Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Joe Branch
Project Manager
Direct Dial (231) 670-6809

7601 Old Channel Trail
Montague, MI 49437

May 24, 2022 Reference No. 11230213

Mr. Andrew Zwack
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
700 Delaware Avenue
Buffalo, NY 14209

Dear Mr. Zwack:

Re: 2021 Periodic Review Report
Love Canal, NYSDEC Site No. 932020
Niagara Falls, Niagara County, New York

Glenn Springs Holdings, Inc. (GSH) has prepared this response to the New York State Department of Environmental Conservation (NYSDEC)'s April 14, 2022 comment letter on the 2021 Periodic Review Report (PRR) for the Love Canal Site (Site) submitted to the NYSDEC on January 31, 2022. The NYSDEC's comments and GSH's responses are provided below.

Comment No. 1, General*: Monitoring well purge and sampling logs will be included in the appendices of the revised PRR.*

***Response*:** As monitoring well purge and sampling logs have not been required to be submitted with the PRR to date, these logs will be included starting with the 2022 PRR.

Comment No. 2, General: *A table will be generated and included in the revised PRR that lists groundwater elevation measured at each monitoring well sampled during the given monitoring period.*

Response*: GSH requests that the NYSDEC provide its objective in requesting that groundwater elevations be provided for monitoring wells sampled during the annual sampling events since this has not been required by the NYSDEC in the past or is it included in the NYSDEC-approved Sampling Manual, Long-Term Groundwater Monitoring Program, dated June 2013 (Sampling Manual). Regardless, a table with these data will be included in the 2022 PRR. The Sampling Manual will be updated to reflect this change and submitted to NYSDEC for approval.

Comment No. 3, Section 3.2.1, Groundwater Quality: *Why are the method reporting limits (MRLs) in some instances equal to or higher than the Groundwater Quality Standards (GWQS) in "clean" monitoring wells? If better data resolution is readily available, it should be applied to the 2022 data collected.*

Response: The Reporting Limits (RLs) for the parameters included in the annual groundwater sampling event are consistent with the Groundwater Quantitation Limits presented in Table B.4.1 of Appendix B of

the NYSDEC-approved Sampling Manual. In addition, concentrations detected at levels less than the RLs but greater than the Method Detection Limits (MDLs) are reported in the PRR and are qualified as estimated (J) values.

Comment No. 4, Section 3.2.1, Groundwater Quality: ***In addition to sampling monitoring well 10178A annually, monitoring well 10178B will also be sampled annually to provide additional support that contamination from monitoring well 10135 is contained by the groundwater collection and treatment system.***

Response: Monitoring well 10178B will be added to the annual sampling list, starting with the annual sampling event scheduled for 2022.

Comment No. 5, Section 3.2.2, Hydraulic Containment: ***Why is piezometer 1150 not included in the hydraulic data collected from the piezometer strings? This piezometer will be gauged and the groundwater elevation data included in the 2022 PRR.***

Response: Piezometer 1150 (A and B) located inside the barrier drain was originally included in the monitoring program; however, was removed in the early 2000s. It is believed this was removed because the screen intervals for both A and B piezometers are located below the bottom of the barrier drain (561.85 feet above mean sea level [ft AMSL]) in the soft clay (B-558.1 to 559.1 ft AMSL) and the glacial till (A-549.5 to 550.5 ft AMSL). As such, hydraulic monitoring of this piezometer would not provide data useful for determining hydraulic containment.

Comment No. 6, Section 3.2.2, Hydraulic Containment: ***This section will be revised to provide a more detailed description of the barrier drain "influence zone." As currently written, this section describes capture of all groundwater outside the barrier drain as "flowing toward and downward into the barrier drain." Data presented in Tables 3.6A to 3.6F show capture of groundwater in the vicinity of the barrier drain, but outward gradients are evident in some of the outer piezometer locations. While this does not appear to be indicative of contaminant migration from the waste disposal area, the PRR will be revised to provide a more thorough understanding of groundwater flow in the overburden.***

Response: The text is Section 3.2.2 is consistent with that in previous PRRs approved by NYSDEC. The term "influence zone" is not used in the report. The PRR does not state that ***all*** groundwater outside the barrier drain is flowing toward and downward into the barrier drain. The hydraulic influence of the barrier drain is the perpendicular distance extending outward from the barrier drain to the farthest piezometer/monitoring well that clearly indicates groundwater flow back toward the barrier drain as indicated on the flow diagrams (Figures 3.3 to 3.8) and the overburden groundwater contour figure (Figure 3.9). This will be added to future PRRs.

Comment No. 7, Table 3.2: ***The GWQS are missing from several pages of the groundwater quality data table. The PRR will be revised to provide the GWQS for all parameters throughout the entire table.***

Response: Revised tables 3.2 and 3.3 to include GWQS on all pages are attached.

Please let us know if you have further comments on the PRR.

Very truly yours,

GLENN SPRINGS HOLDINGS, INC.

JBranch

Joseph Branch
Project Manager

Encl.

cc: B. McPherson, NYSDEC
C. Bethoney, NYSDOH
S. McLaughlin, NYSDOH
D. Duda, USEPA
J. Pentilchuk, GHD
M. Popek, GHD

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:			7120	7120	7130	7132	7155	7161	8106	8110	8120	8130	8140	9110
Sample ID:			WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003	WG-9954-061421-SG-026	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-060921-SG-009
Sample Date:			6/17/2021	6/17/2021 (Duplicate)	6/8/2021	6/8/2021	6/8/2021	6/14/2021	6/11/2021	6/8/2021	6/8/2021	6/8/2021	6/9/2021	6/9/2021
Parameters	**Units**	**Class GA Standard**												
Volatile Organic Compounds														
1,1,1-Trichloroethane	ug/L	5	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	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	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	5.0 U
1,1,2-Trichloroethane	ug/L	1	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	5.0 U
1,1-Dichloroethane	ug/L	5	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	5.0 U
1,1-Dichloroethene	ug/L	5	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	5.0 U
1,2-Dichloroethane	ug/L	0.6	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	5.0 U
1,2-Dichloropropane	ug/L	1	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	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	0.96 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1	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	5.0 U
Bromodichloromethane	ug/L	NA	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	5.0 U
Bromoform	ug/L	NA	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	5.0 U
Bromomethane (Methyl bromide)	ug/L	5	5.0 U	0.88 J	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
Carbon disulfide	ug/L	60	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	ug/L	5	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	5.0 U
Chlorobenzene	ug/L	5	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	5.0 U
Chloroethane	ug/L	5	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	5.0 U
Chloroform (Trichloromethane)	ug/L	7	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	5.0 U
Chloromethane (Methyl chloride)	ug/L	5	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	5.0 U
cis-1,2-Dichloroethene	ug/L	5	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	5.0 U
cis-1,3-Dichloropropene	ug/L	0.4	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	5.0 U
Dibromochloromethane	ug/L	NA	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	5.0 U
Ethylbenzene	ug/L	5	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	5.0 U
Methylene chloride	ug/L	5	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	5.0 U
Styrene	ug/L	5	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	5.0 U
Tetrachloroethene	ug/L	5	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	5.0 U
Toluene	ug/L	5	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	5.0 U
trans-1,2-Dichloroethene	ug/L	5	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	5.0 U
trans-1,3-Dichloropropene	ug/L	0.4	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	5.0 U
Trichloroethene	ug/L	5	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	5.0 U
Vinyl acetate	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	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	5.0 U
Xylenes (total)	ug/L	5	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	5.0 U
Discrete Compounds Detected:			1	1	0	0	0	0	0	0	0	0	0	0
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 UJ	9.1 UJ
2,4-Dichlorophenol	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 UJ	45 U	45 U	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	ND	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	NA	9.1 U	9.1 U	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	5	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:			7120	7120	7130	7132	7155	7161	8106	8110	8120	8130	8140	9110
Sample ID:			WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003	WG-9954-061421-SG-026	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-060921-SG-009
Sample Date:			6/17/2021	6/17/2021 (Duplicate)	6/8/2021	6/8/2021	6/8/2021	6/14/2021	6/11/2021	6/8/2021	6/8/2021	6/8/2021	6/9/2021	6/9/2021
Parameters	**Units**	**Class GA Standard**												
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	50	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	0.04	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	0.5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	NA	9.1 U	9.1 U	9.1 UJ	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	0.4	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated Biphenyls														
Aroclor-1016 (PCB-1016)	ug/L	0.09	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-1221 (PCB-1221)	ug/L	0.09	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	1.8 U
Aroclor-1232 (PCB-1232)	ug/L	0.09	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-1242 (PCB-1242)	ug/L	0.09	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-1248 (PCB-1248)	ug/L	0.09	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-1254 (PCB-1254)	ug/L	0.09	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-1260 (PCB-1260)	ug/L	0.09	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
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Pesticides														
4,4'-DDD	ug/L	0.3	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	ug/L	0.01	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
alpha-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Dieldrin	ug/L	0.004	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	5	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.03	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	35	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.06	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
ND - Not detected
NA - Not available
4.0 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:			9115	9115	9120	9125	9130	9140	9140	10105	10135	10147	10174A	10178A
Sample ID:			WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007
Sample Date:			6/9/2021	6/9/2021 (Duplicate)	6/9/2021	6/9/2021	6/9/2021	6/11/2021	6/11/2021 (Duplicate)	6/11/2021	6/9/2021	6/17/2021	6/17/2021	6/9/2021
Parameters	**Units**	**Class GA Standard**												
Volatile Organic Compounds														
1,1,1-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
2-Hexanone	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
Acetone	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
Benzene	ug/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**6800**	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	75 J	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	60	10 U	10 U	10 U	10 U	10 U	1.0 J	10 U	10 U	2000 U	1.6 J	0.63 J	10 U
Carbon tetrachloride	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**2500**	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**420 J**	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**25000**	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**120 J**	5.0 U	5.0 U	5.0 U
Vinyl acetate	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	5.0 U	5.0 U
Discrete Compounds Detected:			0	0	0	0	0	1	0	0	6	1	1	0
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**51 J**	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**29 J**	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**82 J**	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**23 J**	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	1	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 UJ
2,4-Dichlorophenol	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**140**	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
2,4-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**18 J**	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**28 J**	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	74 J	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**20 J**	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
Acenaphthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	ND	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	5	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	**3600**	45 U	45 U	45 U
Benzyl alcohol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	260	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**18 J**	9.1 U	9.1 U	9.1 U

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:			9115	9115	9120	9125	9130	9140	9140	10105	10135	10147	10174A	10178A
Sample ID:			WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007
Sample Date:			6/9/2021	6/9/2021 (Duplicate)	6/9/2021	6/9/2021	6/9/2021	6/11/2021	6/11/2021 (Duplicate)	6/11/2021	6/9/2021	6/17/2021	6/17/2021	6/9/2021
Parameters	**Units**	**Class GA Standard**												
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Chrysene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	50	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	0.04	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	0.5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	0.4	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
Phenanthrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**40 J**	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	13	0	0	0
Polychlorinated Biphenyls														
Aroclor-1016 (PCB-1016)	ug/L	0.09	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-1221 (PCB-1221)	ug/L	0.09	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	1.8 U
Aroclor-1232 (PCB-1232)	ug/L	0.09	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-1242 (PCB-1242)	ug/L	0.09	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-1248 (PCB-1248)	ug/L	0.09	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-1254 (PCB-1254)	ug/L	0.09	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-1260 (PCB-1260)	ug/L	0.09	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
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Pesticides														
4,4'-DDD	ug/L	0.3	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**0.80**	0.045 U	0.045 U	0.045 U
alpha-BHC	ug/L	0.01	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**21**	0.045 U	0.045 U	0.045 U
alpha-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**6.6**	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**8.8**	0.045 U	0.045 U	0.045 U
Dieldrin	ug/L	0.004	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	5	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**4.0**	0.045 U	0.045 U	0.045 U
gamma-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.03	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	35	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.06	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	5	0	0	0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
ND - Not detected
NA - Not available
4.0 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.3

2021 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-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061021-SG-016	WG-9954-061621-SG-033	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061421-SG-025	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029
Sample Date:			6/11/2021	6/17/2021	6/16/2021	6/10/2021	6/16/2021	6/16/2021	6/15/2021	6/14/2021	6/17/2021	6/14/2021	6/15/2021	6/15/2021 (Duplicate)
Parameters	**Units**	**Class GA Standard**												
Volatile Organic Compounds														
1,1,1-Trichloroethane	ug/L	5	5.0 U	5.0 U	25 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
1,1,2,2-Tetrachloroethane	ug/L	5	5.0 U	5.0 U	25 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
1,1,2-Trichloroethane	ug/L	1	5.0 U	5.0 U	25 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
1,1-Dichloroethane	ug/L	5	5.0 U	5.0 U	25 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
1,1-Dichloroethene	ug/L	5	5.0 U	5.0 U	25 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
1,2-Dichloroethane	ug/L	0.6	5.0 U	5.0 U	25 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
1,2-Dichloropropane	ug/L	1	5.0 U	5.0 U	25 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
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	10 U	1.0 J	50 U	10 U	10 U	10 U	10 U	10 U	4.0 J	10 U	10 U	10 U
2-Hexanone	ug/L	NA	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	10 U	10 U	50 U	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	NA	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	19	10 U	10 U	10 U
Benzene	ug/L	1	5.0 U	5.0 U	25 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
Bromodichloromethane	ug/L	NA	5.0 U	5.0 U	25 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
Bromoform	ug/L	NA	5.0 U	5.0 U	25 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
Bromomethane (Methyl bromide)	ug/L	5	5.0 U	5.0 U	25 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
Carbon disulfide	ug/L	60	0.51 J	3.2 J	31 J	3.5 J	8.1 J	12	10 U	2.6 J	4.5 J	3.5 J	0.48 J	10 U
Carbon tetrachloride	ug/L	5	5.0 U	5.0 U	25 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
Chlorobenzene	ug/L	5	5.0 U	5.0 U	25 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
Chloroethane	ug/L	5	5.0 U	5.0 U	25 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
Chloroform (Trichloromethane)	ug/L	7	5.0 U	5.0 U	25 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
Chloromethane (Methyl chloride)	ug/L	5	5.0 U	5.0 U	25 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
cis-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	25 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
cis-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	25 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
Dibromochloromethane	ug/L	NA	5.0 U	5.0 U	25 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
Ethylbenzene	ug/L	5	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.26 J	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	5.0 U	5.0 U	25 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
Styrene	ug/L	5	5.0 U	5.0 U	25 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
Tetrachloroethene	ug/L	5	5.0 U	5.0 U	25 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
Toluene	ug/L	5	5.0 U	5.0 U	25 U	0.42 J	5.0 U	5.0 U	5.0 U	5.0 U	0.24 J	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	25 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
trans-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	25 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
Trichloroethene	ug/L	5	5.0 U	5.0 U	25 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
Vinyl acetate	ug/L	NA	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	5.0 U	5.0 U	25 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
Xylenes (total)	ug/L	5	5.0 U	5.0 U	25 U	0.49 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds Detected:			1	2	1	4	1	1	0	1	5	1	1	0
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 UJ	45 UJ	45 U	45 UJ	45 UJ	45 UJ
2,4-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	NA	3.1 J	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	ND	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	5	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 3.3

2021 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-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061021-SG-016	WG-9954-061621-SG-033	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061421-SG-025	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029
Sample Date:			6/11/2021	6/17/2021	6/16/2021	6/10/2021	6/16/2021	6/16/2021	6/15/2021	6/14/2021	6/17/2021	6/14/2021	6/15/2021	6/15/2021 (Duplicate)
Parameters	**Units**	**Class GA Standard**												
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	50	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	0.04	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	0.5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	0.4	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:			1	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated Biphenyls														
Aroclor-1016 (PCB-1016)	ug/L	0.09	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-1221 (PCB-1221)	ug/L	0.09	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	1.8 U
Aroclor-1232 (PCB-1232)	ug/L	0.09	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-1242 (PCB-1242)	ug/L	0.09	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-1248 (PCB-1248)	ug/L	0.09	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-1254 (PCB-1254)	ug/L	0.09	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-1260 (PCB-1260)	ug/L	0.09	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
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Pesticides														
4,4'-DDD	ug/L	0.3	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	ug/L	0.01	0.045 U	**0.078**	**0.18**	**0.042 J**	**0.025 J**	0.045 U	0.045 U	0.045 U	**0.082**	0.051 U	0.050 U	**0.13**
alpha-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.04	0.045 U	**0.28**	**0.66**	**0.28**	**0.051**	0.045 U	0.045 U	0.045 U	**0.065**	**0.082**	**0.12 J**	**0.29 J**
Dieldrin	ug/L	0.004	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	5	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.05	0.045 U	0.045 U	**0.22**	**0.090**	0.033 J	0.045 U	0.045 U	0.045 U	**0.078**	**0.076**	**0.075 J**	**0.23 J**
gamma-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.03	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	35	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.06	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:			0	2	3	3	3	0	0	0	3	2	2	3

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ND - Not detected
NA - Not available
0.18 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.3

2021 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-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034	WG-9954-061021-SG-019	WG-9954-061021-SG-018	WG-9954-061021-SG-017	WG-9954-061721-SG-043	WG-9954-061721-SG-042
Sample Date:			6/15/2021	6/17/2021	6/17/2021	6/16/2021	6/10/2021	6/10/2021	6/10/2021	6/17/2021	6/17/2021
Parameters	**Units**	**Class GA Standard**									
Volatile Organic Compounds											
1,1,1-Trichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	1	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	1	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	10 U	2.3 J	1.6 J	50 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NA	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	NA	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	60	3.6 J	**150**	11	24 J	3.5 J	3.4 J	4.0 J	2.1 J	2.0 J
Carbon tetrachloride	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	5.0 U	0.32 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5	5.0 U	0.49 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5	5.0 U	0.33 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	5.0 U	5.0 U	5.0 U	4.9 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	ug/L	NA	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	ug/L	5	5.0 U	0.48 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds Detected:			1	6	2	2	1	1	1	1	1
Semi-volatile Organic Compounds											
1,2,4-Trichlorobenzene	ug/L	5	9.1 U	9.1 U	9.1 U	**6.3 J**	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	1	45 UJ	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	ND	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	5	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 3.3

2021 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-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034	WG-9954-061021-SG-019	WG-9954-061021-SG-018	WG-9954-061021-SG-017	WG-9954-061721-SG-043	WG-9954-061721-SG-042
Sample Date:			6/15/2021	6/17/2021	6/17/2021	6/16/2021	6/10/2021	6/10/2021	6/10/2021	6/17/2021	6/17/2021
Parameters	**Units**	**Class GA Standard**									
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	50	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	0.04	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	0.5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	0.4	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:			0	0	0	1	0	0	0	0	0
Polychlorinated Biphenyls											
Aroclor-1016 (PCB-1016)	ug/L	0.09	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-1221 (PCB-1221)	ug/L	0.09	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
Aroclor-1232 (PCB-1232)	ug/L	0.09	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-1242 (PCB-1242)	ug/L	0.09	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-1248 (PCB-1248)	ug/L	0.09	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-1254 (PCB-1254)	ug/L	0.09	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-1260 (PCB-1260)	ug/L	0.09	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
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0
Pesticides											
4,4'-DDD	ug/L	0.3	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.038 J	0.045 U	0.045 U
alpha-BHC	ug/L	0.01	**0.065**	**0.43**	**0.17**	**0.13**	**0.026 J**	**0.10 J**	**0.12**	0.045 U	0.045 U
alpha-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.037 J	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.04	**0.20 J**	0.045 U	**0.14**	0.045 U	**0.17**	**0.16 J**	**0.18**	0.045 U	0.045 U
Dieldrin	ug/L	0.004	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	5	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.05	**0.11**	0.045 U	**0.17**	**0.093**	**0.073**	**0.12**	**0.26 J**	0.045 U	0.045 U
gamma-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.04	R	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.03	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	35	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.06	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:			3	1	3	2	3	4	4	0	0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ND - Not detected
NA - Not available
0.18 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

2021 Site Management Periodic Review Report

Love Canal Site

NYSDEC Site No. 932020
Niagara Falls, New York

Glenn Springs Holdings, Inc.

