-silane	µg/L	-	11.9 J	-	-	-
Methylthioethane	µg/L	-	-	-	-	-
Nonanal	µg/L	-	-	-	-	-
Propane	µg/L	-	-	-	-	-
Sulfur dioxide (SO ₂)	µg/L	-	-	-	-	-
Trimethylfluorosilane	µg/L	-	-	-	-	-
Unknown	µg/L	-	17.3 J	-	-	-
Semi-volatile Organic Compounds (SVOCs)						
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Name:	TB-9954-062620-RM-003	TB-9954-063020-SG-004	TB-9954-070120-SG-005	TB-9954-070620-SG-006	TB-9954-070920-SG-007
Sample Date:	06/26/2020	06/30/2020	07/01/2020	07/06/2020	07/09/2020

Parameters	Unit					
SVOCs-Continued						
2-Nitroaniline	µg/L	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-
Benzoic acid	µg/L	-	-	-	-	-
Benzyl alcohol	µg/L	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Name:	TB-9954-062620-RM-003	TB-9954-063020-SG-004	TB-9954-070120-SG-005	TB-9954-070620-SG-006	TB-9954-070920-SG-007
Sample Date:	06/26/2020	06/30/2020	07/01/2020	07/06/2020	07/09/2020

Parameters	Unit					
SVOCs-Continued						
Hexachloroethane	µg/L	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-
SVOC, TICs						
(4-Methylphenyl)phenylmethanone	µg/L	-	-	-	-	-
1,4-Dioxane	µg/L	-	-	-	-	-
1-Chloro-2-methyl-benzene	µg/L	-	-	-	-	-
1-Chloro-3-methylbenzene	µg/L	-	-	-	-	-
1-Methyl-2-(phenylmethyl)-benzene	µg/L	-	-	-	-	-
2,3-Dichlorobenzoic acid	µg/L	-	-	-	-	-
2,5-Dichlorobenzoic acid	µg/L	-	-	-	-	-
2-Ethyl-ethanoic acid	µg/L	-	-	-	-	-
2-Propyl tridecyl-sulfurous acid	µg/L	-	-	-	-	-
3,4-Dichlorophenol	µg/L	-	-	-	-	-
3,5-Dichlorophenol	µg/L	-	-	-	-	-
3-Benzoylbenzoic acid	µg/L	-	-	-	-	-
3-Chlorobenzoic acid	µg/L	-	-	-	-	-
3-Methyl-cyclohexanol	µg/L	-	-	-	-	-
4-Benzoyl-(rel)-benzoic acid	µg/L	-	-	-	-	-
4-Chlorobenzoic acid	µg/L	-	-	-	-	-
4-Chlorophenol	µg/L	-	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-	-
6-Octadecenoic acid	µg/L	-	-	-	-	-
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl	µg/L	-	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-	-
Cyclohexanol	µg/L	-	-	-	-	-
Dimethyl disulfide	µg/L	-	-	-	-	-
Dimethyl tetrasulfide	µg/L	-	-	-	-	-
Dodecanoic acid	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Name:	TB-9954-062620-RM-003	TB-9954-063020-SG-004	TB-9954-070120-SG-005	TB-9954-070620-SG-006	TB-9954-070920-SG-007
Sample Date:	06/26/2020	06/30/2020	07/01/2020	07/06/2020	07/09/2020

Parameters	Unit					
SVOCs, TICs-Continued						
Hexadecanoic acid	µg/L	-	-	-	-	-
Homomenthyl salicylate	µg/L	-	-	-	-	-
Nonanoic acid	µg/L	-	-	-	-	-
Sulfur	µg/L	-	-	-	-	-
Toluene	µg/L	-	-	-	-	-
trans-2-Methylcyclohexanol	µg/L	-	-	-	-	-
Unknown	µg/L	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-
Pesticides						
4,4'-DDD	µg/L	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Name:	TB-9954-062620-RM-003	TB-9954-063020-SG-004	TB-9954-070120-SG-005	TB-9954-070620-SG-006	TB-9954-070920-SG-007
Sample Date:	06/26/2020	06/30/2020	07/01/2020	07/06/2020	07/09/2020