31 January 2022

→ The Power of Commitment

Contents

Table index

Figure index

Appendices

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 was prepared on behalf of OCC and covers operation, maintenance, and monitoring activities for 2021. The completed 2021 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 collect overburden groundwater, functioning as designed. No major maintenance was required during 2021. 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 11 and October 14, 2021, and inspections of the barrier drain pump chambers were conducted on May 18 and July 20, 2021. 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 2021 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 2021.

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 2021, the leachate collection system at 102nd Street pumped 118,415 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 251 days in 2021.

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. At the request of the NFWB, the LCTF temporarily ceased discharging to the sewer system on July 21, 2021 due to heavy rain. Discharge to the sewer resumed on July 22, 2021.

In 2021, the LCTF processed a total of 3,958,023 gallons of leachate. This total was comprised of 3,839,608 gallons of leachate from the Site and 118,415 gallons of leachate from the 102nd Street Landfill.

Table 3.1 shows the monthly total and average treated groundwater quantities from 2000 through 2021.

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 2021 were as follows:

Quarter 1: December 1 – February 28
Quarter 2: March 1 – May 31
Quarter 3: June 1 – August 31
Quarter 4: September 1 – November 30

The quarterly effluent sampling for 2021 was performed on January 27, March 9, June 7, and September 7, 2021. 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 2021, precipitation in the Niagara Falls region totaled 21.26 inches (Niagara Falls International Airport, National Climatic Data Center). Table 3.1 provides historical regional precipitation data from 2000 through 2021.

3.2 Groundwater Monitoring

Groundwater monitoring consists of both chemical monitoring and hydraulic monitoring. Chemical monitoring is performed to determine groundwater quality in both the overburden and bedrock. Hydraulic monitoring is performed in the overburden to demonstrate hydraulic containment created by the barrier drain, and in the bedrock to illustrate the groundwater potentiometric surface. It should be noted that overburden and bedrock groundwater flow regimes are hydraulically separated by relatively impermeable clay and till in the lower portion of the overburden.

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 2021 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 2021 annual groundwater chemical monitoring event was performed between June 8 and June 17, 2021. As part of the annual groundwater chemical monitoring in 2021, 41 monitoring wells were sampled, comprised of 21 overburden and 20 bedrock monitoring wells.

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 2021 annual sampling event. The NYSDEC observed a portion of the groundwater sampling activities conducted on June 17, 2021.

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. These tables also include a comparison of the detected concentrations to the NYSDEC Class GA Groundwater Standards. 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 Control

The 2021 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). Concentrations of VOCs, SVOCs, and pesticides exceeding the NYSDEC Class GA Groundwater Standards were identified in Well 10135. These impacts are captured by the Site's barrier drain collection system, as discussed below.

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.

3.2.1.2 Bedrock Monitoring Wells

The 2021 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.

Only one VOC and one SVOC were detected in the bedrock monitoring wells at concentrations above NYSDEC Class GA Groundwater Standards. The VOC carbon disulfide was detected at 150 µg/L in well 10225A (Standard of 60 µg/L) and the SVOC 1,2,4-trichlorobenzene was detected at 6.3 µg/L (estimated) in well 10225C (Standard of 5 µg/L). These concentrations are consistent with the low-level concentrations of VOCs and SVOCs sporadically detected in the bedrock wells. Concentrations of pesticides exceeding the NYSDEC Class GA Groundwater Standards were identified in several bedrock wells, including two monitoring wells (8210 and 6209) upgradient of the waste disposal area with respect to bedrock groundwater flow (see Section 3.2.2). These low-level detections in bedrock groundwater are consistent with historical detections at the Site and are not indicative of chemical migration.

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 2021. 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 2021 sampling data for the four wells mentioned above shows that the compounds detected in 2021 are present at sporadic low- level concentrations or concentrations consistent with historical trends.

3.2.2 Hydraulic Containment

Hydraulic monitoring within the overburden 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) to demonstrate the hydraulic containment created by the barrier drain. 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 2021, water levels were measured in March, June, August, 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 overburden 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 August 2021 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, June, and December 2021) demonstrate that the data from those monitoring periods are consistent with the August 2021 data.

An overburden groundwater potentiometric contour figure was prepared using the August 2021 water elevations from the six nested piezometer strings, overburden well 10176C, and four additional overburden wells (7161, 9130, 9140, and 10135) as requested by NYSDEC. As requested by the USEPA in its Fourth Five-Year Review Report for the Site and agreed to by the NYSDEC, a bedrock groundwater potentiometric contour figure was prepared using the August 2021 water elevations from the seven bedrock monitoring wells included in the hydraulic monitoring program. The August 2021 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 1.02 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 2021 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 2021. Therefore, there was an inward gradient extending from Piezometer 1165A through Well 10135 and into the barrier drain during all four quarters of 2021. 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 August 2021 hydraulic monitoring event.

Monitoring will continue during 2022 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 2021, the quarterly NAPL checks at MW-3 were conducted on March 15, June 3, August 31, and December 2. No NAPL or visible sheen was observed.

3.2.4 Well Maintenance

The 2021 well inspections identified the need for routine maintenance on several wells at the Site. Maintenance was conducted during the summer of 2021 and included the following:

– Replacement of locks and J-plugs.
– Installation of additional bentonite and concrete in the annular space beneath the curb box (outside of the well casing) at piezometer 1153B.

3.2.5 Summary of Treatment and Monitoring Results

The volume of effluent discharge from the LCTF increased from 3,356,298 gallons in 2020 to 3,958,023 gallons in 2021. 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 overburden 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 low-level detections in bedrock groundwater identified in 2021 are consistent with historical detections at the Site and are not indicative of chemical migration.

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 2021 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:

– Performance of preventative maintenance
– Repair and maintenance of pump chambers and flow meters
– Repair and maintenance of fences and gates
– Grass cutting and tree and flower bed maintenance
– Repair of phone lines
– Heating and cooling system maintenance
– Replacement of the treatment building heat exchanger
– Repair and replacement of lights
– Removal of trees along 95th Street
– Performance of minor well maintenance

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 2021:

– 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 2021.

4.3.3 Communications

All required reports were prepared and submitted to various agencies throughout the year. Reports included the 2020 Annual Hazardous Waste Report to the NYSDEC, the 2020 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 2020 was issued to surrounding citizens and agencies in April 2021. 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 2021, 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 43,478 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 2021 were disposed through incineration by Veolia ES Technical Solutions, LLC.

The hazardous waste shipped off Site for disposal in 2021 consisted of 43,478 pounds of soil/debris, consisting of personal protective equipment (PPE), spent filter bags, and general debris.

4.5 Routine Operations, Inspection and Monitoring

A daily inspection of the system operations was performed for each day in 2021 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 24, 2021 and October 14, 2021. No issues were identified.

The NYSDEC conducted a Site inspection (landfill and treatment system) on June 17, 2021. No issues were identified. The NYSDEC conducted a hazardous waste compliance inspection of the Site on July 28, 2021. No violations were observed.

The NFWB performed an annual inspection of the LCTF and performed verification sampling of the effluent discharge on January 28, 2021. 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 2021 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, NYSDOH, 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.

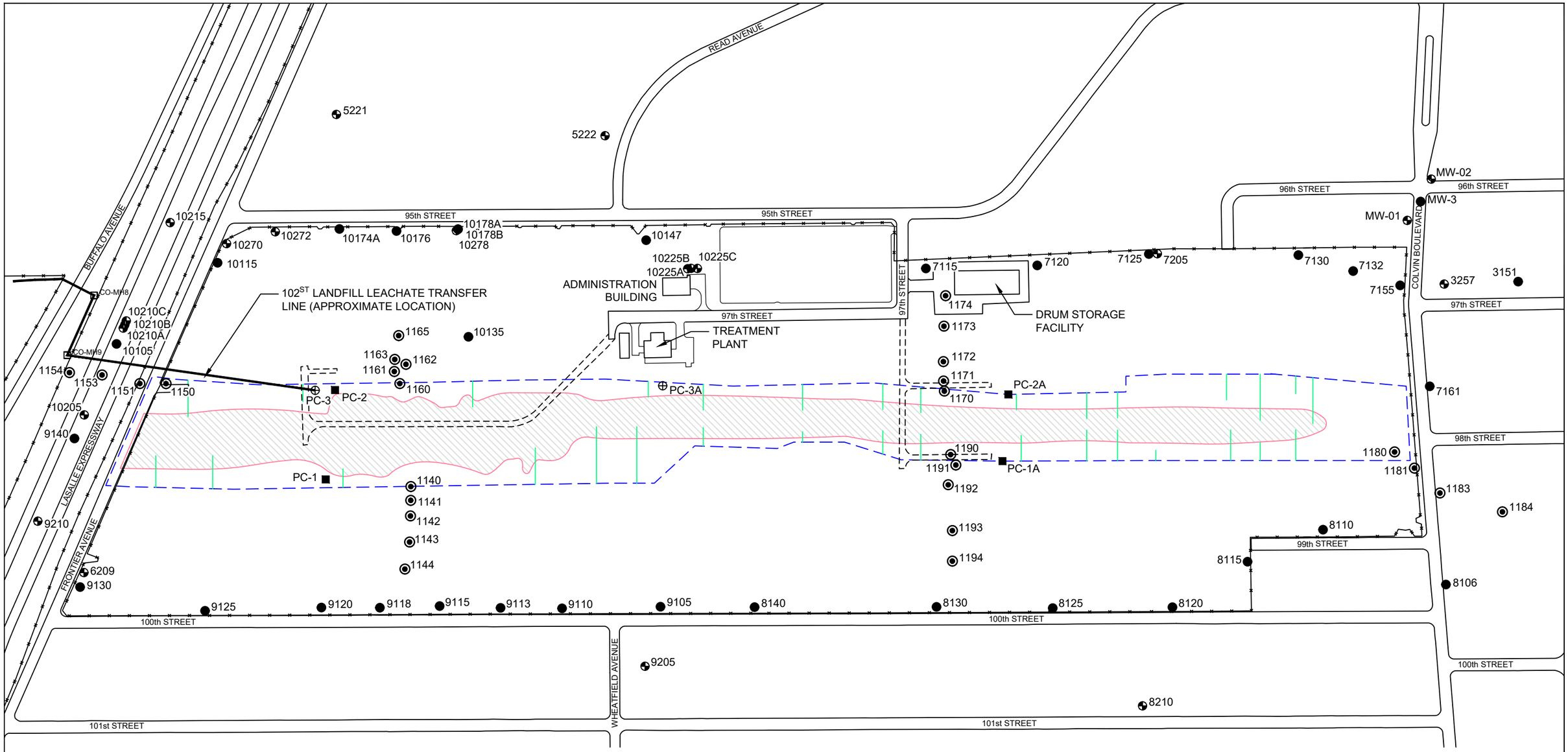
The backflow preventer system on the potable water supply lines was inspected and tested by CamTech Plumbing and Mechanical Inc. (CamTech) on March 4, 2021. CamTech is licensed and certified by the NFWB to perform the backflow preventer system inspections. All five backflow prevention devices were found to be operational with no maintenance required. A copy of the 2021 Test and Maintenance of Backflow Prevention Device Report for each device is presented in Appendix H.

The annual fire system inspection was conducted on March 30, 2021. No major issues were identified.

5. Conclusion

The 2021 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 3,958,023 gallons of leachate collected, treated, and discharged from the Site, of which 3,839,608 gallons of leachate were collected from the Site, and 118,415 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.



LEGEND

- FENCE LINE
- BARRIER DRAIN
- LATERAL TRENCH
- 7105 PIEZOMETER
- 9120 OVERBURDEN OBSERVATION WELL
- 10270 BEDROCK OBSERVATION WELL
- PC-1 PUMP CHAMBER FOR LEACHATE COLLECTION
- PC-3 PUMP CHAMBER / UNDERGROUND LEACHATE STORAGE TANK FOR LEACHATE COLLECTION AND TRANSFER
- CO-MH3 FORCEMAIN CLEAN OUT MANHOLE
- APPROXIMATE LIMITS OF DISPOSED WASTE

NOTE:
WELL 3151 IS UNABLE TO BE LOCATED
(ASSUMED TO BE PAVED OVER)

0 125 250 ft
1" = 250 ft

N

GHD

GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

SITE PLAN

Project No. **11230213**
Date **December 2021**

FIGURE 2.1

Filename: \\ghdnetjghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0101_WA-001.DWG
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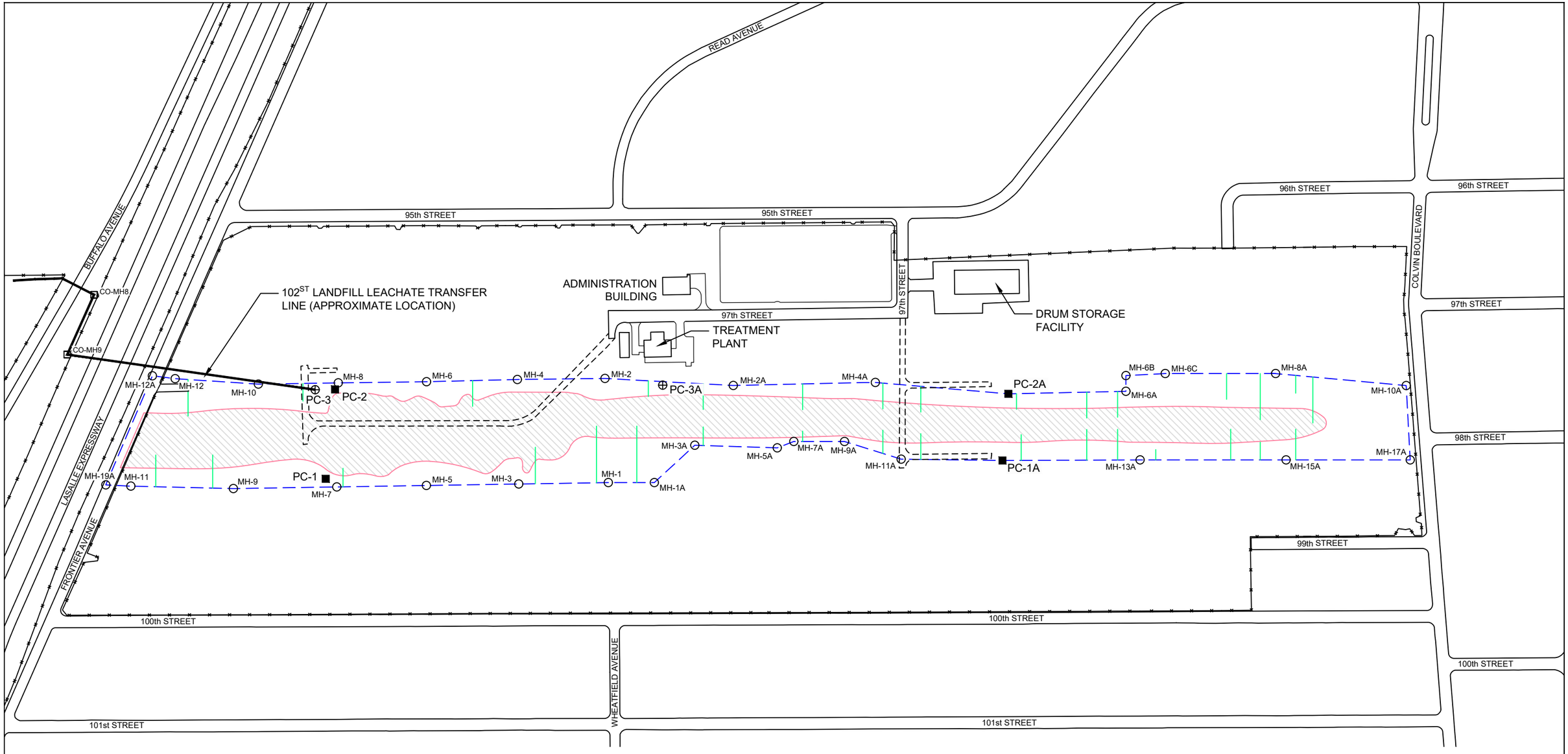

LEGEND

- FENCE LINE
- BARRIER DRAIN
- LATERAL TRENCH
- MH-1 — MANHOLE LOCATION
- PC-1 — PUMP CHAMBER FOR LEACHATE COLLECTION
- PC-3 — PUMP CHAMBER / UNDERGROUND LEACHATE STORAGE TANK FOR LEACHATE COLLECTION AND TRANSFER
- CO-MH3 — FORCEMAIN CLEAN OUT MANHOLE
- APPROXIMATE LIMITS OF DISPOSED WASTE

0 125 250 ft

1" = 250 ft

N

GHD

GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

Project No. **11230213**
Date **December 2021**

MANHOLE LOCATIONS

FIGURE 2.2

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0102_WA-001.DWG
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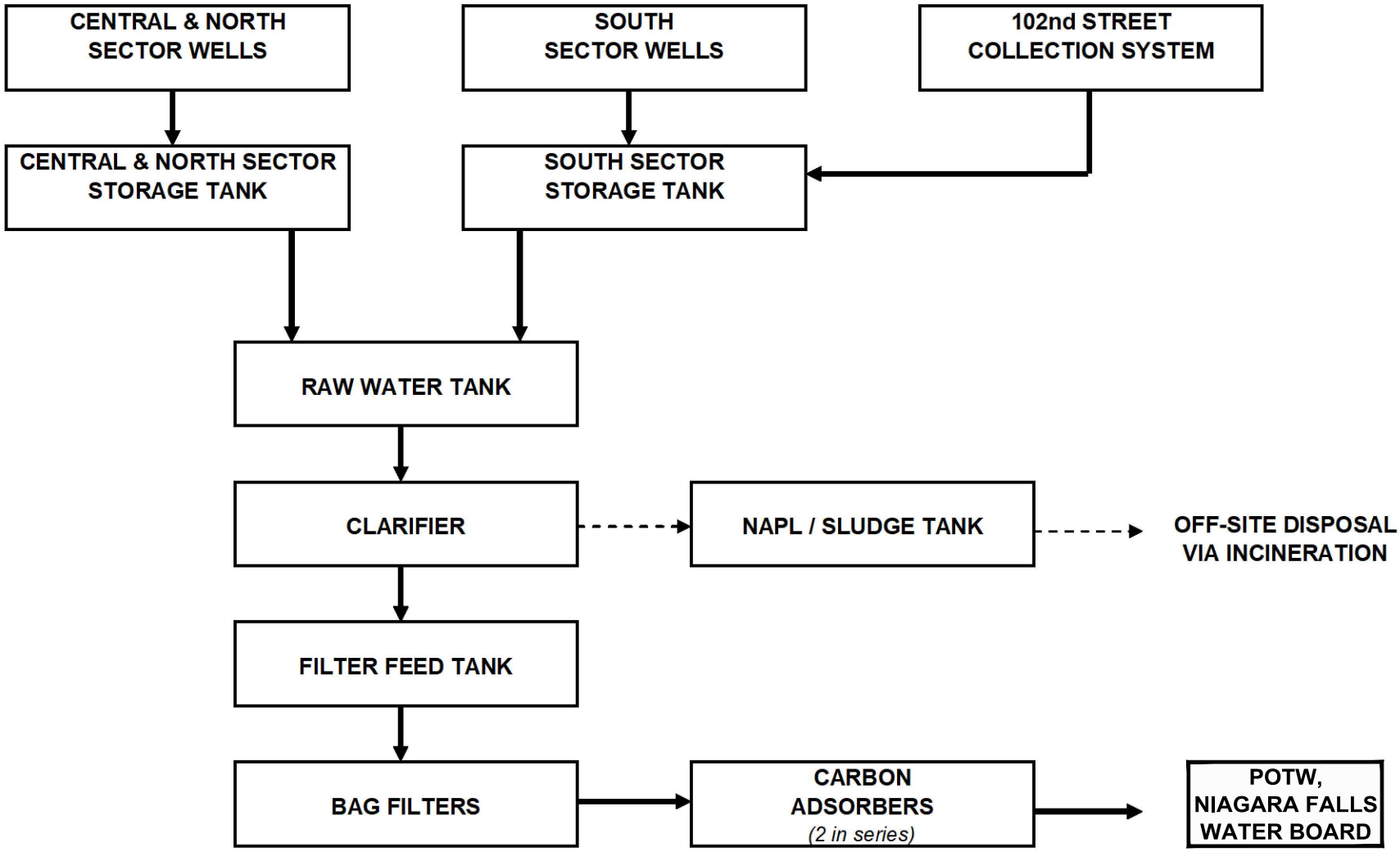

GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

Project No. **11230213**
Date **December 2021**

PROCESS SCHEMATIC

FIGURE 3.1

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0103_WA-001.DWG
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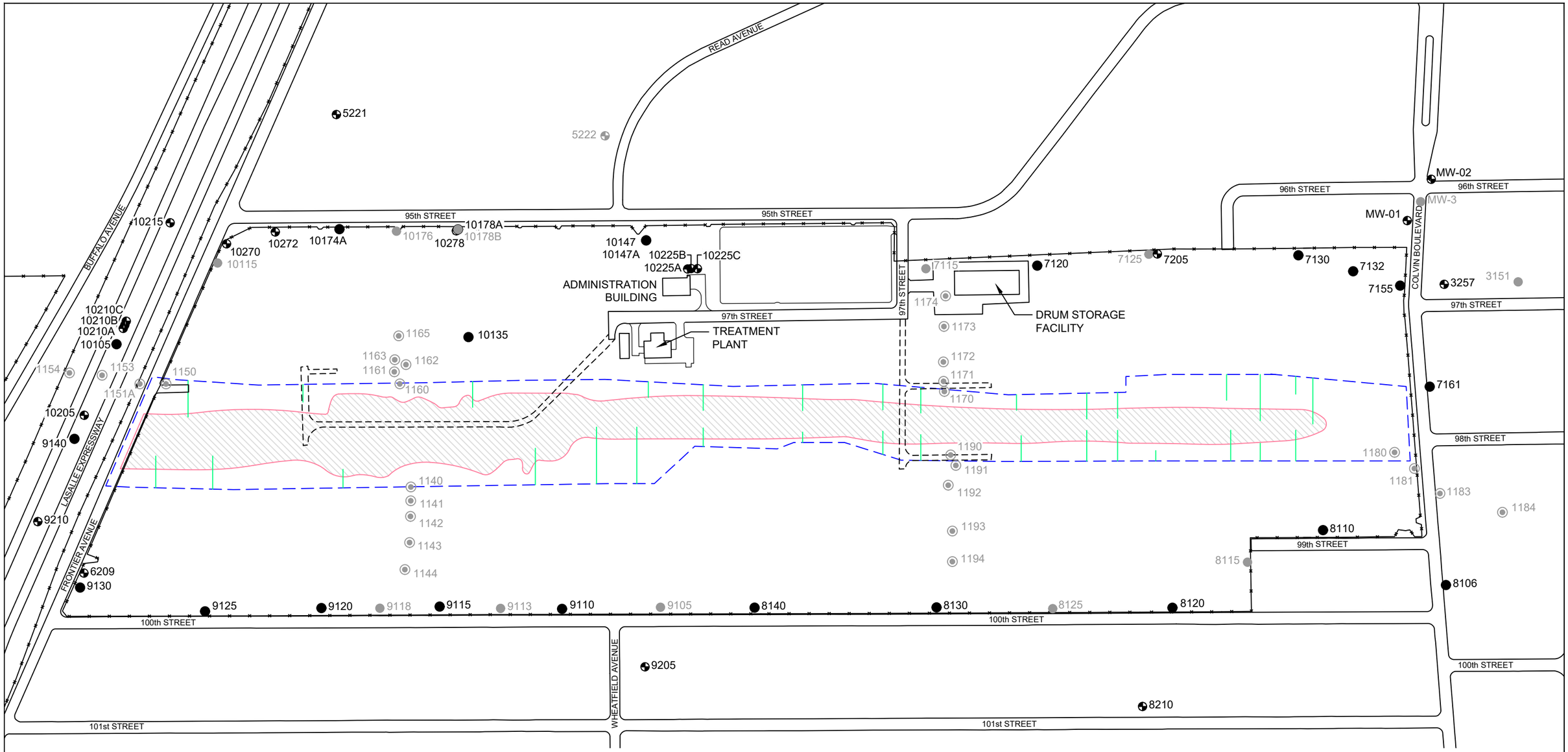

LEGEND

- FENCE LINE
- BARRIER DRAIN
- LATERAL TRENCH
- 7105 PIEZOMETER
- 9122 OVERBURDEN OBSERVATION WELL
- 5222 BEDROCK OBSERVATION WELL
- 7120 OVERBURDEN OBSERVATION WELL SAMPLED IN 2021
- 3257 BEDROCK OBSERVATION WELL SAMPLED IN 2021
- APPROXIMATE LIMITS OF DISPOSED WASTE

NOTE:
WELL 3151 IS UNABLE TO BE LOCATED
(ASSUMED TO BE PAVED OVER)

0 125 250 ft
1" = 250 ft

N

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GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

2021 GROUNDWATER MONITORING LOCATIONS

Project No. **11230213**
Date **January 2022**

FIGURE 3.2

Filename: N:\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0104_WA-001.DWG
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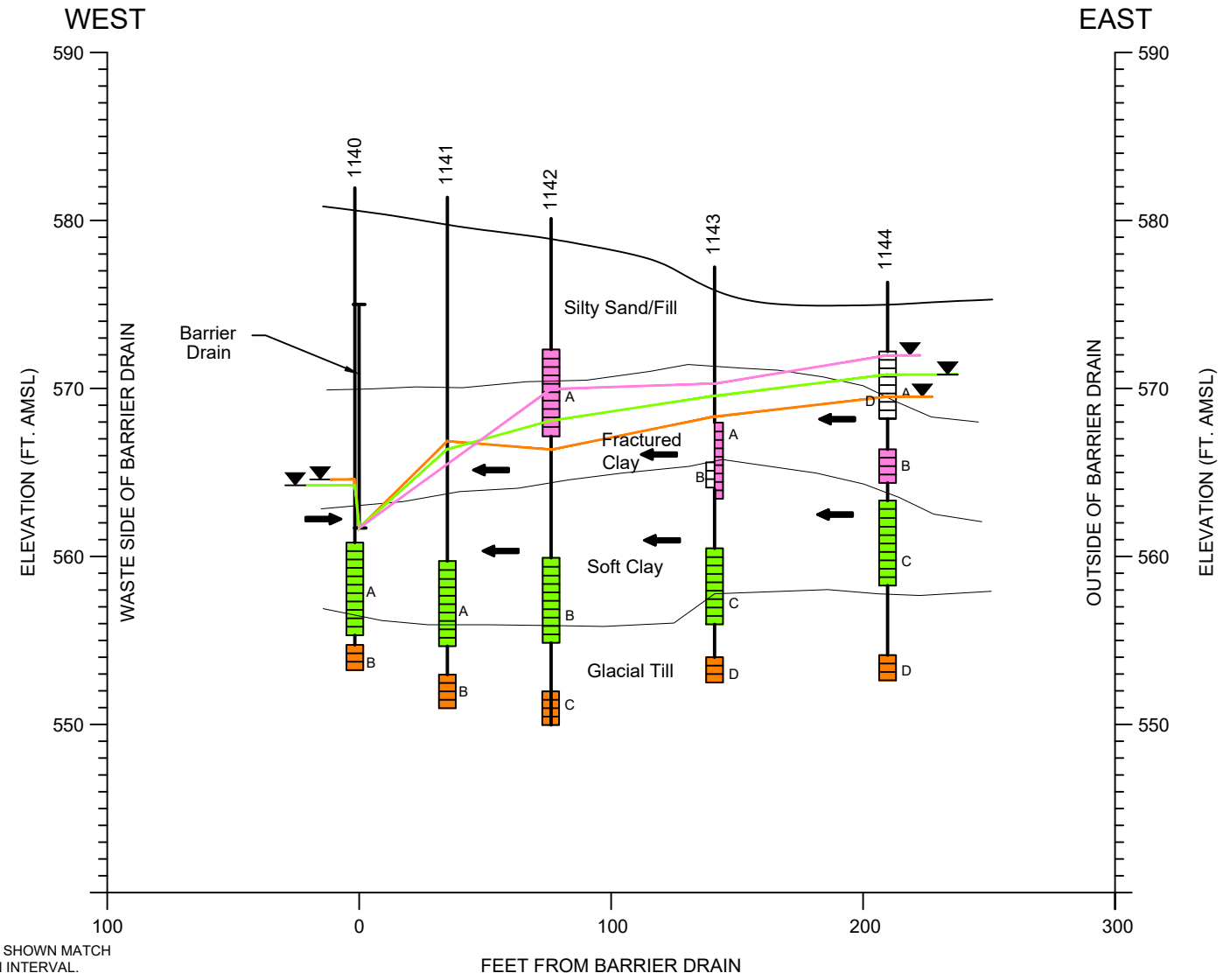

NOTES:
(1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

LEGEND

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

GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 2021 FLOW DIAGRAM
1140 SERIES PIEZOMETERS

Project No. **11230213**
Date **December 2021**

FIGURE 3.3

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0105_WA-001.DWG
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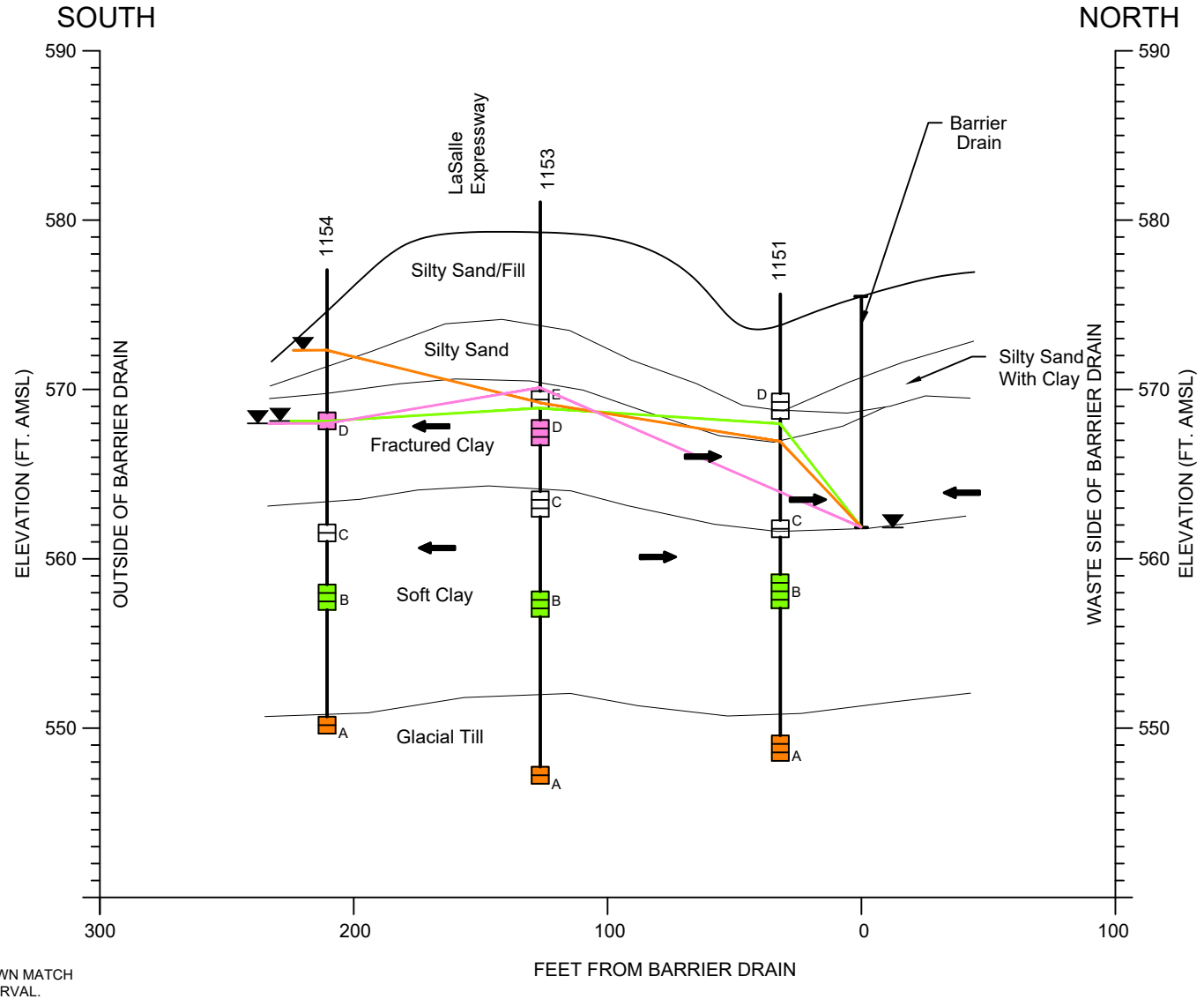

NOTES:

(1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.

(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

LEGEND

A PIEZOMETER DESIGNATION

FLOW DIRECTION

SCREENED INTERVAL

GLACIAL TILL GROUNDWATER LEVEL

FRACTURED CLAY GROUNDWATER LEVEL

SOFT CLAY GROUNDWATER LEVEL

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GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 2021 FLOW DIAGRAM
1150 SERIES PIEZOMETERS

Project No. **11230213**
Date **December 2021**

FIGURE 3.4

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0106_WA-001.DWG
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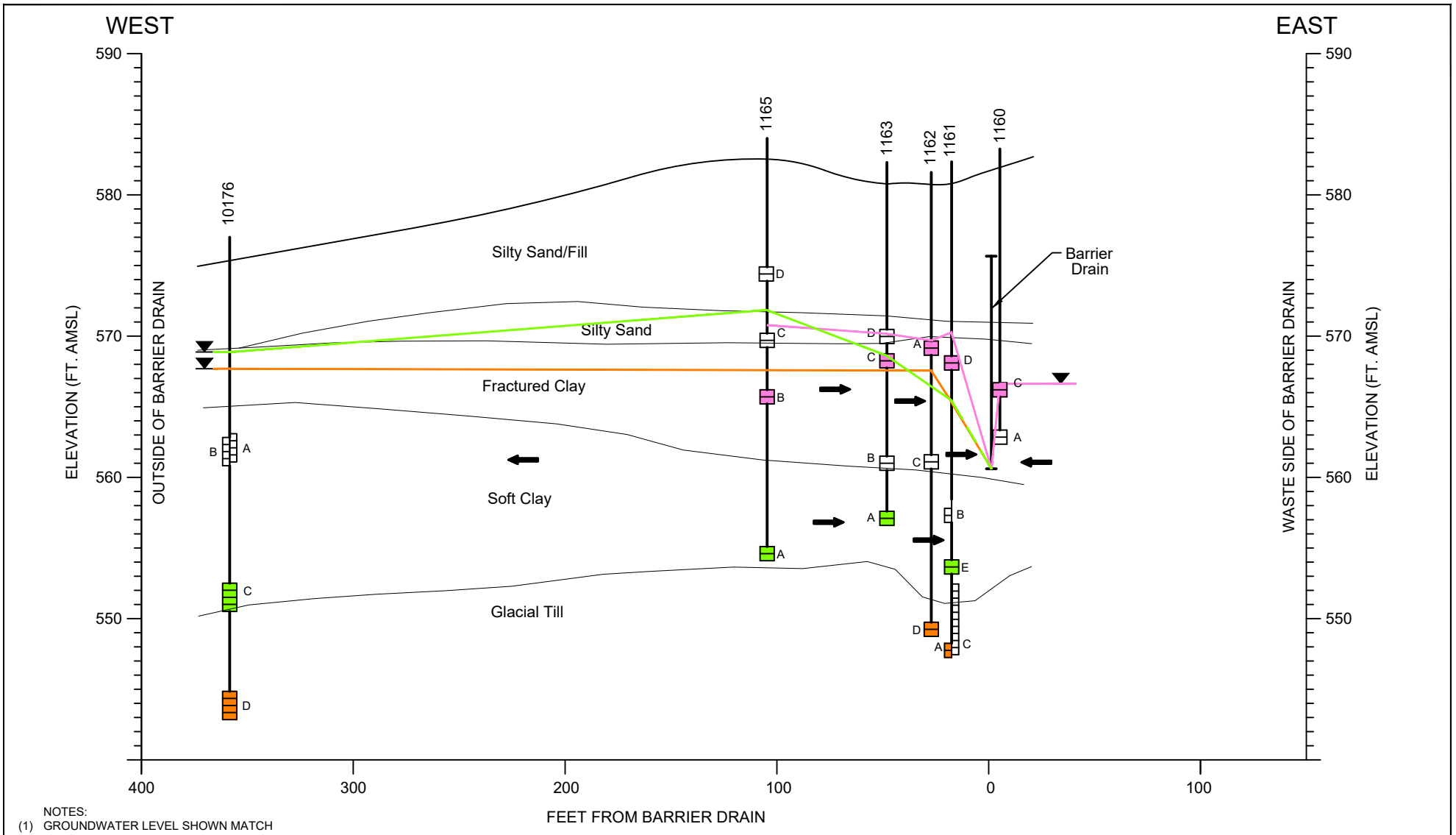

NOTES:
(1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

LEGEND

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

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GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 2021 FLOW DIAGRAM
1160 SERIES PIEZOMETERS

Project No. **11230213**
Date **December 2021**

FIGURE 3.5

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0107_WA-001.DWG
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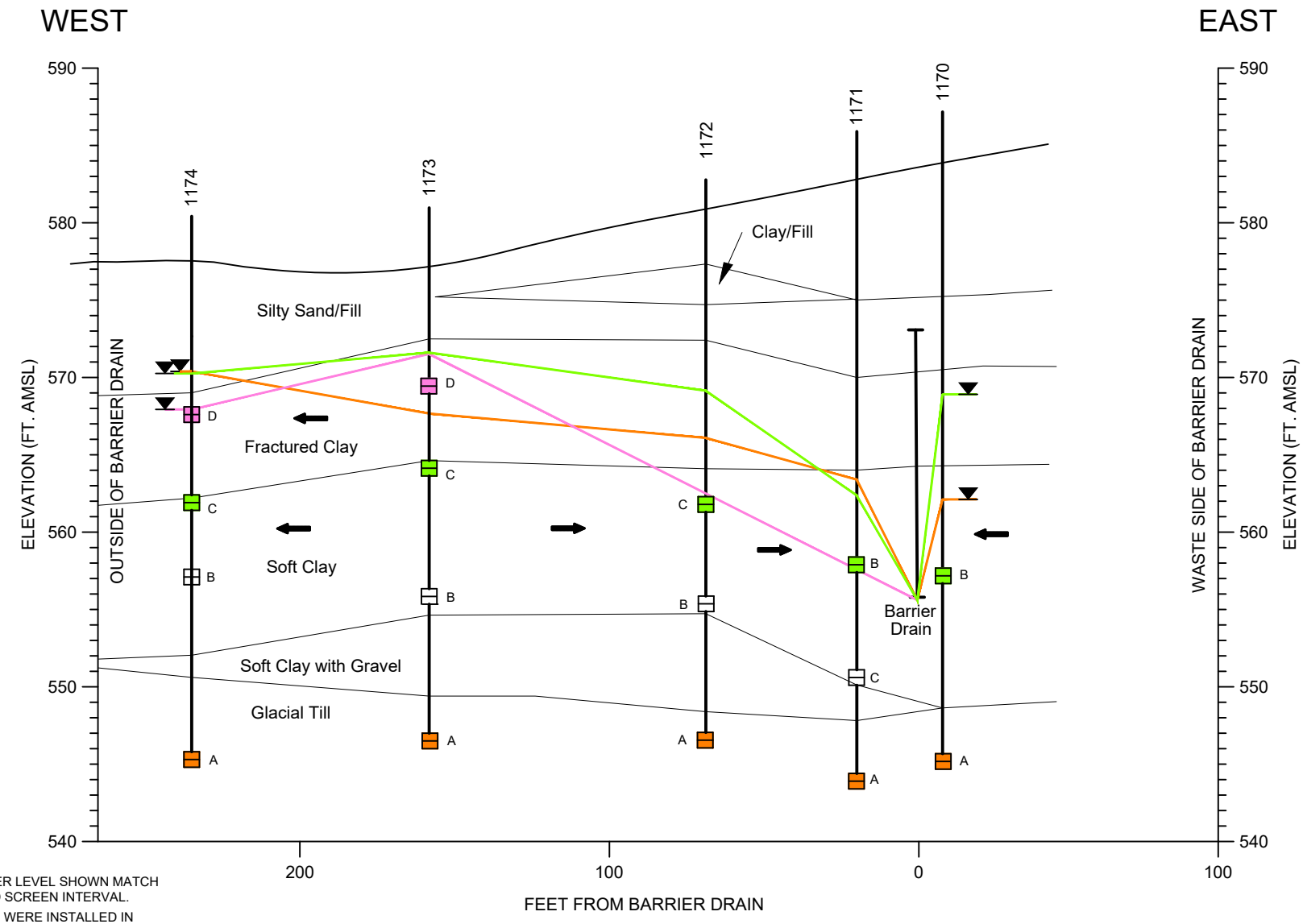

NOTES:
(1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

LEGEND

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

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GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 2021 FLOW DIAGRAM
1170 SERIES PIEZOMETERS

Project No. **11230213**
Date **December 2021**

FIGURE 3.6

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0108_WA-001.DWG
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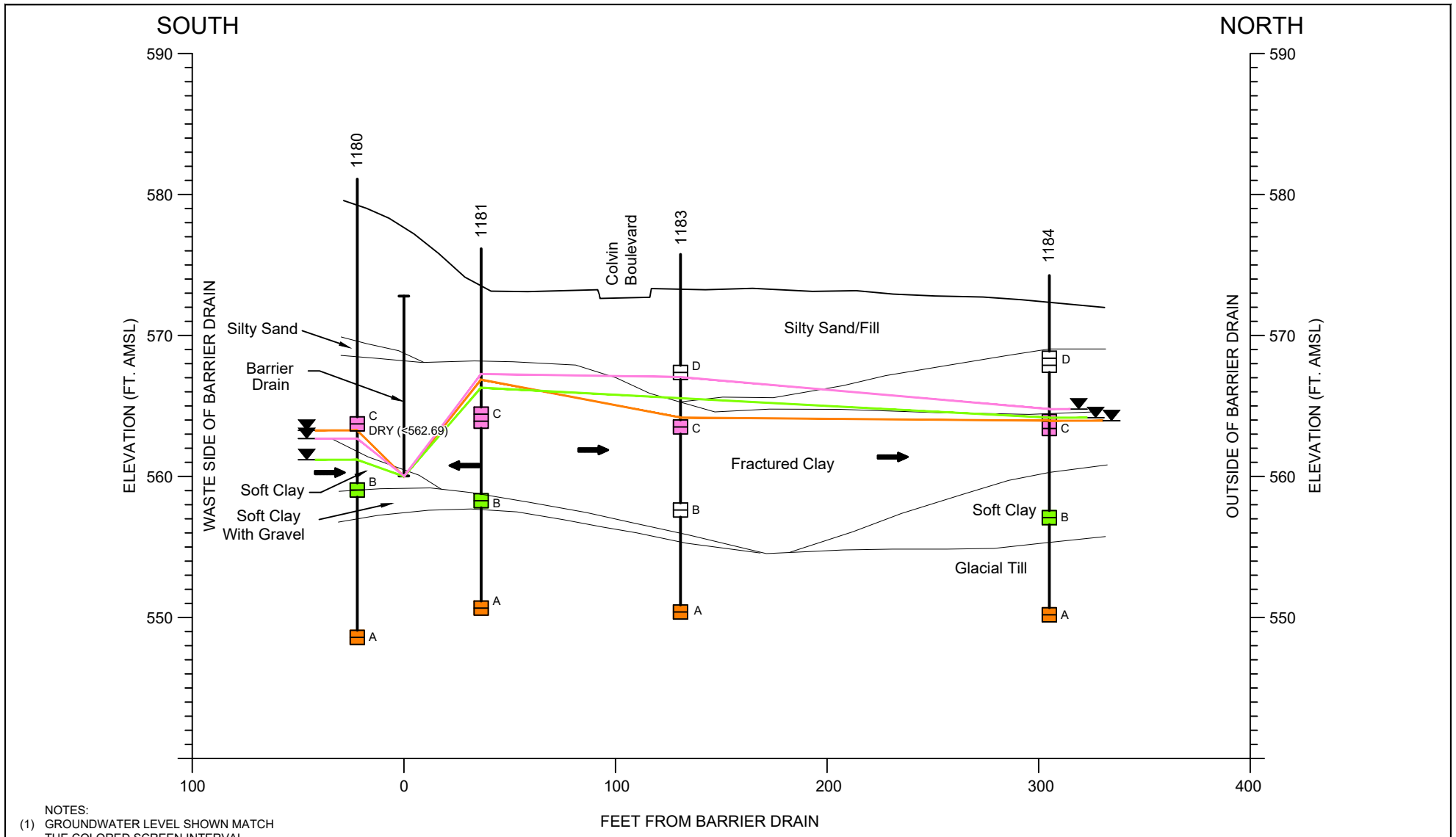

NOTES:
(1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

LEGEND

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

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GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 2021 FLOW DIAGRAM
1180 SERIES PIEZOMETERS

Project No. **11230213**
Date **December 2021**

FIGURE 3.7

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0109_WA-001.DWG
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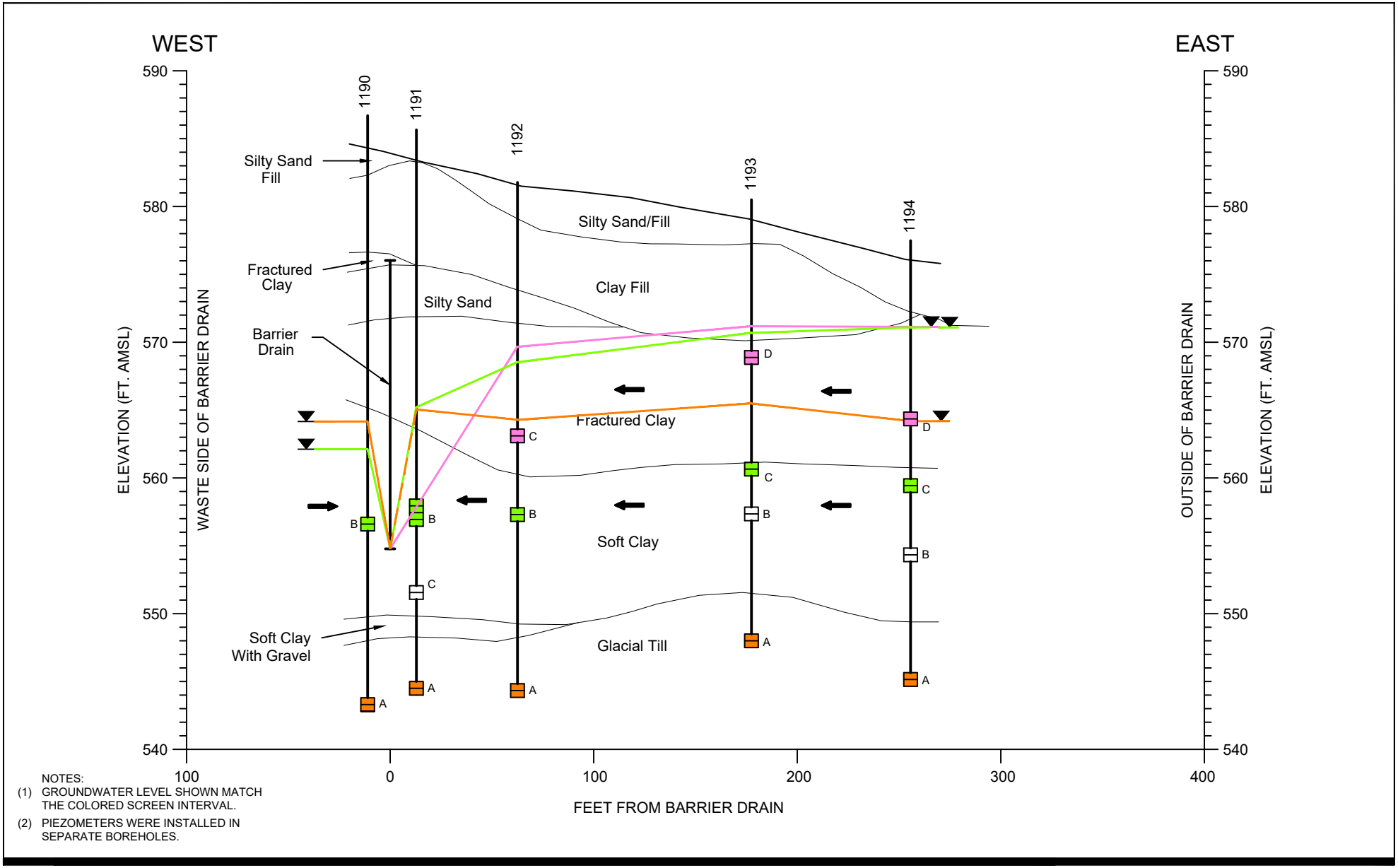

NOTES:
(1) GROUNDWATER LEVEL SHOWN MATCH THE COLORED SCREEN INTERVAL.
(2) PIEZOMETERS WERE INSTALLED IN SEPARATE BOREHOLES.

LEGEND

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

GHD

GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 2021 FLOW DIAGRAM
1190 SERIES PIEZOMETERS

Project No. **11230213**
Date **December 2021**

FIGURE 3.8

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0110_WA-001.DWG
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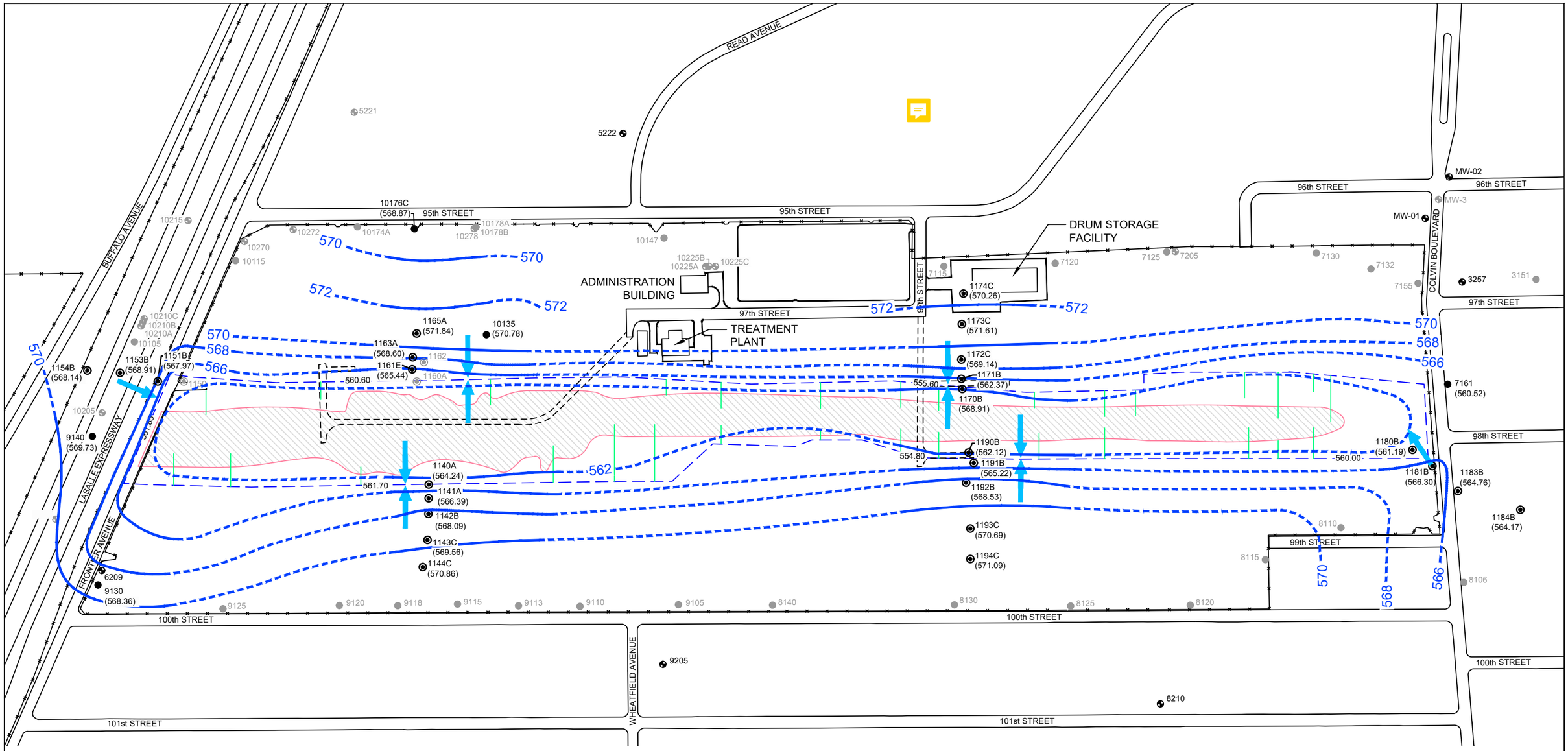

LEGEND

FENCE LINE	BEDROCK OBSERVATION WELL
-554.80- ELEVATION OF THE BOTTOM OF THE BARRIER DRAIN	BEDROCK OBSERVATION WELL (NOT PART OF HYDRAULIC MONITORING PROGRAM)
LATERAL TRENCH	APPROXIMATE LIMITS OF DISPOSED WASTE
7105 PIEZOMETER	(570.86) GROUNDWATER ELEVATION
9120 OVERBURDEN OBSERVATION WELL	570 GROUNDWATER CONTOUR
7105 PIEZOMETER (NOT PART OF HYDRAULIC MONITORING PROGRAM)	INFERRED GROUNDWATER CONTOUR
9120 OVERBURDEN OBSERVATION WELL (NOT PART OF HYDRAULIC MONITORING PROGRAM)	GROUNDWATER FLOW DIRECTION

0 125 250 ft

1" = 250 ft

N

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GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 31, 2021 - OVERBURDEN GROUNDWATER CONTOURS

Project No. **11230213**
Date **January 2022**

FIGURE 3.9

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0111_WA-001.DWG
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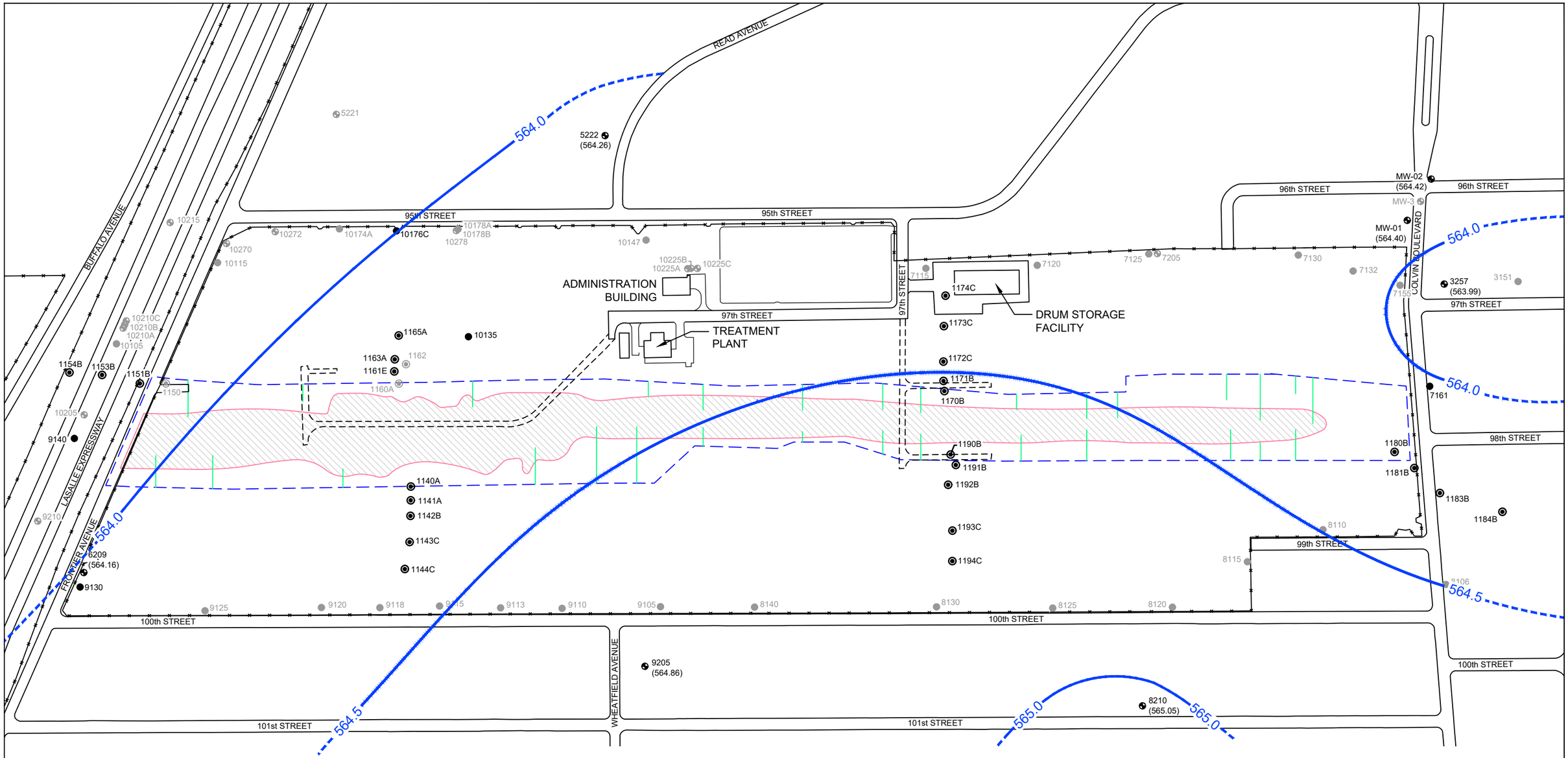

LEGEND

- 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
- (564.86) GROUNDWATER ELEVATION
- 565.5 GROUNDWATER CONTOUR
- INFERRED GROUNDWATER CONTOUR

0 125 250 ft

1" = 250 ft

N

GHD

GLENN SPRINGS HOLDINGS, INC.
LOVE CANAL SITE
NIAGARA FALLS, NEW YORK

AUGUST 31, 2021 - BEDROCK GROUNDWATER CONTOURS

Project No. **11230213**
Date **January 2022**

FIGURE 3.10

Filename: \\ghdnet\ghd\US\Niagara Falls\Projects\564\11230213\Digital_Design\ACAD\Figures\RPT001\11230213-GHD-0000-RPT-EN-0112_WA-001.DWG
Plot Date: 13 January 2022 3:03 PM

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	2021
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**	**436,659**
	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	485,778	558,881	765,891	423,081
	Days [3]	21	20	21	14	10	17	16	20	18	16	17	18	15	18	20	14	18	19	20	26	29	24
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**	**230,037**
	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	683,928	480,242	490,839	221,641
	Days	21	19	20	13	9	11	9	7	16	13	10	19	16	19	15	16	19	13	24	26	28	19
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**	**373,191**
	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	483,834	345,457	534,539	364,331
	Days	23	21	21	17	21	13	13	16	12	18	17	21	16	20	17	20	21	20	24	16	27	24
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**	**219,074**
	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	743,111	621,937	349,735	210,374
	Days	20	20	20	16	17	14	6	14	12	16	15	11	18	22	20	17	19	24	28	25	28	19
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**	**134,023**
	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	160,916	570,737	205,645	125,369
	Days	20	17	20	14	10	5	4	12	11	14	18	17	16	18	21	12	15	25	18	19	23	19
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**	**103,047**
	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	102,480	239,997	138,115	94,665
	Days	20	16	14	13	9	6	5	4	6	7	13	16	12	18	12	19	11	15	10	12	14	11
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**	**594,326**
	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	93,383	125,685	84,682	584,541
	Days	20	16	16	11	7	3	5	6	6	7	4	5	9	19	15	16	12	18	8	10	8	24
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**	**125,988**
	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	81,389	99,061	64,652	115,656
	Days	23	18	17	8	10	5	10	5	6	18	8	13	8	21	9	7	6	17	7	8	8	16
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**	**294,866**
	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	85,785	204,446	89,450	285,463
	Days	20	16	12	7	12	8	7	4	9	7	2	6	17	23	13	12	11	8	8	11	10	18
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**	**440,128**
	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	120,540	319,915	79,713	428,437
	Days	20	18	13	9	4	10	18	8	13	8	5	14	19	20	18	11	11	12	11	19	15	22
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**	**449,377**
	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	626,034	433,375	89,382	439,488
	Days	17	16	14	12	5	14	14	3	14	12	15	12	20	19	12	15	11	22	21	25	18	27
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**	**557,307**
	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	615,325	716,352	343,524	546,562
	Days	17	18	15	14	14	12	12	8	20	17	17	19	14	17	14	13	14	19	28	28	22	28
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**	**3,958,023**
	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**	**4,282,503**	**4,716,085**	**3,236,167**	**3,839,608**
	Days	**242**	**215**	**203**	**148**	**128**	**118**	**119**	**107**	**143**	**153**	**141**	**171**	**180**	**234**	**186**	**172**	**168**	**212**	**207**	**225**	**230**	**251**
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**	**329,835**
	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	356,875	393,007	269,681	319,967
	Days	20	18	17	12	11	10	10	9	12	13	12	14	15	20	16	14	14	18	17	19	19	21
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**	**21.26**

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.