Parameters**Unit****Field Parameters**

Temperature, field	Deg C	-	-	-	-	-
Conductivity, field	mS/cm	-	-	-	-	-
Turbidity, field	NTU	-	-	-	-	-
pH, field	s.u.	-	-	-	-	-

Notes:

- J - Estimated concentration
- JN - Presumptively present at estimated value
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- NJ - Tentatively identified compound, estimated concentration
- R - Rejected
- - Not applicable

Table 3

**Analytical Methods
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020**

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Semi-volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40

Notes:

- - Not applicable

Method Reference:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

**Qualified Sample Results Due to Outlying Continuing Calibration Results
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020**

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Vinyl acetate	06/30/2020	44	WG-9954-062420-SG-001	10 UJ	µg/L
				WG-9954-062420-SG-005	10 UJ	µg/L
				WG-9954-062420-SG-006	10 UJ	µg/L
				WG-9954-062420-SG-007	10 UJ	µg/L
				WG-9954-062620-RM-014	10 UJ	µg/L
				WG-9954-062620-RM-015	10 UJ	µg/L
				WG-9954-062620-RM-017	10 UJ	µg/L
				WG-9954-062520-SG-008	10 UJ	µg/L
SVOCs	bis(2-Chloroethyl)ether	07/06/2020	35.7	WG-9954-062620-RM-014	9.1 UJ	µg/L
				WG-9954-062620-RM-015	9.1 UJ	µg/L
				WG-9954-062620-RM-016	9.1 UJ	µg/L
				WG-9954-062620-RM-017	9.1 UJ	µg/L
				WG-9954-062620-RM-018	9.1 UJ	µg/L

Notes:

- %D - Percent difference
- UJ - Not detected; associated reporting limit is estimated
- VOCs - Volatile Organic Compounds
- SVOCs - Semi-volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Toluene	07/14/2020	0.41 J	WG-9954-063020-RM-023	0.31 J	5.0 U	µg/L
				WG-9954-063020-SG-019	0.34 J	5.0 U	µg/L
				WG-9954-063020-SG-020	0.35 J	5.0 U	µg/L
				WG-9954-063020-SG-021	0.31 J	5.0 U	µg/L
				WG-9954-063020-SG-022	0.38 J	5.0 U	µg/L
				WG-9954-070120-SG-024	0.26 J	5.0 U	µg/L
				WG-9954-070120-SG-025	0.27 J	5.0 U	µg/L
				WG-9954-070120-SG-026	0.26 J	5.0 U	µg/L

Notes:

- * - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit
- J - Estimated concentration
- VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	WG-9954-062420-SG-002	2,4,6-Tribromophenol	27	35 - 141	1,2,4-Trichlorobenzene	9.1 UJ	µg/L
		2-Fluorobiphenyl	26	31 - 118	1,2-Dichlorobenzene	9.1 UJ	µg/L
		Nitrobenzene-D5	22	31 - 110	1,3-Dichlorobenzene	9.1 UJ	µg/L
					1,4-Dichlorobenzene	9.1 UJ	µg/L
					2,2'-Oxybis(1-chloropropane)	9.1 UJ	µg/L
					2,4-Dinitrotoluene	9.1 UJ	µg/L
					2,6-Dinitrotoluene	9.1 UJ	µg/L
					2-Chloronaphthalene	9.1 UJ	µg/L
					2-Methylnaphthalene	9.1 UJ	µg/L
					2-Nitroaniline	9.1 UJ	µg/L
					3,3'-Dichlorobenzidine	9.1 UJ	µg/L
					3-Nitroaniline	9.1 UJ	µg/L
					4-Bromophenyl phenyl ether	9.1 UJ	µg/L
					4-Chloroaniline	9.1 UJ	µg/L
					4-Chlorophenyl phenyl ether	9.1 UJ	µg/L
					4-Nitroaniline	9.1 UJ	µg/L
					Acenaphthene	9.1 UJ	µg/L
					Acenaphthylene	9.1 UJ	µg/L
					Anthracene	9.1 UJ	µg/L
					Benzo(a)anthracene	9.1 UJ	µg/L
					Benzo(a)pyrene	9.1 UJ	µg/L
					Benzo(b)fluoranthene	9.1 UJ	µg/L
					Benzo(g,h,i)perylene	9.1 UJ	µg/L
					Benzo(k)fluoranthene	9.1 UJ	µg/L
					Benzoic acid	9.1 UJ	µg/L
					bis(2-Chloroethoxy)methane	9.1 UJ	µg/L
					bis(2-Chloroethyl)ether	9.1 UJ	µg/L
					bis(2-Ethylhexyl)phthalate (DEHP)	9.1 UJ	µg/L
					Butyl benzylphthalate (BBP)	9.1 UJ	µg/L
					Chrysene	9.1 UJ	µg/L
					Dibenz(a,h)anthracene	9.1 UJ	µg/L
					Dibenzofuran	9.1 UJ	µg/L
					Diethyl phthalate	9.1 UJ	µg/L
					Dimethyl phthalate	9.1 UJ	µg/L
					Di-n-butylphthalate (DBP)	9.1 UJ	µg/L
					Di-n-octyl phthalate (DnOP)	9.1 UJ	µg/L
					Fluoranthene	9.1 UJ	µg/L
					Fluorene	9.1 UJ	µg/L
					Hexachlorobenzene	9.1 UJ	µg/L
					Hexachlorobutadiene	9.1 UJ	µg/L
					Hexachlorocyclopentadiene	9.1 UJ	µg/L

Table 6

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	WG-9954-062420-SG-002	2,4,6-Tribromophenol	27	35 - 141	Hexachloroethane	9.1 UJ	µg/L
		2-Fluorobiphenyl	26	31 - 118	Indeno(1,2,3-cd)pyrene	9.1 UJ	µg/L
		Nitrobenzene-D5	22	31 - 110	Isophorone	9.1 UJ	µg/L
					Naphthalene	9.1 UJ	µg/L
					Nitrobenzene	9.1 UJ	µg/L
					N-Nitrosodi-n-propylamine	9.1 UJ	µg/L
					N-Nitrosodiphenylamine	9.1 UJ	µg/L
					Phenanthrene	9.1 UJ	µg/L
					Pyrene	9.1 UJ	µg/L
Pesticides	WG-9954-062620-RM-018	(PCB 209) Decachlorobiphenyl	3	10 - 164	4,4'-DDD	R	µg/L
					4,4'-DDE	0.029 J	µg/L
					4,4'-DDT	R	µg/L
					Aldrin	R	µg/L
					alpha-BHC	R	µg/L
					alpha-Chlordane	R	µg/L
					beta-BHC	0.045 J	µg/L
					delta-BHC	R	µg/L
					Dieldrin	R	µg/L
					Endosulfan I	0.037 J	µg/L
					Endosulfan II	R	µg/L
					Endosulfan sulfate	R	µg/L
					Endrin	R	µg/L
					Endrin ketone	R	µg/L
					gamma-BHC (lindane)	0.026 J	µg/L
					gamma-Chlordane	0.020 NJ	µg/L
					Heptachlor	R	µg/L
					Heptachlor epoxide	R	µg/L
					Methoxychlor	R	µg/L
					Toxaphene	R	µg/L

Notes:

- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated
- NJ - Tentatively identified compound, estimated concentration
- R - Rejected
- SVOCs - Semi-volatile Organic Compounds