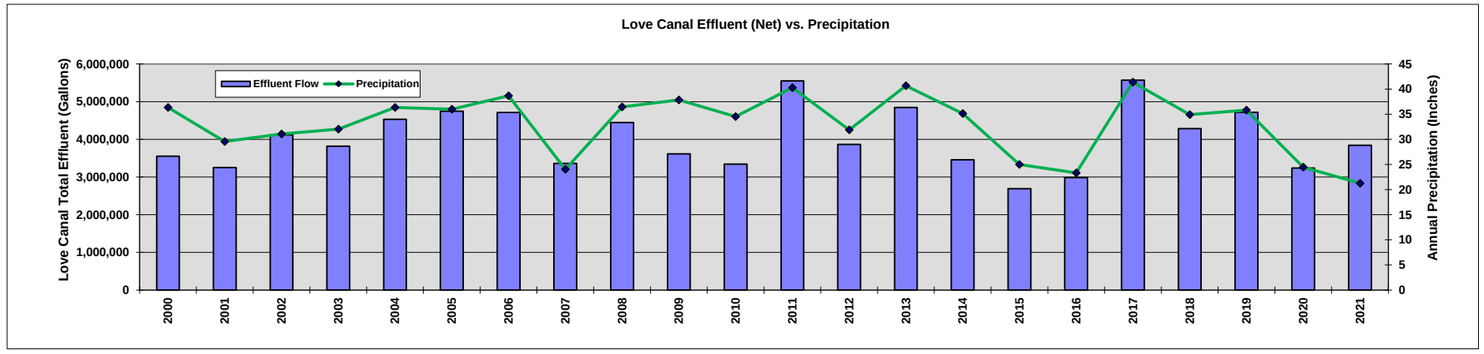

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:			7120	7120	7130	7132	7155	7161	8106	8110	8120	8130	8140	9110
Sample ID:			WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003	WG-9954-061421-SG-026	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-060921-SG-009
Sample Date:			6/17/2021	6/17/2021 (Duplicate)	6/8/2021	6/8/2021	6/8/2021	6/14/2021	6/11/2021	6/8/2021	6/8/2021	6/8/2021	6/9/2021	6/9/2021
Parameters	**Units**	**Class GA Standard**												
Volatile Organic Compounds														
1,1,1-Trichloroethane	ug/L	5	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	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	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	5.0 U
1,1,2-Trichloroethane	ug/L	1	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	5.0 U
1,1-Dichloroethane	ug/L	5	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	5.0 U
1,1-Dichloroethene	ug/L	5	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	5.0 U
1,2-Dichloroethane	ug/L	0.6	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	5.0 U
1,2-Dichloropropane	ug/L	1	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	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	0.96 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1	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	5.0 U
Bromodichloromethane	ug/L	NA	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	5.0 U
Bromoform	ug/L	NA	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	5.0 U
Bromomethane (Methyl bromide)	ug/L	5	5.0 U	0.88 J	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
Carbon disulfide	ug/L	60	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	ug/L	5	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	5.0 U
Chlorobenzene	ug/L	5	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	5.0 U
Chloroethane	ug/L	5	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	5.0 U
Chloroform (Trichloromethane)	ug/L	7	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	5.0 U
Chloromethane (Methyl chloride)	ug/L	5	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	5.0 U
cis-1,2-Dichloroethene	ug/L	5	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	5.0 U
cis-1,3-Dichloropropene	ug/L	0.4	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	5.0 U
Dibromochloromethane	ug/L	NA	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	5.0 U
Ethylbenzene	ug/L	5	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	5.0 U
Methylene chloride	ug/L	5	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	5.0 U
Styrene	ug/L	5	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	5.0 U
Tetrachloroethene	ug/L	5	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	5.0 U
Toluene	ug/L	5	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	5.0 U
trans-1,2-Dichloroethene	ug/L	5	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	5.0 U
trans-1,3-Dichloropropene	ug/L	0.4	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	5.0 U
Trichloroethene	ug/L	5	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	5.0 U
Vinyl acetate	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	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	5.0 U
Xylenes (total)	ug/L	5	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	5.0 U
Discrete Compounds Detected:			1	1	0	0	0	0	0	0	0	0	0	0
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 UJ	9.1 UJ
2,4-Dichlorophenol	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 UJ	45 U	45 U	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	ND	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	NA	9.1 U	9.1 U	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	5	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:			7120	7120	7130	7132	7155	7161	8106	8110	8120	8130	8140	9110
Sample ID:			WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003	WG-9954-061421-SG-026	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-060921-SG-009
Sample Date:			6/17/2021	6/17/2021 (Duplicate)	6/8/2021	6/8/2021	6/8/2021	6/14/2021	6/11/2021	6/8/2021	6/8/2021	6/8/2021	6/9/2021	6/9/2021
Parameters	**Units**	**Class GA Standard**												
Chrysene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	50	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	0.04	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	0.5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	NA	9.1 U	9.1 U	9.1 UJ	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	0.4	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated Biphenyls														
Aroclor-1016 (PCB-1016)	ug/L	0.09	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-1221 (PCB-1221)	ug/L	0.09	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	1.8 U
Aroclor-1232 (PCB-1232)	ug/L	0.09	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-1242 (PCB-1242)	ug/L	0.09	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-1248 (PCB-1248)	ug/L	0.09	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-1254 (PCB-1254)	ug/L	0.09	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-1260 (PCB-1260)	ug/L	0.09	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
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Pesticides														
4,4'-DDD	ug/L	0.3	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	ug/L	0.01	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
alpha-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Dieldrin	ug/L	0.004	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	5	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.03	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	35	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.06	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
ND - Not detected
NA - Not available
4.0 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Sample Location:		9115	9115	9120	9125	9130	9140	9140	10105	10135	10147	10174A	10178A
Sample ID:		WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007
Sample Date:		6/9/2021	6/9/2021 (Duplicate)	6/9/2021	6/9/2021	6/9/2021	6/11/2021	6/11/2021 (Duplicate)	6/11/2021	6/9/2021	6/17/2021	6/17/2021	6/9/2021
Parameters	**Units**												
Volatile Organic Compounds													
1,1,1-Trichloroethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
Benzene	ug/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	**6800**	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/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	75 J	5.0 U	5.0 U	5.0 U
Bromoform	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	10 U	10 U	10 U	10 U	10 U	1.0 J	10 U	10 U	2000 U	1.6 J	0.63 J	10 U
Carbon tetrachloride	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/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	**2500**	5.0 U	5.0 U	5.0 U
Chloroethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/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	**420 J**	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/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	1000 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Styrene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Toluene	ug/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	**25000**	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/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	**120 J**	5.0 U	5.0 U	5.0 U
Vinyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2000 U	10 U	10 U	10 U
Vinyl chloride	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	ug/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	1000 U	5.0 U	5.0 U	5.0 U
Discrete Compounds Detected:		0	0	0	0	0	1	0	0	6	1	1	0
Semi-volatile Organic Compounds													
1,2,4-Trichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**51 J**	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**29 J**	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**82 J**	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**23 J**	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 UJ
2,4-Dichlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**140**	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
2,4-Dinitrotoluene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**18 J**	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**28 J**	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	74 J	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**20 J**	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
Acenaphthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	**3600**	45 U	45 U	45 U
Benzyl alcohol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	260	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**18 J**	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U

Table 3.2

2021 Analytical Results Summary - Overburden
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Sample Location:	9115	9115	9120	9125	9130	9140	9140	10105	10135	10147	10174A	10178A
	Sample ID:	WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007
	Sample Date:	6/9/2021	6/9/2021 (Duplicate)	6/9/2021	6/9/2021	6/9/2021	6/11/2021	6/11/2021 (Duplicate)	6/11/2021	6/9/2021	6/17/2021	6/17/2021	6/9/2021
Parameters	**Units**												
Chrysene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	450 U	45 U	45 U	45 U
Phenanthrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	**40 J**	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	13	0	0	0
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	ug/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-1221 (PCB-1221)	ug/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	1.8 U
Aroclor-1232 (PCB-1232)	ug/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-1242 (PCB-1242)	ug/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-1248 (PCB-1248)	ug/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-1254 (PCB-1254)	ug/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-1260 (PCB-1260)	ug/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
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0	0	0	0
Pesticides													
4,4'-DDD	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**0.80**	0.045 U	0.045 U	0.045 U
alpha-BHC	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**21**	0.045 U	0.045 U	0.045 U
alpha-Chlordane	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**6.6**	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**8.8**	0.045 U	0.045 U	0.045 U
Dieldrin	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	**4.0**	0.045 U	0.045 U	0.045 U
gamma-Chlordane	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	5	0	0	0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
ND - Not detected
NA - Not available
4.0 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.3

2021 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-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061021-SG-016	WG-9954-061621-SG-033	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061421-SG-025	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029
Sample Date:			6/11/2021	6/17/2021	6/16/2021	6/10/2021	6/16/2021	6/16/2021	6/15/2021	6/14/2021	6/17/2021	6/14/2021	6/15/2021	6/15/2021 (Duplicate)
Parameters	**Units**	**Class GA Standard**												
Volatile Organic Compounds														
1,1,1-Trichloroethane	ug/L	5	5.0 U	5.0 U	25 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
1,1,2,2-Tetrachloroethane	ug/L	5	5.0 U	5.0 U	25 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
1,1,2-Trichloroethane	ug/L	1	5.0 U	5.0 U	25 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
1,1-Dichloroethane	ug/L	5	5.0 U	5.0 U	25 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
1,1-Dichloroethene	ug/L	5	5.0 U	5.0 U	25 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
1,2-Dichloroethane	ug/L	0.6	5.0 U	5.0 U	25 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
1,2-Dichloropropane	ug/L	1	5.0 U	5.0 U	25 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
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	NA	10 U	1.0 J	50 U	10 U	10 U	10 U	10 U	10 U	4.0 J	10 U	10 U	10 U
2-Hexanone	ug/L	NA	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	NA	10 U	10 U	50 U	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	NA	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	19	10 U	10 U	10 U
Benzene	ug/L	1	5.0 U	5.0 U	25 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
Bromodichloromethane	ug/L	NA	5.0 U	5.0 U	25 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
Bromoform	ug/L	NA	5.0 U	5.0 U	25 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
Bromomethane (Methyl bromide)	ug/L	5	5.0 U	5.0 U	25 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
Carbon disulfide	ug/L	60	0.51 J	3.2 J	31 J	3.5 J	8.1 J	12	10 U	2.6 J	4.5 J	3.5 J	0.48 J	10 U
Carbon tetrachloride	ug/L	5	5.0 U	5.0 U	25 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
Chlorobenzene	ug/L	5	5.0 U	5.0 U	25 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
Chloroethane	ug/L	5	5.0 U	5.0 U	25 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
Chloroform (Trichloromethane)	ug/L	7	5.0 U	5.0 U	25 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
Chloromethane (Methyl chloride)	ug/L	5	5.0 U	5.0 U	25 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
cis-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	25 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
cis-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	25 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
Dibromochloromethane	ug/L	NA	5.0 U	5.0 U	25 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
Ethylbenzene	ug/L	5	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.26 J	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	5.0 U	5.0 U	25 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
Styrene	ug/L	5	5.0 U	5.0 U	25 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
Tetrachloroethene	ug/L	5	5.0 U	5.0 U	25 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
Toluene	ug/L	5	5.0 U	5.0 U	25 U	0.42 J	5.0 U	5.0 U	5.0 U	5.0 U	0.24 J	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	5.0 U	5.0 U	25 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
trans-1,3-Dichloropropene	ug/L	0.4	5.0 U	5.0 U	25 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
Trichloroethene	ug/L	5	5.0 U	5.0 U	25 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
Vinyl acetate	ug/L	NA	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	5.0 U	5.0 U	25 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
Xylenes (total)	ug/L	5	5.0 U	5.0 U	25 U	0.49 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds Detected:			1	2	1	4	1	1	0	1	5	1	1	0
Semi-volatile Organic Compounds														
1,2,4-Trichlorobenzene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	3	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 UJ	45 UJ	45 U	45 UJ	45 UJ	45 UJ
2,4-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	NA	3.1 J	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	ND	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	5	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 3.3

2021 Analytical Results Summary - Bedrock
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Parameters	Units	Class GA Standard	Sample Location: 3257 Sample ID: WG-9954-061121-SG-024 Sample Date: 6/11/2021	Sample Location: 5221 Sample ID: WG-9954-061721-SG-038 Sample Date: 6/17/2021	Sample Location: 6209 Sample ID: WG-9954-061621-SG-035 Sample Date: 6/16/2021	Sample Location: 7205 Sample ID: WG-9954-061021-SG-016 Sample Date: 6/10/2021	Sample Location: 8210 Sample ID: WG-9954-061621-SG-033 Sample Date: 6/16/2021	Sample Location: 9205 Sample ID: WG-9954-061621-SG-032 Sample Date: 6/16/2021	Sample Location: 9210 Sample ID: WG-9954-061521-SG-031 Sample Date: 6/15/2021	Sample Location: 10205 Sample ID: WG-9954-061421-SG-025 Sample Date: 6/14/2021	Sample Location: 10210A Sample ID: WG-9954-061721-SG-037 Sample Date: 6/17/2021	Sample Location: 10210B Sample ID: WG-9954-061421-SG-027 Sample Date: 6/14/2021	Sample Location: 10210C Sample ID: WG-9954-061521-SG-028 Sample Date: 6/15/2021	Sample Location: 10210C Sample ID: WG-9954-061521-SG-029 Sample Date: 6/15/2021 (Duplicate)
Chrysene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	50	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	0.04	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	0.5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	5	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	0.4	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	1	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	1	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	NA	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:			1	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated Biphenyls														
Aroclor-1016 (PCB-1016)	ug/L	0.09	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-1221 (PCB-1221)	ug/L	0.09	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	1.8 U
Aroclor-1232 (PCB-1232)	ug/L	0.09	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-1242 (PCB-1242)	ug/L	0.09	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-1248 (PCB-1248)	ug/L	0.09	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-1254 (PCB-1254)	ug/L	0.09	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-1260 (PCB-1260)	ug/L	0.09	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
Discrete Compounds Detected:			0	0	0	0	0	0	0	0	0	0	0	0
Pesticides														
4,4'-DDD	ug/L	0.3	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.2	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	ug/L	0.01	0.045 U	**0.078**	**0.18**	**0.042 J**	**0.025 J**	0.045 U	0.045 U	0.045 U	**0.082**	0.051 U	0.050 U	**0.13**
alpha-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	0.04	0.045 U	**0.28**	**0.66**	**0.28**	**0.051**	0.045 U	0.045 U	0.045 U	**0.065**	**0.082**	**0.12 J**	**0.29 J**
Dieldrin	ug/L	0.004	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	NA	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	ND	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	5	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	0.05	0.045 U	0.045 U	**0.22**	**0.090**	0.033 J	0.045 U	0.045 U	0.045 U	**0.078**	**0.076**	**0.075 J**	**0.23 J**
gamma-Chlordane	ug/L	0.05	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	0.04	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.03	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	35	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.06	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:			0	2	3	3	3	0	0	0	3	2	2	3

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ND - Not detected
NA - Not available
0.18 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.3

2021 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-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034	WG-9954-061021-SG-019	WG-9954-061021-SG-018	WG-9954-061021-SG-017	WG-9954-061721-SG-043	WG-9954-061721-SG-042
Sample Date:		6/15/2021	6/17/2021	6/17/2021	6/16/2021	6/10/2021	6/10/2021	6/10/2021	6/17/2021	6/17/2021
Parameters	**Units**									
Volatile Organic Compounds										
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	2.3 J	1.6 J	50 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	3.6 J	**150**	11	24 J	3.5 J	3.4 J	4.0 J	2.1 J	2.0 J
Carbon tetrachloride	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	0.32 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5.0 U	0.49 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5.0 U	0.33 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.0 U	5.0 U	5.0 U	4.9 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	ug/L	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	ug/L	5.0 U	0.48 J	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Discrete Compounds Detected:		1	6	2	2	1	1	1	1	1
Semi-volatile Organic Compounds										
1,2,4-Trichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	**6.3 J**	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,2-Dichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,3-Dichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
1,4-Dichlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,5-Trichlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dichlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dimethylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	ug/L	45 UJ	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
2,4-Dinitrotoluene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2,6-Dinitrotoluene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chloronaphthalene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Chlorophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylnaphthalene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Methylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitrophenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3,3'-Dichlorobenzidine	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
3-Nitroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4,6-Dinitro-2-methylphenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloro-3-methylphenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chloroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Chlorophenyl phenyl ether	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitroaniline	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Acenaphthylene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)anthracene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(a)pyrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(b)fluoranthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(g,h,i)perylene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzo(k)fluoranthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethoxy)methane	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Chloroethyl)ether	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Butyl benzylphthalate (BBP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 3.3