Table 7

**Qualified Sample Results Due to Outlying LCS/LCSD Results
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020**

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						% Recovery	RPD			
SVOCs	2,4-Dimethylphenol	07/01/2020	82	56	38	59 - 113	30	WG-9954-062420-SG-006	9.1 UJ	µg/L
								WG-9954-062420-SG-007	9.1 UJ	µg/L
								WG-9954-062520-SG-008	9.1 UJ	µg/L
								WG-9954-062520-SG-009	9.1 UJ	µg/L
								WG-9954-062520-SG-010	9.1 UJ	µg/L
								WG-9954-062520-SG-011	9.1 UJ	µg/L
								WG-9954-062520-SG-012	9.1 UJ	µg/L
								WG-9954-062520-SG-013	9.1 UJ	µg/L
SVOCs	4-Chloro-3-methylphenol	07/01/2020	83	51	48	52 - 113	30	WG-9954-062420-SG-006	9.1 UJ	µg/L
								WG-9954-062420-SG-007	9.1 UJ	µg/L
								WG-9954-062520-SG-008	9.1 UJ	µg/L
								WG-9954-062520-SG-009	9.1 UJ	µg/L
								WG-9954-062520-SG-010	9.1 UJ	µg/L
								WG-9954-062520-SG-011	9.1 UJ	µg/L
								WG-9954-062520-SG-012	9.1 UJ	µg/L
								WG-9954-062520-SG-013	9.1 UJ	µg/L
SVOCs	4-Nitroaniline	07/01/2020	79	53	39	54 - 133	30	WG-9954-062420-SG-006	9.1 UJ	µg/L
								WG-9954-062420-SG-007	9.1 UJ	µg/L
								WG-9954-062520-SG-008	9.1 UJ	µg/L
								WG-9954-062520-SG-009	9.1 UJ	µg/L
								WG-9954-062520-SG-010	9.1 UJ	µg/L
								WG-9954-062520-SG-011	9.1 UJ	µg/L
								WG-9954-062520-SG-012	9.1 UJ	µg/L
								WG-9954-062520-SG-013	9.1 UJ	µg/L
SVOCs	Isophorone	07/01/2020	76	46	49	50 - 116	30	WG-9954-062420-SG-006	9.1 UJ	µg/L
								WG-9954-062420-SG-007	9.1 UJ	µg/L
								WG-9954-062520-SG-008	9.1 UJ	µg/L
								WG-9954-062520-SG-009	9.1 UJ	µg/L
								WG-9954-062520-SG-010	9.1 UJ	µg/L
								WG-9954-062520-SG-011	9.1 UJ	µg/L
								WG-9954-062520-SG-012	9.1 UJ	µg/L
								WG-9954-062520-SG-013	9.1 UJ	µg/L

Notes:

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 RPD - Relative Percent Difference
 UJ - Not detected; associated reporting limit is estimated
 SVOCs - Semi-volatile Organic Compounds

Table 8

**Qualified Sample Results Due to Outlying MS/MSD Results
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020**

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits		Qualified Result	Units
						% Recovery	RPD		
SVOCs	WG-9954-070120-SG-027	3,3'-Dichlorobenzidine	3	4	29	11 - 131	30	R	µg/L
SVOCs	WG-9954-070120-SG-027	Isophorone	6	7	15	40 - 111	30	R	µg/L
SVOCs	WG-9954-070720-SG-030	Hexachlorocyclopentadiene	6	5	18	10 - 103	30	R	µg/L

Notes:

MS - Matrix Spike
 MSD - Matrix Spike Duplicate
 RPD - Relative Percent Difference
 R - Rejected
 SVOCs - Semi-volatile Organic Compounds

Table 9

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	RB-9954-063020-SG-002	06/30/2020	Phenol	0.94 J	WG-9954-063020-SG-021	1.1 J	9.1 U	µg/L

Notes:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- SVOCs - Semi-volatile Organic Compounds

Table 10

Qualified Sample Data Due to Variability in Field Duplicate Results
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June-July 2020

Parameter	Analyte	RPD	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Pesticides	delta-BHC	55	WG-9954-063020-SG-020	0.068 J	WG-9954-063020-SG-021	0.12 J	µg/L

Notes:

RPD - Relative Percent Difference
J - Estimated concentration

Appendix G

Niagara Falls Water Board

Annual Inspection Letter



NIAGARA FALLS WATER BOARD
ANNUAL PLANT INSPECTION
INDUSTRIAL PRETREATMENT PROGRAM

PAGE 1 OF 6

Name and Address of SIU

Glenn Springs Holding Inc.
Love Canal Leachate Treatment Facility
805 – 97th Street
Niagara Falls, NY 14304

Permit Number: 44

SIC Codes: 4951

Date of Last Inspection: 4/11/2019

CATEGORICAL IU? NO

Day/Date and Time of Inspection:
Friday September 4th, 2020 @ 11:00AM

SIU Representative:

Darrell Crockett

Inspectors Name:

Stephen Stewart

Contact Phone No.: 998-5804

PART I FLOW RECORDING AND SAMPLING INSTRUMENTATION

a) Flow measurement instrument meets permit requirements? **YES**

b) Primary flow measurement device properly installed? **YES**

c) Type of flow measurement device -

Weir []	Flume(s) []	Water meter []	Mag meter [X]
----------	--------------	-----------------	---------------

d) Does device measure flow adequately? **YES**

e) Is primary measuring device properly operated and maintained? [1960.6] **YES**

f) Are secondary instruments (recorders, integrators) properly operated and maintained? [1960.6] **YES**

g) Calibration frequency adequate? (date of last calibration): **Quarterly – August 31st, 2020** **YES**

PART II SAMPLE COLLECTION

- a) Does permit require SIU to submit Periodic Self Monitoring Reports? [40 CFR403.12h] **YES**
- b) If "yes", does the sample collection frequency and pollutant type conform with permit requirements? **YES**
- c) Are the sample collection locations as described in the permit adequate for representative sample collection? [1960.6 (a)] **YES**
- d) Does the method of sample collection conform with permit requirements, **Sewer Use Ordinance** and **Federal Standards**? **YES**
 - i) Sample **refrigerated throughout collection and storage**? **YES**
 - ii) Are samples properly preserved? **YES**
 - iii) Are samples collected using **flow proportion composite** or **grab sampling where appropriate**? [40 CFR12(b)(5)(iii)]. **YES**
 - iv) Sample holding times appropriate? [40 CFR136.3] **YES**

PART III LABORATORY FACILITIES

- a) Is a commercial laboratory used? **YES**
 - i) Name of laboratory: **ALS Environmental**
 - ii) Address: **1565 Jefferson Rd. Rochester, NY 14623**
 - iii) Is laboratory State certified? **YES**
- b) Does SIU perform its own analysis? **NO**
 - i) Is the SIU's laboratory State certified? **N/A**
 - ii) Are your laboratory wastes properly disposed of? **N/A**
- c) Are EPA approved testing methods used? **YES**

PART IV RECORDS AND REPORTS

- | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| a) | Are monitoring records and reports retained in SIU files for at least three years ? [1960.5 (d)(3)] | YES |
| b) | Are all records of sludge volume and disposal practices maintained in files? [1960.5 (d)(2)] | YES |
| c) | Have all hazardous waste discharges been reported to POTW? [40 CFR403.12(p)]. | N/A |
| d) | If hazardous waste is discharged, is a waste minimization plan developed and implemented? | N/A |
| e) | Does the SIU have a valid wastewater discharge permit retained on file? [40 CFR403.8(f)(I)(iii)(A)-(E)] | YES |
| f) | Have all required reports been submitted on time? | YES |
| g) | Do Self Monitoring reports contain necessary information (samplers name, date & time, sample type, flow, preservation, chain of custody, results) ? [40 CFR403.8(f)(3)(vi)]. | YES |

PART V PLANT OPERATION AND MAINTENANCE

- | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------|------------|
| a) | Have there been any accidental discharge(s) that entered the sewer system? | NO |
| | Have they been reported to the POTW as well as other appropriate agencies? [1960.6 (d)] | N/A |
| b) | Is a spill notification procedure conspicuously posted in process areas of the plant?
Issued updated contact list | YES |
| c) | Is there any evidence of spills? | NO |
| d) | Are all hazardous sludges and solids properly disposed of? | YES |

- e) Has this facility been evaluated **OR** re-evaluated for its' potential to experience a slug discharge? 9/4/2020 **YES**
- 1) Is a **Slug Control Plan** required for this facility [40 CFR403.8(f)(2)(vi)] ? **NO**
- A. Has the facility **Developed** and **Implemented** a **Slug Control Plan**? **N/A**
- a. The date of the plan's last update: **N/A**
- b. Is the latest update on file at the NFWB? **N/A**
- c. Does it contain the correct Water Board phone numbers and extensions. **N/A**
- 2) Has the facility experienced a slug discharge since The last inspection? **NO**
- f) Have there been any significant **manufacturing** or **process** changes? [1960.5 (c)] **NO**
List: **None**
- Who was contacted **prior** to implementation of these changes?
N/A Date: **N/A**
- g) Describe your hazardous waste storage area(s).
Double contained in the decontamination/storage facility.
- Do they meet DEC & EPA containment requirements? **YES**
- Are all containers correctly labeled and time limits adhered to? **YES**
- Describe your method of disposal:
Incineration as needed through Veolia Services. at their Port Arthur Texas. Approximately once per quarter.
- h) Regarding the blueprints that you submitted with your last permit application, **have there been any significant changes made to your process or sewer lines?** **NO**
- Have revised blueprints been sent to the WWTP? **N/A**