2021 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-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034	WG-9954-061021-SG-019	WG-9954-061021-SG-018	WG-9954-061021-SG-017	WG-9954-061721-SG-043	WG-9954-061721-SG-042
Sample Date:		6/15/2021	6/17/2021	6/17/2021	6/16/2021	6/10/2021	6/10/2021	6/10/2021	6/17/2021	6/17/2021
Parameters	**Units**									
Chrysene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenz(a,h)anthracene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Diethyl phthalate	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Dimethyl phthalate	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-butylphthalate (DBP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Di-n-octyl phthalate (DnOP)	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Indeno(1,2,3-cd)pyrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodi-n-propylamine	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
N-Nitrosodiphenylamine	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	ug/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	ug/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Discrete Compounds Detected:		0	0	0	1	0	0	0	0	0
Polychlorinated Biphenyls										
Aroclor-1016 (PCB-1016)	ug/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-1221 (PCB-1221)	ug/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
Aroclor-1232 (PCB-1232)	ug/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-1242 (PCB-1242)	ug/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-1248 (PCB-1248)	ug/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-1254 (PCB-1254)	ug/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-1260 (PCB-1260)	ug/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
Discrete Compounds Detected:		0	0	0	0	0	0	0	0	0
Pesticides										
4,4'-DDD	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDE	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
4,4'-DDT	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.038 J	0.045 U	0.045 U
alpha-BHC	ug/L	**0.065**	**0.43**	**0.17**	**0.13**	**0.026 J**	**0.10 J**	**0.12**	0.045 U	0.045 U
alpha-Chlordane	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.037 J	0.045 U	0.045 U	0.045 U
delta-BHC	ug/L	**0.20 J**	0.045 U	**0.14**	0.045 U	**0.17**	**0.16 J**	**0.18**	0.045 U	0.045 U
Dieldrin	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan I	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan II	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endosulfan sulfate	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin ketone	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	ug/L	**0.11**	0.045 U	**0.17**	**0.093**	**0.073**	**0.12**	**0.26 J**	0.045 U	0.045 U
gamma-Chlordane	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	ug/L	R	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor epoxide	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	ug/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Discrete Compounds Detected:		3	1	3	2	3	4	4	0	0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ND - Not detected
NA - Not available
0.18 -Exceeds New York State Ambient Water Quality Standard (Class GA Standard)

Table 3.4

2021 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**
7120	B	1 (1)	0 (0)	0 (0)	0 (0)
7130	A	0	0	0	0
7132	A	0	0	0	0
7155	B	0	0	0	0
7161	B	0	0	0	0
8106	A	0	0	0	0
8110	B	0	0	0	0
8120	B	0	0	0	0
8130	B	0	0	0	0
8140	B	0	0	0	0
9110	B	0	0	0	0
9115	B	0 (0)	0 (0)	0 (0)	0 (0)
9120	B	0	0	0	0
9125	B	0	0	0	0
9130	B	0	0	0	0
9140	B	1 (0)	0 (0)	0 (0)	0 (0)
10105	B	0	0	0	0
10147	B	1	0	0	0
10174A	B	1	0	0	0
10178A	B	0	0	0	0
Total Overburden Well Detections		**4 (3)**	**0**	**0**	**0**
Number of Discrete Compounds Detected		**3**	**0**	**0**	**0**

Well 10135	**Well Group**	**VOCs**	**SVOCs**	**PCBs**	**Pesticides**
10135	A	6	13	0	5
Total Well 10135 Well Detections		**6**	**13**	**0**	**5**
Number of Discrete Compounds Detected		**6**	**13**	**0**	**5**

Bedrock Wells	**Well Group**	**VOCs**	**SVOCs**	**PCBs**	**Pesticides**
3257	A	1	1	0	0
5221	A	2	0	0	2
6209	A	1	0	0	3
7205	A	4	0	0	3
8210	A	1	0	0	3
9205	A	1	0	0	0
9210	A	0	0	0	0
10205	A	1	0	0	0
10210A	A	5	0	0	3
10210B	A	1	0	0	2
10210C	A	1 (0)	0	0	2 (3)
10215	A	1	0	0	3*
10225A	A	6	0	0	1
10225B	A	2	0	0	3
10225C	A	2	1	0	2
10270	A	1	0	0	3
10272	A	1	0	0	4
10278	A	1	0	0	4
MW-01	X	1	0	0	0
MW-02	X	1	0	0	0
Total Bedrock Well Detections		**34 (33)**	**2**	**0**	**38 (39)**
Number of Discrete Compounds Detected		**9**	**2**	**0**	**5**

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
( ) - Results for duplicate sample
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-Volatile Organic Compounds
VOCs - Volatile Organic Compounds

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	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**	**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**
Parameters																										
Volatile Organic Compounds (µg/L)																										
1,1,1-Trichloroethane																										
1,1,2,2-Tetrachloroethane				0.2																						
1,1,2-Trichloroethane																										
1,1-Dichloroethane																										
1,1-Dichloroethene																										
1,2-Dichloroethane																										
1,2-Dichloroethene (total)																										
1,2-Dichloropropane				0.04																						
2-Butanone (Methyl Ethyl Ketone)									2 J			3 J		4 J												
2-Hexanone				0.4					3 J																	
Acetone	14C			13B				120 J			10 J									5.2 J						3.5 J
Benzene				0.1																						
Bromodichloromethane																										
Bromoform				0.03																						
Bromomethane (Methyl bromide)																										6.1
Carbon Disulfide				2	20	310					6 J			6 J	1.6 J	1 J	8 J	24			2.7 J				2.9 J	
Chlorobenzene																										
Chloroform																										
Chlorotoluenes																										
cis-1,2-Dichloroethene																										
Dibromochloromethane				0.08																						
Dichlorotoluene, total																										
Ethylbenzene				0.6																						0.28 J
m&p-Xylenes																										
Methylene Chloride				0.3																						
o-Xylene																										
Styrene				0.1																						
Tetrachloroethene				0.07																						
Toluene				0.4					2 J						2.3 J											
trans-1,2-Dichloroethene																										
Trichloroethene				0.1																6.3						
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																										
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				5.8 J							
Benzyl Alcohol																										
Bis(2-Chloroethyl)Ether																										
bis(2-Ethylhexyl)Phthalate		12	21	31	51									1 J	1.7 J	8 J			2.5 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																									0.41 J	
N-Nitrosodiphenylamine																										
Pentachlorophenol																										
Phenanthrene																										

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	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**	**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**
Parameters																										
Phenol									1 J				5 J	1 J	1.7 J											
Pyrene																										
Pesticides/PCBs (µg/L)																										
4,4'-DDD													0.013 J													
4,4'-DDE																										
Aldrin																										
Alpha-BHC									0.28											0.14 J						0.086
Alpha-Chlordane																									0.030	
Aroclor-1260 (PCB-1260)																										
beta&gamma-BHC (sum of isomers)																										
Beta-BHC									0.035 J				0.020 J	0.011 J				0.015 J		0.12 J						
Delta-BHC				0.0061									0.062 J	0.043 J						0.12 J			0.067 J			0.067 J
Dieldrin																										
Endosulfan I									0.046 J																	
Endosulfan II																										
Endosulfan Sulfate																										
Endrin																										
Endrin ketone																										
Gamma-BHC (Lindane)									0.10 J				0.039 J							0.12 J						0.083
Gamma-Chlordane																										
Heptachlor																										
Heptachlor epoxide																										
Methoxychlor																										

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

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	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B
SampleDate:	**7/10/2017**	**7/23/2018**	**6/14/2019**	**7/9/2020**	**6/17/2021**	**7/24/1990**	**8/22/1991**	**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**	**7/17/2008**	**7/15/2009**	**7/15/2009**
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)					4.0 J					4									23							
2-Hexanone																										
Acetone	8.4 J		5.8 J		19			31	6	12 B	23						12 J									
Benzene									0.3	0.3																
Bromodichloromethane																										
Bromoform																										
Bromomethane (Methyl bromide)									0.2																	
Carbon Disulfide	2.0 J	340	51	9.2 J	4.5 J				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	0.35 J	0.22 J			0.26 J				0.2	0.08																
m&p-Xylenes																										
Methylene Chloride									0.4	0.2																
o-Xylene																										
Styrene																										
Tetrachloroethene									0.06											9 J						
Toluene					0.24 J	1.8				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)	0.27 J	0.29 J							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																										
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			3.9 J			7 B	13		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)			2.3 J			1	1			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						1				0.3																
Phenanthrene										0.07																

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	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B	10210B
SampleDate:	**7/10/2017**	**7/23/2018**	**6/14/2019**	**7/9/2020**	**6/17/2021**	**7/24/1990**	**8/22/1991**	**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**	**7/17/2008**	**7/15/2009**	**7/15/2009**
Parameters																										
Phenol						3	3			2																
Pyrene										0.04																
Pesticides/PCBs (µg/L)																										
4,4'-DDD																										
4,4'-DDE																				0.011 J						
Aldrin																						.0089 J				
Alpha-BHC			0.10	0.12	0.082														19	2.4	0.37	.58	0.016 J		0.064	0.050
Alpha-Chlordane																										
Aroclor-1260 (PCB-1260)																										
beta&gamma-BHC (sum of isomers)																										
Beta-BHC																			1.9	0.53	0.082 P	.082				
Delta-BHC		0.032 J	0.045 J	0.088	0.065														0.56 J	0.15		.047 J			0.032 J	0.028 J
Dieldrin																			0.13 J							
Endosulfan I																			0.11 J							
Endosulfan II																										
Endosulfan Sulfate																										
Endrin																										
Endrin ketone																										
Gamma-BHC (Lindane)		0.021 J	0.080	0.150	0.078														2.1	0.39	0.046 J	.099			0.038 J	0.033 J
Gamma-Chlordane																			0.15 J							
Heptachlor																										
Heptachlor epoxide																			0.35 J							
Methoxychlor																										

Notes:

D - Sample result is from a dilution
C - Sample result was confirmed
E - Sample result was greater than the highest calibration le
N - Validator qualifier-presumptive certainty, usually used w
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

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	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C
SampleDate:	**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**	**6/14/2021**	**7/25/1990**	**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**
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									2.6 J							10 B		19 B					2100	8 J	9 J	
Benzene																										
Bromodichloromethane																										
Bromoform																										
Bromomethane (Methyl bromide)																										
Carbon Disulfide		4.0 J	4.6 J	6.1 J		2.9 J	7.9		3.4 J	20	4.2 J	4.3 J	3.5 J					0.6						3 J		
Chlorobenzene																										
Chloroform																										
Chlorotoluenes																										
cis-1,2-Dichloroethene																										
Dibromochloromethane																										
Dichlorotoluene, total																										
Ethylbenzene																										
m&p-Xylenes																										
Methylene Chloride					1.2 J													0.2								
o-Xylene																										
Styrene																										
Tetrachloroethene																										
Toluene														3												
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																										
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														7 B	13			8								
Butyl benzylphthalate (BBP)														1				0.4								
Camphor																										
Carbazole																										
Chlorobenzoic acid																										
Chrysene																										
Dibenz(a,h)anthracene																										
Diethyl phthalate	1.8 J													1				0.2								
Dimethyl Phthalate																										
Dimethyl tetrasulfide																										
Di-n-butyl phthalate (DBP)														2	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								

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	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C	10210C
SampleDate:	**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**	**6/14/2021**	**7/25/1990**	**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**
Parameters																									
Phenol														2	6				22		22					
Pyrene																									
Pesticides/PCBs (µg/L)																									
4,4'-DDD																									
4,4'-DDE																									
Aldrin																									
Alpha-BHC	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	0.028 J / 0.032 J	0.050 J	0.042 J					0.17 J				0.076	0.082												
Dieldrin																									
Endosulfan I																									
Endosulfan II																									
Endosulfan Sulfate																									
Endrin																									
Endrin ketone																									
Gamma-BHC (Lindane)	0.038 J / 0.033 J		0.061 J					0.084			0.055	0.10	0.076												
Gamma-Chlordane																									
Heptachlor			0.053 J																						
Heptachlor epoxide																									
Methoxychlor																									

Notes:

D - Sample result is from a dilution
C - Sample result was confirmed
E - Sample result was greater than the highest calibration le
N - Validator qualifier-presumptive certainty, usually used w
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

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	10210C	10210C	10135	10135	10135	10135	10135	10135	10135
SampleDate:	**5/23/2003**	**6/7/2004**	**6/23/2005**	**6/28/2006**	**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**	**6/15/2021**	**9/13/1990**	**8/29/1991**	**8/26/1992**	**8/19/1993**	**6/22/1994**	**6/1/1995**	**6/27/1996**
Parameters																									
Volatile Organic Compounds (µg/L)																									
1,1,1-Trichloroethane																							8	14		
1,1,2,2-Tetrachloroethane																							12	51		26
1,1,2-Trichloroethane																										14
1,1-Dichloroethane																										
1,1-Dichloroethene																				6			15	3		
1,2-Dichloroethane																										
1,2-Dichloroethene (total)																						700	840	650	670 JD	560
1,2-Dichloropropane																										
2-Butanone (Methyl Ethyl Ketone)																							36			
2-Hexanone																										
Acetone			1.9 J												4.3 J					50			270	100 B	100 J	60
Benzene																				6200	6700		5200	6000 E	4900 D	4800
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	0.48 J / ND							
Chlorobenzene				2 J																2380	2400	2600	1700 E	2900 E	2000 D	1500
Chloroform																							100	120	86 J	110
Chlorotoluenes																				16600	16000					
cis-1,2-Dichloroethene																										
Dibromochloromethane																										
Dichlorotoluene, total																				14000	140					
Ethylbenzene																				12	10		13	12		
m&p-Xylenes																										
Methylene Chloride																				5			41	8		11
o-Xylene																										
Styrene																							4			
Tetrachloroethene				6 J																50			8	32		
Toluene		29 / 23																		22800	26000	2700	17000	21500	18000 D	14000
trans-1,2-Dichloroethene																				20						
Trichloroethene																				260	450		24	140	18 J	36
Trichlorotoluene, total																				40						
Vinyl Acetate																						6800				
Vinyl Chloride																								61	44 J	50
Xylenes (total)																				50	30		47	10 B	37 J	28
Semi-volatile Organic Compounds (µg/L)																										
1,2,4-Trichlorobenzene				6 J																80	290		74	87 B		
1,2-Dichlorobenzene																				50	16		35	34		
1,3-Dichlorobenzene																								4		
1,4-Dichlorobenzene																				120	47	110	94	91		
2,4,5-Trichlorophenol																				860	130		70	59		
Semi-volatile Organic Compounds (µg/L) (Continued)																										
2,4,6-Trichlorophenol																					120			8		
2,4-Dichlorophenol																				830		1200B	420	610	150	
2,4-Dimethylphenol																								9		
2-Chloronaphthalene																									150	
2-Chlorophenol																								20		
2-Methylnaphthalene																										
2-Methylphenol																							51	46		
3&4-Methylphenol																										
2-Nitrophenol																										
3,5-Dichlorotoluene																							350			
4-Chloro-3-methylphenol																					13			31		
4-Chlorophenyl phenyl ether																								2		
4-Methylphenol																					10		60	64		
Acetic acid																										
Anthracene																								1		
Benzo(a)pyrene																										
Benzo(b)fluoranthene																										
Benzo(g,h,i)perylene																										
Benzo(k)fluoranthene																										
Benzoic Acid																				140000	580				6400 D	4000
Benzyl Alcohol																				4200	1100				380	
Bis(2-Chloroethyl)Ether																							23			
bis(2-Ethylhexyl)Phthalate		29 / 5 J		5 J																			50	2		
Butyl benzylphthalate (BBP)																										
Camphor																							130			
Carbazole																										
Chlorobenzoic acid																				4000						
Chrysene																								0.2		
Dibenz(a,h)anthracene																										
Diethyl phthalate							4.4 J																	1		
Dimethyl Phthalate							0.87 J																			
Dimethyl tetrasulfide																										
Di-n-butyl phthalate (DBP)																										
Di-n-octyl phthalate (DnOP)																										
Fluoranthene																								0.2		
Hexachlorobenzene																										
Hexachloroethane																										
Indeno(1,2,3-cd)pyrene																										
Naphthalene																										
N-Nitrosodiphenylamine																										
Pentachlorophenol																							52	4		
Phenanthrene																										

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	10210C	10210C	10135	10135	10135	10135	10135	10135	10135
SampleDate:	**5/23/2003**	**6/7/2004**	**6/23/2005**	**6/28/2006**	**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**	**6/15/2021**	**9/13/1990**	**8/29/1991**	**8/26/1992**	**8/19/1993**	**6/22/1994**	**6/1/1995**	**6/27/1996**
Parameters																									
Phenol																	1.7 J				10		98	91	140	
Pyrene																									
Pesticides/PCBs (µg/L)																									
4,4'-DDD																									
4,4'-DDE																								0.071	
Aldrin				0.061 J																		0.53	0.24 P		
Alpha-BHC			0.083	0.45 J										0.062			0.021 J	0.081	ND / 0.13			84	42 C	24 CEP	28 D	29
Alpha-Chlordane																									
Aroclor-1260 (PCB-1260)																									
beta&gamma-BHC (sum of isomers)																							19.5	20.4	
Beta-BHC				0.048 J																					10 D	11
Delta-BHC		0.019 J / 0.017 J		0.052 J			0.048 J							0.14 J			0.028 J	0.068 J	0.12 J / 0.29 J			15	9.8	7.5 CE	4.7	5.2
Dieldrin																									
Endosulfan I																									
Endosulfan II																									
Endosulfan Sulfate																							0.43 P		
Endrin				0.14 J									0.13											0.15 P	
Endrin ketone																									
Gamma-BHC (Lindane)				0.11 J										0.13			0.026 J	0.089	0.075 J / 0.23 J			33				2.4 J
Gamma-Chlordane				0.018 J																					
Heptachlor																									
Heptachlor epoxide																									
Methoxychlor																									

Notes:

D - Sample result is from a dilution
C - Sample result was confirmed
E - Sample result was greater than the highest calibration le
N - Validator qualifier-presumptive certainty, usually used w
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