PART VI PRETREATMENT

- a) Briefly describe all required pretreatment.
Clarifier → Bag filter → Carbon treatment → WWTP

b) Are all pretreatment facilities properly maintained? **YES**

c) How many pH probes does your pH monitoring system contain? **0**

List the frequency for calibration.

N/A

d) To your knowledge, has **anyone** discharged any un-permitted waste or waste not properly pretreated into the sewer system? [40 CFR 403.179] **NO**

e) Were WWTP personal notified? **N/A**

-- Prior to discharge to sewer? **N/A**

-- During or after discharge? **N/A**

Who? **N/A** Date: **N/A** Time: **N/A**

SIU personal who contacted WWTP: **N/A**

Was written notification given to the WWTP **within five (5) working days** of the start of the event? **N/A**
 [40 CFR 403.17a]

Sent to: **N/A** From: **N/A** Date: **N/A**

f) List any pretreatment changes that were made in the past 12 months.
None

Who was contacted **prior** to implementation of these pretreatment changes?
N/A

PART VII COMPLIANCE AND ENFORCEMENT

- | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| a) | Has the SIU had any violations since the last inspection? List: None | NO |
| b) | If numeric violations were noted by SIU, was a repeat sample collection and analysis performed within 30 days and the results submitted to the POTW [40 CFR403.12(g)] ? | N/A |
| c) | Is SIU currently on an administrative order and/or compliance schedule? | NO |
| d) | If yes, have milestone dates on schedule been met? | N/A |
| e) | Was escalating enforcement action required to achieve compliance? Describe: None Required | NO |

PART VIII RECOMMENDATIONS, REQUIREMENTS AND COMMENTS:

Hazardous waste from Love Canal consists of Debris from wells, Clarifier solids, Filters, and PPE.



January 25, 2021

Mr. Darrell Crockett – Facility Manager
Glenn Springs Holding Inc. Love Canal Leachate Treatment Facility
805 – 97th Street
Niagara Falls, New York 14304

Dear Mr. Crockett:

Enclosed please find the results of the Plant Inspection that was conducted at your facility on Friday, September 4th, 2020 @ 11:00AM. These inspections are the annual compliance inspections performed by NFWB as required by 40 CFR §403.8(f)(2)(v).

If you have any questions, I can be reached at 283-9770 ext 1701.

Sincerely,

NIAGARA FALLS WATER BOARD
WASTEWATER FACILITIES

Stephen C. Stewart

Stephen C. Stewart
Senior Industrial Waste Inspector

Cc: J. Paradise → S. Stewart → File: - I-44
Emailed to SIU

Appendix H

Test and Backflow Prevention Device Reports

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2020
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply <u>City of Niagara Falls</u>		Account No.		County <u>Niagara</u>	Block	Lot
Facility Name <u>Glenn Springs Remediations</u>				Location of Device <u>Maintenance BDL</u>		
Address <u>805-95th St. Niagara Falls</u>				Zip		
Device Information	Manufacturer <u>Watts</u>	Type <input checked="" type="checkbox"/> RPZ <input type="checkbox"/> DCV	Model <u>LF009M20T</u>	Size (in inches) <u>1"</u>	Serial Number <u>029613</u>	
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve		Line Pressure <u>73</u> psi
Test before repair	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>		Opened at <u>21</u> psid		Date <u>02</u> <u>25</u> <u>20</u> M D Y
	Pressure drop across first check valve <u>8.0</u> psid					
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y	
					Date _____ M D Y	
Final test	Closed tight <input type="checkbox"/> Pressure drop across first check valve _____ psid	Closed tight <input type="checkbox"/>		Opened at _____ psid		Date _____ M D Y
Water Meter Number <u>34592315</u>		Meter Reading <u>083711</u>		Type of Service: (check one) <input checked="" type="checkbox"/> Domestic • Fire • Other _____		

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name Austin Crossley Certified Tester No. 13192 Signature [Signature] Expiration Date 09/30/22

Property owners (or owners agent) certification that test was performed:

Print Name Daniel G. Gault Title Tech Signature [Signature] Telephone 716 998 5864

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
License Number	Phone ()	m d y	
Representing	Describe minor installation changes		
Address			
City	State	Zip	
Signature _____			

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH- 1013(9/91)

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2020
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply <u>City of Niagara Falls</u>		Account No.	County <u>Niagara</u>	Block	Lot
Facility Name <u>Glen Springs Remediation</u>		Location of Device <u>Treatment Bldg (Mech Room)</u>			
Address <u>805-95th St. Niagara Falls</u>					
Device Information	Manufacturer <u>Watts</u>	Type <input checked="" type="checkbox"/> RPZ <input type="checkbox"/> DCV	Model <u>909</u>	Size (in inches) <u>3"</u>	Serial Number <u>197775</u>
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve	
Test before repair	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>		Opened at <u>20</u> psid	Date <u>02</u> <u>25</u> <u>20</u> M D Y
	Pressure drop across first check valve <u>7.1</u> psid				
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y
Final test	Closed tight <input type="checkbox"/>	Closed tight <input type="checkbox"/>		Opened at _____ psid	Date _____ M D Y
	Pressure drop across first check valve _____ psid				
Water Meter Number <u>3192332A</u>		Meter Reading <u>018223</u> <u>532135</u>	Type of Service: (check one) <input checked="" type="checkbox"/> Domestic • Fire • Other _____		
Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)					
Certification: This device <input checked="" type="checkbox"/> meets, <input type="checkbox"/> does NOT meet, the requirements of an acceptable containment device at the time of testing I hereby certify the foregoing data to be correct. <u>Austin Crasley</u> <u>13197</u> Signature <u>[Signature]</u> <u>09/30/22</u> Print Name Certified Tester No. Expiration Date					
Property owners (or owners agent) certification that test was performed: <u>Daniel Crasley</u> <u>Tech</u> Print Name Title		Signature <u>[Signature]</u>		Telephone <u>716 995 5864</u>	

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
License Number	Phone ()	m d y	
Representing	Describe minor installation changes		
Address			
City	State	Zip	
Signature			

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2010
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply <u>City of Niagara Falls</u>		Account No.	County <u>Niagara</u>	Block	Lot
Facility Name <u>Glenn Springs Remediation</u>			Location of Device <u>Locker Room</u>		
Address <u>905-95th St. Niagara Falls</u>			Zip		
Device Information	Manufacturer <u>Watts</u>	Type <input checked="" type="checkbox"/> RPZ <input type="checkbox"/> DCV	Model <u>909</u>	Size (in inches) <u>1 1/2</u>	Serial Number <u>364897</u>
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve	
Test before repair	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>		Opened at <u>2.1</u> psid	Date <u>02</u> <u>25</u> <u>20</u> M D Y
	Pressure drop across first check valve <u>7.0</u> psid				
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: ____ M ____ D ____ Y
Final test	Closed tight <input type="checkbox"/>	Closed tight <input type="checkbox"/>		Opened at _____ psid	Date ____ M ____ D ____ Y
	Pressure drop across first check valve _____ psid				
Water Meter Number <u>31671117</u>		Meter Reading <u>1323</u>		Type of Service: (check one) <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Fire <input type="checkbox"/> Other _____	

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name Austin Crossley Certified Tester No. 13192

Signature [Signature] Expiration Date 09/30/10

Property owners (or owner's agent) certification that test was performed:

Print Name Daniel G. Gallet Title Tech

Signature [Signature] Telephone 716 998 5884

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
License Number	Phone ()	m d y	
Representing	Describe minor installation changes		
Address			
City State Zip			
Signature			

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2020
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply		City of Niagara Falls		Account No.	County	Block	Lot
Facility Name		Glenn Springs Remediation		Location of Device			
Address		805-95 th St. Niagara Falls		Treatment BDG. (wash down)			
Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number		
	Watts	<input checked="" type="checkbox"/> RPZ <input type="checkbox"/> DCV	009M3QT	3/4"	61327		
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve		Line Pressure	
						74 psi	
Test before repair	Leaked <input type="checkbox"/>	Leaked <input type="checkbox"/>	Opened at		Date		
	Closed tight <input type="checkbox"/>	Closed tight <input checked="" type="checkbox"/>	2.0 psid		02 25 20 M D Y		
Pressure drop across first check valve							
8.0 psid							
Describe repairs and materials used					Repaired by		
					Name _____ Lic # _____ Date repaired: _____ M D Y		
Final test	Closed tight <input type="checkbox"/>	Closed tight <input type="checkbox"/>	Opened at		Date		
	Pressure drop across first check valve				_____ psid M D Y		
Water Meter Number		Meter Reading		Type of Service: (check one)			
N/A		N/A		• Domestic • Fire • <input checked="" type="checkbox"/> Other			

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name Austin Crossley Certified Tester No. 13197 Signature [Signature] Expiration Date 09/30/20

Property owners (or owners agent) certification that test was performed:

Print Name Daniel Ciolek Title Tech Signature [Signature] Telephone 716985864

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

Name	Title	Date	NYS DOH Log #
		m d y	
License Number	Phone ()		
Representing	Describe minor installation changes		
Address			
City	State	Zip	
Signature			

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH- 1013(9/91)

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year 2020
☐ Initial test - Complete entire form
☒ Annual test - Complete Part A only

Public Water Supply		City of Niagara Falls		Account No.	County	Block	Lot
Facility Name <u>Clemon Springs Remediation</u>				Location of Device <u>Treatment Bldg. (Be)</u>			
Address <u>805-95th St. Niagara Falls</u>				Zip			
Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number		
	WATTS	<input checked="" type="checkbox"/> RPZ <input type="checkbox"/> DCV	009020T	2"	179645		
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve		Line Pressure <u>70</u> psi	
Test before repair	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>		Opened at <u>2.2</u> psid		Date <u>02/25/20</u> M D Y	
	Pressure drop across first check valve <u>7.0</u> psid						
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: _____ M D Y		
Final test	Closed tight <input type="checkbox"/>	Closed tight <input type="checkbox"/>		Opened at _____ psid		Date _____ M D Y	
	Pressure drop across first check valve _____ psid						
Water Meter Number <u>N/A</u>		Meter Reading <u>N/A</u>		Type of Service: (check one) • Domestic • Fire • <u>Other Process</u>			

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device ☒ meets, ☐ does NOT meet, the requirements of an acceptable containment device at the time of testing
I hereby certify the foregoing data to be correct.

Print Name Austin Crossley Certified Tester No. 13192 Signature [Signature] Expiration Date 09/30/20

Property owners (or owners agent) certification that test was performed:

Print Name Darrell Godett Title Tech Signature [Signature] Telephone 716 9985804

PART B

Certification that installation is in accordance with the approved plans.

(To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.				Date		NYS DOH Log #	
Name		Title		m d y			
License Number		Phone ()					
Representing		Describe minor installation changes					
Address							
City							
State							
Signature		Zip					

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.

DOH 1013(9/91)

Appendix I

2020 Cap Re**grading** Photographic Log



Photo 1 - View east of depression in access road before regrading



Photo 2 - View northeast of depression in cap before regrading



Cap Regrading Photographs – October 5-13, 2020



Photo 3 - View north of depression in cap before regrading



Photo 4 - View east of depression in access road before regrading



Cap Regrading Photographs – October 5-13, 2020



Photo 5 - View southeast of topsoil brought in to regrade cap



Photo 6 - View northeast of topsoil unloaded to regrade cap



Cap Regrading Photographs – October 5-13, 2020



Photo 7 - View east of access road and equipment used during regrading



Photo 8 - View north of access road after regrading



Cap Regrading Photographs – October 5-13, 2020



Photo 9 - View southeast of access road and cap after regrading



Photo 10 - View southeast of cap after regrading



Cap Regrading Photographs – October 5-13, 2020



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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