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	10135	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	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	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	6/9/2021
Parameters																										
Volatile Organic Compounds (µg/L)																										
1,1,1-Trichloroethane																										
1,1,2,2-Tetrachloroethane		94 J	29 / 32	27 J / 26 J	120 J / 100 J	56	38					16 J		25 / 24								3.4 J		1.8 J / 1.8 J	6.1 / 7.9	
1,1,2-Trichloroethane		29 J	15 / 12	16 J / 14 J	29 J / 34 J	27						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			4 J / 3 J	4 J / 4 J	4 J / 4 J	4 J	3 J					2 J													0.63 J / 0.78 J	
1,2-Dichloroethane																										
1,2-Dichloroethene (total)						600 J / 560	490 J																			
1,2-Dichloropropane																										
2-Butanone (Methyl Ethyl Ketone)				10 J	11 J / 12 J									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		110 J		28 J / 46 J		72	74				200 J	53 J		42 / 37	39							45		50 / 35	79 / 71	
Benzene	5000 / 5600	5300 J	5700 / 5600	6900 J / 6400 D	8500 J / 7600	5900 / 6400	5500		5400	5700	6800	7100	5300	7500 / 7600	3400	2200	5900	2500	6100	6200	7100	6300	6200	4900 / 5700	6500 / 6300	6800
Bromodichloromethane																							38 J			75 J
Bromoform																										
Bromomethane (Methyl bromide)																										
Carbon Disulfide			2 J									2 J										0.31 J		0.31 J / 0.33 J		
Chlorobenzene	2300 / ND	1900 J	1900 / 1800	2300 J / 2300 J	3000 J / 2700 J	2200 / 2400	1900		2000	2100	2400	2100	1400	2900 J / 3000 J	1300	1100	2500	730	2300	2600	2700	2600	2400	2200 / 2400	2500 / 2400	2500
Chloroform		150 J	110 / 120	130 J / 100 J	160 J / 150 J	160	110				110 J	140 J	99 J	96 / 97	160	67	130 J			180 J	400 J	100	230 J	59 / 60	140 / 140	420 J
Chlorotoluenes																										
cis-1,2-Dichloroethene											630		79 J	79 / 76	110	38 J							39 J	8.1 / 8.4	26 / 28	
Dibromochloromethane																										
Dichlorotoluene, total																										
Ethylbenzene		12	9 J / 10 J	12 J / 12 J	24 J / 22 J	15	10					10 J		10 / 10	13							14		10 / 11	12 / 12	
m&p-Xylenes						39	29																			
Methylene Chloride				24 J / 24 J		39	26			100 J	44 J	32 J		25 / 24	38	16 J				150 J		23		3.5 J / 3.8 J	6.4 / 7.2	
o-Xylene						12	9 J																			
Styrene																										
Tetrachloroethene		40 J	13 / 12	16 J / 14 J	50 J / 61 J	38	18					13 J		14 / 14	19	9.5 J						17		5.0 J / 5.3	20 / 23	
Toluene	19000 / 17000	16000 J	16000 / 17000	1000 D / 21000 、	24000 / 22000	20000 j / 19000	15000		16000	18000	21000	23000	13000	24000 / 24000	11000	3100	14000	6100	20000	20000	23000	19000	21000	17000 / 19000	22000 / 21000	25000
trans-1,2-Dichloroethene		58 J	67 / 70	67 J / 70 J	59 J / 60 J						52 J	50 J	32 J	30 / 30	48	17 J						31	34 J	27 / 27	29 / 35	
Trichloroethene		170 J	58 / 70	60 J / 72 J	180 J / 140 J	160 / 130 J	91				46 J	89 J	27 J	91 / 89	140	52				110 J	78 J	73	71 J	26 / 28	120 / 130	120 J
Trichlorotoluene, total																										
Vinyl Acetate																										
Vinyl Chloride		48 J	62 / 61	110 J / 85 J	66 J / 75 J	48	51							27 / 17	31							15		3.9 J / 5.0 U	10 / 11	
Xylenes (total)		55 J	44 / 43	42 J / 44 J								37 J		44 / 53	51							58	35 J	47 / 48	58 / 58	
Semi-volatile Organic Compounds (µg/L)																										
1,2,4-Trichlorobenzene		78 J	45 J / 65 J	45 J / 36 J	65 J / 42 J		97 J		67 J		63	47 J	28	110 / 110	78 J	76 J	74 J	69	64 J		22 J			28 J / 14 J	93 / 100	51 J
1,2-Dichlorobenzene			24 J / 30 J	18 J / 22 J	48 J		59 J		36 J		37	31 J	10 J	68 / 52	57 J	45 J		45	34 J	47 J	14 J				25 / 34	29 J	
1,3-Dichlorobenzene											3 J	87 J		4.1 J / 5.5 J				5.2 J							3.6 J / 4.1 J	
1,4-Dichlorobenzene			61 J / 74 J	59 J / 52 J	110 J / 69 J		160 J		100 J	110 J	100	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	82 J
2,4,5-Trichlorophenol		38 J		0.9 J							8 J							10							37 / 26	23 J
Semi-volatile Organic Compounds (µg/L) (Continued)																										
2,4,6-Trichlorophenol				1 J									6 J	28 / 23				12								
2,4-Dichlorophenol	2100 / 2100	2000	690 / 610	1400 J / 470 J	620 J / 1200 J	1800 J / 1500 J	1700		420	300 J	250	490	150	1200 / 1100	780	590	240	360	660	790	42 J		120 J	35 J / 94 U	330 / 350	140
2,4-Dimethylphenol				2 J																					8.9 J / 6.9 J	
2-Chloronaphthalene					370 J / 550 J												150 J	210								
2-Chlorophenol		28 J	25 J								18		17 J	31 / 26				28			12 J				27 / 31	18 J
2-Methylnaphthalene																									1.4 J / 1.2 U	
2-Methylphenol		55 J	42 J / 35 J	160 J	41 J		50 J		25 J		33	34 J	140	66 J / 50 J	42 J	30 J		29	23 J	44 J					32 / 32	28 J
3&4-Methylphenol																						34	80 J	31 J / 94 U	71 / 71	74 J
2-Nitrophenol				1 J																						
3,5-Dichlorotoluene																										
4-Chloro-3-methylphenol			25 J / 33 J				41 J				15		26	95 / 97	31 J			23							46 / 40	20 J
4-Chlorophenyl phenyl ether																										
4-Methylphenol		130 J	95 J / 120	99 J / 300 J	130 J / 86 J		210 J		49 J	98 J	110	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	37000 J / 30000 J	23000 J	4300 / 5000	4700 J / 19000 J	6200 J / 4400 J	31000 / 25000	26000		1400 J	4700 J	14000 J	14000	7600 J	39000 J / 54000 J	9500	11000	8700	16000	14000	16000	1100		6000	1300 / 1100	11000 / 10000	3600
Benzyl Alcohol	1900 / 1600	2700	680 / 540	14000 D / 3200 J	330 J / 630 J	2000 / 1700 J	640		23 J		48	580	38	1200 / 1300	610	450	600 J	380 J	290	250	79 J		280 J	61 J / 43 J	290 J / 290	260
Bis(2-Chloroethyl)Ether		24 J	26 J / 25 J						24 J		24	30 J	16 J	29 / 28	34 J	28 J		26	19 J	27 J					20 / 24	18 J
bis(2-Ethylhexyl)Phthalate				41 J / 24 J							53			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			1400 J / 2000 J	4000 J / 1800 J	1400 / 1100				1800 J	4500 J																
N-Nitrosodiphenylamine																										
Pentachlorophenol																										
Phenanthrene																										

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	10135	10135	10135	10135	10135	10135	10135	10135	10135
SampleDate:	**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**	**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**	**6/9/2021**
Parameters																										
Phenol			120 / 96 J		51 J		180 J			100 J	140	130 J	96	140 J / 160 J	100	82	89 J	92	62	87 J	11 J				40 / 44	40 J
Pyrene																										
Pesticides/PCBs (µg/L)																										
4,4'-DDD			0.21 / 0.20 J	0.13 J / 0.071 J					0.19 J	0.11 J		0.081 J	0.13 J		0.048 J		0.036 J	0.089 J								
4,4'-DDE																		0.053								
Aldrin			0.21 J / 0.74 JN		1.5 JN / 0.95 JN	0.12 J / 0.12 J						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	0.80
Alpha-BHC	39 / 39	59	40 / 37 J	50 / 50	43 J / 50 J	43 / 39	49		15	21 C	35	12	17	27 J / 32 J	4.0	21	7.1 J	20	21 J	20	25		23	25 / 26	27 / 25	21
Alpha-Chlordane						0.031 J / 0.017 J						0.011 J														
Aroclor-1260 (PCB-1260)														12 J / 11 J												
beta&gamma-BHC (sum of isomers)																										
Beta-BHC	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	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	6.6
Delta-BHC	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	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	8.8
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					1.6 J / 2.3				0.053 J	0.12 J							
Endosulfan Sulfate			0.18 / 0.17 J	0.17 J			1.3 J					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)	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	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	4.0
Gamma-Chlordane				0.18 J / 0.16 J		0.29 J / 0.35 J					.33 J	0.017 J						0.065	0.064 J	1.1 J						
Heptachlor			0.63 / 0.68 JN				0.61 J					0.092	0.19 J				0.71	0.15 J	0.23 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			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 le
N - Validator qualifier-presumptive certainty, usually used w
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

Table 3.6A

1140 Series Piezometers Water Levels - 2021
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand/Fill Medium

	Well **	
Date	1144 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/15/21	571.41	561.70
06/03/21	570.70	561.70
08/31/21	570.78	561.70
12/02/21	572.60	561.70

Fractured Clay Medium

	Well **			
Date	1144 B (ft. AMSL)	1143 A (ft. AMSL)	1142 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/15/21	571.27	569.87	569.23	561.70
06/03/21	570.70	570.08	569.80	561.70
08/31/21	571.97	570.29	569.97	561.70
12/02/21	572.54	571.04	570.37	561.70

Soft Clay Medium

	Well **						
Date	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)
03/15/21	570.76	569.59	568.02	566.86	565.36	561.70	563.63
06/03/21	570.50	570.13	568.82	567.43	565.81	561.70	563.71
08/31/21	570.86	570.48	569.56	568.09	566.39	561.70	564.24
12/02/21	571.97	570.95	569.90	568.64	566.51	561.70	564.64

Glacial Till Medium

	Well **					
Date	1144 D (ft. AMSL)	1143 D (ft. AMSL)	1142 C (ft. AMSL)	1141 B (ft. AMSL)	Tile Drain (ft. AMSL)	1140 B (ft. AMSL)
03/15/21	568.24	567.14	565.74	565.72	561.70	564.06
06/03/21	569.11	567.64	565.89	566.35	561.70	564.07
08/31/21	569.51	568.33	566.36	566.87	561.70	564.59
12/02/21	570.24	568.75	566.74	567.17	561.70	565.04

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 - 2021
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand/Fill Medium

	Well **	
	1151 D	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)
03/15/21	570.40	561.85
06/03/21	569.19	561.85
08/31/21	569.03	561.85
12/02/21	572.37	561.85

Fractured Clay Medium

	Well **				
	1154 D	1153 E	1153 D	1151 C	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	568.77	569.34	571.49	568.23	561.85
06/03/21	568.15	569.09	570.99	568.72	561.85
08/31/21	568.00	569.01	570.11	568.36	561.85
12/02/21	568.81	569.63	570.41	568.95	561.85

Soft Clay Medium

	Well **					
	1154 B	1154 C	1153 B	1153 C	1151 B	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	567.74	568.10	568.88	570.53	567.46	561.85
06/03/21	567.68	567.98	568.62	570.27	567.61	561.85
08/31/21	568.14	568.31	568.91	569.97	567.97	561.85
12/02/21	568.67	568.64	569.74	576.63	568.44	561.85

Glacial Till Medium

	Well **			
	1154 A	1153 A	1151 A	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	570.46	570.21	566.92	561.85
06/03/21	570.37	569.70	566.74	561.85
08/31/21	572.32	569.21	566.93	561.85
12/02/21	572.05	573.12	567.53	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 - 2021
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand/Fill Medium

	Well **	
Date	1165 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/15/21	572.70	560.60
06/02/20	572.46	560.60
08/31/21	571.56	560.60
12/02/21	573.02	560.60

Silty Sand Medium

	Well **		
Date	1165 C (ft. AMSL)	1163 D (ft. AMSL)	Tile Drain (ft. AMSL)
03/15/21	571.99	DRY	560.60
06/02/20	572.49	DRY	560.60
08/31/21	571.87	DRY	560.60
12/02/21	571.88	DRY	560.60

Fractured Clay Medium

	Well **								
Date	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)
03/15/21	571.21	569.27	569.57	569.46	569.58	569.42	560.60	572.87	DRY
06/02/20	571.35	569.95	570.39	569.83	569.98	570.22	560.60	564.92	DRY
08/31/21	570.78	569.80	570.16	569.69	569.88	570.26	560.60	564.99	566.62
12/02/21	571.84	569.76	569.92	569.56	569.80	570.05	560.60	565.75	567.17

Soft Clay Medium

	Well **								
Date	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)
03/15/21	570.83	571.12	568.52	571.87	568.21	566.50	568.80	565.16	560.60
06/03/21	569.40	568.90	568.27	572.01	568.14	566.63	569.45	565.02	560.60
08/31/21	569.28	569.31	568.87	571.84	568.60	566.98	569.34	565.44	560.60
12/02/21	572.11	571.63	569.95	571.94	569.14	567.43	569.31	565.98	560.60

Glacial Till Medium

	Well **			
Date	10176 D (ft. AMSL)	1162 D (ft. AMSL)	1161 A (ft. AMSL)	Tile Drain (ft. AMSL)
03/15/21	567.00	567.44	565.00	560.60
06/03/21	567.27	567.36	564.97	560.60
08/31/21	567.69	567.56	565.32	560.60
12/02/21	568.49	568.15	565.86	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 - 2021
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well **		
	1174 D	1173 D	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	568.72	571.78	555.60
06/03/21	568.03	571.64	555.60
08/31/21	567.93	571.52	555.60
12/02/21	568.57	572.20	555.60

Soft Clay Medium

	Well **				
	1174 B	1174 C	1173 B	1173 C	1172 B
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	570.16	569.32	569.35	570.96	567.96
06/03/21	570.09	569.45	569.36	571.42	568.06
08/31/21	570.88	570.26	569.69	571.61	567.91
12/02/21	570.97	570.57	570.36	571.56	568.86

	1172 C	1171 B	1171 C	Tile Drain	1170 B
	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	568.46	562.28	561.36	555.60	573.39
06/03/21	568.81	562.12	561.14	555.60	571.08
08/31/21	569.14	562.37	561.33	555.60	568.91
12/02/21	569.49	562.87	561.85	555.60	573.60

Glacial Till Medium

	Well **					
	1174 A	1173 A	1172 A	1171 A	Tile Drain	1170 A
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	570.43	569.08	566.31	563.42	555.60	562.30
06/03/21	570.65	568.77	566.21	563.41	555.60	562.08
08/31/21	570.39	567.67	566.09	563.39	555.60	562.12
12/02/21	571.27	568.56	566.23	563.70	555.60	562.57

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 - 2021
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Silty Sand Medium

	Well **	
	1183 D	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)
03/15/21	566.77	560.00
06/03/21	566.80	560.00
08/31/21	566.80	560.00
12/02/21	566.89	560.00

Fractured Clay Medium

	Well **				
	1184 C	1184 D	1183 C	1183 B	1181 C
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	567.28	568.24	566.72	564.43	568.92
06/03/21	566.29	567.42	566.83	564.55	567.57
08/31/21	564.78	DRY	567.05	564.76	567.27
12/02/21	566.59	DRY	567.37	565.67	569.76

	Tile Drain	1180 C
Date	(ft. AMSL)	(ft. AMSL)
03/15/21	560.00	DRY
06/03/21	560.00	DRY
08/31/21	560.00	DRY
12/02/21	560.00	DRY

Soft Clay Medium

	Well **			
	1184 B	1181 B	Tile Drain	1180 B
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	564.29	566.63	560.00	561.02
06/03/21	564.08	566.04	560.00	561.05
08/31/21	564.17	566.30	560.00	561.19
12/02/21	564.75	567.25	560.00	561.78

Glacial Till Medium

	Well **				
	1184 A	1183 A	1181 A	Tile Drain	1180 A
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	563.92	563.63	568.41	560.00	562.93
06/03/21	564.18	563.97	567.06	560.00	563.21
08/31/21	563.95	564.18	566.87	560.00	563.27
12/02/21	564.40	564.62	569.10	560.00	563.52

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.

Table 3.6F

1190 Series Piezometers Water Levels - 2021
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

Fractured Clay Medium

	Well **			
	1194 D	1193 D	1192 C	Tile Drain
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	573.11	570.48	569.11	554.80
06/03/21	572.24	571.05	569.22	554.80
08/31/21	571.13	571.17	569.67	554.80
12/02/21	574.03	571.46	569.81	554.80

Soft Clay Medium

	Well **					
	1194 B	1194 C	1193 B	1193 C	1192 B	1191 B
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	569.25	573.60	567.94	569.90	568.06	564.86
06/03/21	569.08	570.82	568.06	570.26	568.16	564.95
08/31/21	568.76	571.09	568.58	570.69	568.53	565.22
12/02/21	570.28	574.44	568.93	570.77	568.77	565.45

	1191 C	Tile Drain	1190 B
	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	563.68	554.80	563.35
06/03/21	563.58	554.80	562.22
08/31/21	563.78	554.80	562.12
12/02/21	564.23	554.80	562.85

Glacial Till Medium

	Well **					
	1194 A	1193 A	1192 A	1191 A	Tile Drain	1190 A
Date	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)	(ft. AMSL)
03/15/21	563.97	565.24	564.01	565.07	554.80	564.80
06/03/21	564.21	565.23	564.30	565.02	554.80	564.44
08/31/21	564.18	565.49	564.28	565.05	554.80	564.16
12/02/21	564.89	565.96	564.89	565.13	554.80	564.46

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 Vicinty of Well 10135
Love Canal Long-Term Monitoring Program
Niagara Falls, New York

	Well Location				
Date	Well 1165A (ft. AMSL)	Well 10135 (ft. AMSL)	Well 1163A (ft. AMSL)	Well 1161E (ft. AMSL)	Barrier Drain * (ft. AMSL)
March 2021	571.87	568.94	568.21	565.16	560.60
June 2021	572.01	569.57	568.14	565.02	560.60
August 2021	571.84	570.78	568.60	565.44	560.60
December 2021	571.94	571.01	569.14	565.98	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

11/16/2021

Joseph Branch Project Coordinator (joseph_branch@oxy.com)
OCC/Glenn Springs Holdings, Inc.
7601 Old Channel Trail
Montaque, 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, 2022**. 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.

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 Andrew Zwack, Project Manager, at the following address:

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

Phone number: 716-851-7284 E-mail: andrew.zwack@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
Andrew Zwack, Project Manager
Stanley Radon, Hazardous Waste Remediation Supervisor, 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, 2021 to December 31, 2021

		YES	NO
1.	Is the information above correct?	☒	☐
	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?	☐	☒
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
	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?	☐	☒

Box 2

		YES	NO
6.	Is the current site use consistent with the use(s) listed below?	☒	☐
7.	Are all ICs/ECs in place and functioning as designed?	☒	☐

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**

Parcel	Engineering Control	Institutional Control
232 Parcels	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

161.19-1-1
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161.14-3-11 161.18-1-18

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

LC

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 (print name) at 7601 Old Channel Trail, Montague, MI 49437 (print business address).

am certifying as Remedial Party (Owner or Remedial Party)

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

Signature of Owner or Remedial Party Rendering Certification

1/25/2022
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 (print name) at 2055 Niagara Falls Boulevard, Niagara Falls, NY 14304 (print business address)

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

STATE OF NEW YORK
RICHARD J. SNYDER
No. 66242
LICENSED PROFESSIONAL ENGINEER

Stamp (Required for PE)

January 28, 2022
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

SEMIANNUAL LANDFILL CAP, SITE COVER, AND FENCE INSPECTION

Site: Love Canal
Date: 5/24/2021 **Weather:** Sunny 76o F
Inspector: Darrell Crockett

Inspection Item	Applicable to Site	Inspect For	
1. **Landfill Cap**	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. **Site Cover** (Asphalt, Grass, Vegetation)	N	- signs of erosion (cover, ditches, swales)	Y / N
		- 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. **Perimeter Fence**	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)**

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

SEMIANNUAL LANDFILL CAP, SITE COVER, AND FENCE INSPECTION

Site: Love Canal
Date: 10/14/2021 **Weather:** Sunny 75 F
Inspector: Darrell Crockett

Inspection Item	Applicable to Site	Inspect For	
1. **Landfill Cap**	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. **Site Cover** (Asphalt, Grass, Vegetation)	N	- signs of erosion (cover, ditches, swales)	Y / N
		- 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. **Perimeter Fence**	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)**

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Love Canal Semiannual Barrier System / Pump Chamber Inspections

Date: 5/18/2021 ***Weather:*** 52o F
Inspector: Darrell Crockett

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	Y	
PC-2	Y	
PC-3	Y	
PC-1A	Y	
PC-2A	Y	
PC-3A	Y	

Comments:

Signature: *Darrell Crockett*

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum

Love Canal Semiannual Barrier System / Pump Chamber Inspections

Date: 7/20/2021 ***Weather:*** 85 F
Inspector: Darrell Crockett

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	Y	
PC-2	Y	
PC-3	Y	
PC-1A	Y	
PC-2A	Y	
PC-3A	Y	

Comments:

Signature: *Darrell Crockett*

Glenn Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

Love Canal Semi-Annual Barrier Drain Manhole Inspection

Date 5/11/2021

Sector	MH No.	Location	Water Y/N	Level Feet	Debris Y/N	Structure OK	Cleaning Y/N	Comments
North Colvin	MH-10A	NW	N	3.5"	N	Y	N	
	MH-8A	NW	Y	3.5"	N	Y	N	
	MH-6C	NW	Y	3.5"	Y	Y	N	Some built up sludge
	MH-6B	NW	Y	3"	Y	Y	N	Some built up sludge
	MH-6A	NW	Y	3"	Y	Y	N	Some built up sludge
	PC-2A	NW	Y	3'	N	Y	N	
	MH-4A	NW	Y	3	N	Y	N	
	MH-2A	NW	Y	3	N	Y	N	
	MH-2	SW	Y	3"	Y	Y	N	
	MH-4	SW	Y	3"	N	Y	N	
	MH-6	SW	Y	3"	N	Y	N	
	MH-8/PC2	SW	Y	4'	N	Y	N	
	MH-10	SW	Y	3"	N	Y	N	
	MH-12	SW	Y	3"	N	Y	N	
South Frontier	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"	N	Y	N	
	PC1A	NE	Y	3.5'	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	2"	N	Y	N	
	MH-3	SE	Y	2"	N	Y	N	
	MH-5	SE	N	2"	N	Y	N	
	MH-7/PC1	SE	Y	3"	N	Y	N	
	MH-9	SE	Y	3"	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 10/14/2021

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
	MH-6B	NW	Y	3"	Y	Y	N	Some built up sludge
	MH-6A	NW	Y	3"	Y	Y	N	Some built up sludge
	PC-2A	NW	Y	4.5'	N	Y	N	
	MH-4A	NW	Y	2"	N	Y	N	
	MH-2A	NW	Y	2"	N	Y	N	
	MH-2	SW	Y	2"	Y	Y	N	
	MH-4	SW	Y	3"	N	Y	N	
	MH-6	SW	Y	3"	N	Y	N	
	MH-8/PC2	SW	Y	1.9'	N	Y	N	
	MH-10	SW	Y	3"	N	Y	N	
	MH-12	SW	Y	3"	N	Y	N	
South Frontier	MH-14	SW	Y	3"	N	Y	N	
North Colvin	NH-17A	NE	N	2"	N	Y	N	
	MH-15A	NE	Y	3"	N	Y	N	
	MH-13A	NE	Y	2"	N	Y	N	
	PC1A	NE	Y	3'	Y	Y	N	
	MH-11A	NE	Y	3"	N	Y	N	
	MH-9A	NE	Y	3"	N	Y	N	
	MH-7A	NE	Y	2"	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"	N	Y	N	
	MH-5	SE	N	2"	N	Y	N	
	MH-7/PC1	SE	Y	3"	N	Y	N	
	MH-9	SE	Y	3"	N	Y	N	
	MH-11	SE	Y	2"	Y	Y	N	
South Frontier	MH-13	SE	Y	2"	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

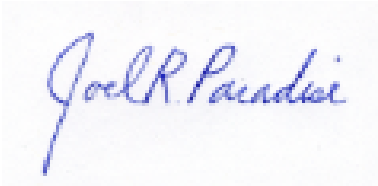
Located at: **805 - 97th Street, Niagara Falls, NY 14304**

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	97th Street Discharge	97th Street	Carbon treated leachate from the Love Canal Leachate Treatment Facility and the 102nd 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 Waster 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 Industrials 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 if 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
Chlorodibromethane	Ethylbenzene	Vinyl Chloride
Monochlorobenzene	Tetrachloroethanes	Monochlorotoluenes
Dichlorobromethane	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	REF. NO.:	009954
FROM:	Jane Pietraszek-Polovich/adh/8	DATE:	August 5, 2010
C.C.:	Darrell Crockett, Dennis Hoyt, John Pentilchuk, Dave Tyran, Filing		
RE:	**Love Canal Annual Groundwater Sampling Schedule**		

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.

REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

TABLE 1

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

Annual Wells	*Biannual Wells*	
Bedrock Wells	*Overburden Wells Group I (2009)*	*Overburden Wells Group II (2010)*
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		

Overburden Wells

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
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Appendix E

Laboratory Reports

June 25, 2021 Service Request No:R2105719

Ms. Kathy Willy
GHD
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 09, 2021
For your reference, these analyses have been assigned our service request number **R2105719.**

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

ALS Environmental

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/09/2021
Sample Matrix: Water

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 06/09/2021. 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, 06/15/2021: 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, 06/15/2021: The lower control limit for the spike recovery of the Laboratory Control Sample/Matrix Spike/Matrix SPike Duplicate (LCS/MS/MSD) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. Samples will be re-extracted outside of holding time. The analytes affected are flagged in the LCS Summary and the MS Summary.

Method 8270D, 06/17/2021: 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.

Semivoa GC:

Method 8082A, 06/17/2021: 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, 06/17/2021: 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, 06/17/2021: 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, 06/17/2021: 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, 06/19/2021: 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 06/25/2021

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) **Service Request:**R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2105719-001	WG-9954-060821SG-001	6/8/2021	1035
R2105719-002	WG-9954-060821SG-002	6/8/2021	1115
R2105719-003	WG-9954-060821SG-003	6/8/2021	1150
R2105719-004	TB-9954-060821-SG-001	6/8/2021	1000
R2105719-005	WG-9954-060821SG-004	6/8/2021	1225
R2105719-006	WG-9954-060821SG-005	6/8/2021	1305
R2105719-007	WG-9954-060821SG-006	6/8/2021	1350

CHAIN OF CUSTODY RECORD

COC Number:

ADDRESS: 2055 NIAGARA FALLS BVD N FALLS PAGE 1 OF 1

PHONE: FAX:

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /D:			Total # of Containers: ~~151~~ (SG) 45

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Grab (G) or Comp (C)	Filtered (Y/N)	Analysis Requested: VOC	SVOC	PEST/PCB	Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	WG-9954-060821-SG-001	06/08/21	10:35	W	G	N	X	X	X	7		
2	WG-9954-060821-SG-002	06/08/21	11:15	W	G	N	X	X	X	7		
3	WG-9954-060821-SG-003	06/08/21	11:50	W	G	N	X	X	X	7		
4	TB-9954-060821-SG-001	06/08/21	10:00	W	G	N	X			3		
5	WG-9954-060821-SG-004	06/08/21	12:25	W	G	N	X	X	X	7		
6	WG-9954-060821-SG-005	06/08/21	13:05	W	G	N	X	X	X	7		
7	WG-9554-060821-SG-006	06/08/21	13:50	W	G	N	X	X	X	7		
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

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GHD
Love Canal:292-402-D02-3100

TAT Required in business days (use separate COCs fro different TATs)
(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time		Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/8/21	1440	1		ALS	6/9/21	1030
2					2				
3					3				

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GHD
Love Canal:292-402-D02-3100

Cooler Receipt and Preservation Check Form

Project/Client GHD Folder Number

Cooler received on 6/9/21 by: MM

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: 6/9/21 Time: 12:20 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	-.4						
Within 0-6°C?	Y 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: Floor by MM on 6/9/21 at 12:30

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/10/21 Time: 1358 by: AD

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 Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		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: 0538, 76626-C2715

Explain all Discrepancies/ Other Comments:

* 2 Trip blank vials had sig headspace

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: AD

PC Secondary Review: _____

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

Client: GHD **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105719-001.01					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-001.02					
	8081B				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105719-001.03					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1216	In Lab / KRUEST	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-001.04					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-001.05					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-001.06					
	8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-001.07					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-001.08					
	8082A				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-001.09					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	

Client: GHD **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-002.01					
	8081B				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105719-002.02					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-002.03					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1216	In Lab / KRUEST	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-002.04					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105719-002.05					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-002.06					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-002.07					
	8270D,8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-002.08					
	8082A				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	

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Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105719-002.09					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/16/2021	0822	In Lab / VSTAUFFER	
R2105719-003.01					
	8081B				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105719-003.02					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-003.03					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1216	In Lab / KRUEST	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-003.04					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105719-003.05					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-003.06					
	8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/16/2021	0822	In Lab / VSTAUFFER	
R2105719-003.07					
	8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-003.08					

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Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8082A				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-003.09					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-004.01					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1216	In Lab / KRUEST	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-004.02					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-004.03					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-005.01					
	8081B				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-005.02					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-005.03					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-005.04					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1216	In Lab / KRUEST	

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Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105719-005.05					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-005.06					
	8270D,8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/16/2021	0822	In Lab / VSTAUFFER	
R2105719-005.07					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-005.08					
	8082A				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105719-005.09					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-006.01					
	8081B				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105719-006.02					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-006.03					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-006.04					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1216	In Lab / KRUEST	

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Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105719-006.05					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-006.06					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-006.07					
	8270D,8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105719-006.08					
	8082A				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-006.09					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-007.01					
	8081B				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105719-007.02					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-007.03					
	8260C				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
		6/17/2021	1420	R-001-S12 / KRUEST	
R2105719-007.04					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	

Client: GHD **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/17/2021	1216	In Lab / KRUEST	
R2105719-007.05					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-001 / GESMERIAN	
R2105719-007.06					
	8270D,8270D				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/11/2021	0821	In Lab / VSTAUFFER	
R2105719-007.07					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105719-007.08					
	8082A				
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	
R2105719-007.09					
		6/10/2021	1358	SMO / GESMERIAN	
		6/10/2021	1405	R-002 / GESMERIAN	

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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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 Certifications[1]

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 laboratoryôs 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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-060821SG-001	**Date Collected:**	06/8/21
Lab Code:	R2105719-001	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060821SG-002	**Date Collected:**	06/8/21
Lab Code:	R2105719-002	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060821SG-002	**Date Collected:**	06/8/21
Lab Code:	R2105719-002.R01	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060821SG-003	**Date Collected:**	06/8/21
Lab Code:	R2105719-003	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: WG-9954-060821SG-003 **Date Collected:** 06/8/21
Lab Code: R2105719-003.R01 **Date Received:** 06/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: TB-9954-060821-SG-001 **Date Collected:** 06/8/21
Lab Code: R2105719-004 **Date Received:** 06/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: WG-9954-060821SG-004 **Date Collected:** 06/8/21
Lab Code: R2105719-005 **Date Received:** 06/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-060821SG-004 **Date Collected:** 06/8/21
Lab Code: R2105719-005.R01 **Date Received:** 06/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-060821SG-005	**Date Collected:**	06/8/21
Lab Code:	R2105719-006	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060821SG-005	**Date Collected:**	06/8/21
Lab Code:	R2105719-006.R01	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060821SG-006	**Date Collected:**	06/8/21
Lab Code:	R2105719-007	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060821SG-006	**Date Collected:**	06/8/21
Lab Code:	R2105719-007.R01	**Date Received:**	06/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	06/17/21 18:18	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 18:18	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 18:18	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 18:18	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 18:18	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 18:18	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 18:18	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 18:18	
2-Hexanone	10 U	10	0.20	1	06/17/21 18:18	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 18:18	
Acetone	10 U	10	5.0	1	06/17/21 18:18	
Benzene	5.0 U	5.0	0.20	1	06/17/21 18:18	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 18:18	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 18:18	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 18:18	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 18:18	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 18:18	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 18:18	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 18:18	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 18:18	
Chloromethane	5.0 U	5.0	0.28	1	06/17/21 18:18	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 18:18	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 18:18	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 18:18	
Styrene	5.0 U	5.0	0.20	1	06/17/21 18:18	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 18:18	
Toluene	5.0 U	5.0	0.20	1	06/17/21 18:18	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 18:18	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 18:18	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 18:18	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 18:18	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 18:18	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 18:18	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 18:18	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 18:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	06/17/21 18:18	
Dibromofluoromethane	97	80 - 116	06/17/21 18:18	
Toluene-d8	100	87 - 121	06/17/21 18:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	06/19/21 13:24	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 13:24	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 13:24	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 13:24	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 13:24	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 13:24	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 13:24	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 13:24	
2-Hexanone	10 U	10	0.20	1	06/19/21 13:24	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 13:24	
Acetone	10 U	10	5.0	1	06/19/21 13:24	
Benzene	5.0 U	5.0	0.20	1	06/19/21 13:24	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 13:24	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 13:24	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 13:24	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 13:24	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 13:24	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 13:24	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 13:24	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 13:24	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 13:24	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 13:24	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 13:24	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 13:24	
Styrene	5.0 U	5.0	0.20	1	06/19/21 13:24	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 13:24	
Toluene	5.0 U	5.0	0.20	1	06/19/21 13:24	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 13:24	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 13:24	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 13:24	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 13:24	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 13:24	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 13:24	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 13:24	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 13:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	06/19/21 13:24	
Dibromofluoromethane	103	80 - 116	06/19/21 13:24	
Toluene-d8	103	87 - 121	06/19/21 13:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	1.54	10.0	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	06/19/21 13:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 13:46	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 13:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 13:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 13:46	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 13:46	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 13:46	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 13:46	
2-Hexanone	10 U	10	0.20	1	06/19/21 13:46	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 13:46	
Acetone	10 U	10	5.0	1	06/19/21 13:46	
Benzene	5.0 U	5.0	0.20	1	06/19/21 13:46	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 13:46	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 13:46	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 13:46	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 13:46	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 13:46	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 13:46	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 13:46	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 13:46	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 13:46	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 13:46	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 13:46	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 13:46	
Styrene	5.0 U	5.0	0.20	1	06/19/21 13:46	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 13:46	
Toluene	5.0 U	5.0	0.20	1	06/19/21 13:46	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 13:46	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 13:46	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 13:46	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 13:46	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 13:46	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 13:46	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 13:46	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 13:46	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	06/19/21 13:46	
Dibromofluoromethane	101	80 - 116	06/19/21 13:46	
Toluene-d8	101	87 - 121	06/19/21 13:46	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	1.45	6.8	JN
	unknown	1.54	19.0	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:00
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	TB-9954-060821-SG-001	**Units:**	ug/L
Lab Code:	R2105719-004	**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	06/17/21 17:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 17:57	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 17:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 17:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 17:57	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 17:57	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 17:57	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 17:57	
2-Hexanone	10 U	10	0.20	1	06/17/21 17:57	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 17:57	
Acetone	10 U	10	5.0	1	06/17/21 17:57	
Benzene	5.0 U	5.0	0.20	1	06/17/21 17:57	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 17:57	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 17:57	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 17:57	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 17:57	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 17:57	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 17:57	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 17:57	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 17:57	
Chloromethane	5.0 U	5.0	0.28	1	06/17/21 17:57	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 17:57	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 17:57	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 17:57	
Styrene	5.0 U	5.0	0.20	1	06/17/21 17:57	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 17:57	
Toluene	5.0 U	5.0	0.20	1	06/17/21 17:57	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 17:57	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 17:57	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 17:57	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 17:57	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 17:57	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 17:57	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 17:57	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 17:57	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:00
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	TB-9954-060821-SG-001	**Units:**	ug/L
Lab Code:	R2105719-004	**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	06/17/21 17:57	
Dibromofluoromethane	98	80 - 116	06/17/21 17:57	
Toluene-d8	99	87 - 121	06/17/21 17:57	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:00
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	TB-9954-060821-SG-001	**Units:**	ug/L
Lab Code:	R2105719-004	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	06/17/21 18:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 18:40	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 18:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 18:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 18:40	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 18:40	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 18:40	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 18:40	
2-Hexanone	10 U	10	0.20	1	06/17/21 18:40	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 18:40	
Acetone	10 U	10	5.0	1	06/17/21 18:40	
Benzene	5.0 U	5.0	0.20	1	06/17/21 18:40	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 18:40	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 18:40	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 18:40	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 18:40	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 18:40	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 18:40	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 18:40	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 18:40	
Chloromethane	5.0 U	5.0	0.28	1	06/17/21 18:40	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 18:40	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 18:40	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 18:40	
Styrene	5.0 U	5.0	0.20	1	06/17/21 18:40	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 18:40	
Toluene	5.0 U	5.0	0.20	1	06/17/21 18:40	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 18:40	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 18:40	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 18:40	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 18:40	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 18:40	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 18:40	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 18:40	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 18:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	06/17/21 18:40	
Dibromofluoromethane	96	80 - 116	06/17/21 18:40	
Toluene-d8	100	87 - 121	06/17/21 18:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	06/17/21 19:02	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 19:02	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 19:02	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 19:02	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 19:02	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 19:02	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 19:02	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 19:02	
2-Hexanone	10 U	10	0.20	1	06/17/21 19:02	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 19:02	
Acetone	10 U	10	5.0	1	06/17/21 19:02	
Benzene	5.0 U	5.0	0.20	1	06/17/21 19:02	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 19:02	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 19:02	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 19:02	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 19:02	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 19:02	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 19:02	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 19:02	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 19:02	
Chloromethane	5.0 U	5.0	0.28	1	06/17/21 19:02	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 19:02	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 19:02	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 19:02	
Styrene	5.0 U	5.0	0.20	1	06/17/21 19:02	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 19:02	
Toluene	5.0 U	5.0	0.20	1	06/17/21 19:02	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 19:02	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 19:02	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 19:02	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 19:02	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 19:02	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 19:02	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 19:02	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 19:02	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	06/17/21 19:02	
Dibromofluoromethane	98	80 - 116	06/17/21 19:02	
Toluene-d8	99	87 - 121	06/17/21 19:02	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	06/17/21 19:24	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 19:24	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 19:24	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 19:24	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 19:24	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 19:24	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 19:24	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 19:24	
2-Hexanone	10 U	10	0.20	1	06/17/21 19:24	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 19:24	
Acetone	10 U	10	5.0	1	06/17/21 19:24	
Benzene	5.0 U	5.0	0.20	1	06/17/21 19:24	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 19:24	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 19:24	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 19:24	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 19:24	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 19:24	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 19:24	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 19:24	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 19:24	
Chloromethane	5.0 U	5.0	0.28	1	06/17/21 19:24	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 19:24	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 19:24	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 19:24	
Styrene	5.0 U	5.0	0.20	1	06/17/21 19:24	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 19:24	
Toluene	5.0 U	5.0	0.20	1	06/17/21 19:24	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 19:24	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 19:24	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 19:24	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 19:24	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 19:24	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 19:24	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 19:24	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 19:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	06/17/21 19:24	
Dibromofluoromethane	101	80 - 116	06/17/21 19:24	
Toluene-d8	101	87 - 121	06/17/21 19:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	1.2	1	06/14/21 21:48	6/11/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
2,4-Dinitrophenol	45 U	45	20	1	06/14/21 21:48	6/11/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/14/21 21:48	6/11/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/14/21 21:48	6/11/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/14/21 21:48	6/11/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/14/21 21:48	6/11/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/14/21 21:48	6/11/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/14/21 21:48	6/11/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/14/21 21:48	6/11/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
4-Nitrophenol	45 U	45	6.4	1	06/14/21 21:48	6/11/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
Anthracene	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/14/21 21:48	6/11/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/14/21 21:48	6/11/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
Benzoic Acid	45 U	45	36	1	06/14/21 21:48	6/11/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/14/21 21:48	6/11/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/14/21 21:48	6/11/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/14/21 21:48	6/11/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
Chrysene	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	1.7	1	06/14/21 21:48	6/11/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/14/21 21:48	6/11/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/14/21 21:48	6/11/21	
Fluorene	9.1 U	9.1	1.3	1	06/14/21 21:48	6/11/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/14/21 21:48	6/11/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/14/21 21:48	6/11/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/14/21 21:48	6/11/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/14/21 21:48	6/11/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/14/21 21:48	6/11/21	
Isophorone	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/14/21 21:48	6/11/21	
Naphthalene	9.1 U	9.1	1.2	1	06/14/21 21:48	6/11/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/14/21 21:48	6/11/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/14/21 21:48	6/11/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/14/21 21:48	6/11/21	
Phenol	9.1 U	9.1	1.0	1	06/14/21 21:48	6/11/21	
Pyrene	9.1 U	9.1	1.5	1	06/14/21 21:48	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	63	35 - 141	06/14/21 21:48	
2-Fluorobiphenyl	43	31 - 118	06/14/21 21:48	
2-Fluorophenol	31	10 - 105	06/14/21 21:48	
Nitrobenzene-d5	47	31 - 110	06/14/21 21:48	
Phenol-d6	20	10 - 107	06/14/21 21:48	
p-Terphenyl-d14	61	10 - 165	06/14/21 21:48	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.52	30	J
	unknown	6.28	4.7	J
	unknown hydrocarbon	6.33	4.1	J
	unknown hydrocarbon	6.36	6.9	J
	unknown hydrocarbon	6.40	11	J
	unknown hydrocarbon	6.57	41	J
	unknown	6.66	5.1	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	6.84	5.0	J
	unknown	6.86	4.0	J
	unknown hydrocarbon	6.92	3.8	J
	unknown hydrocarbon	7.12	18	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	1.2	1	06/14/21 23:12	6/11/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
2,4-Dinitrophenol	45 U	45	20	1	06/14/21 23:12	6/11/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/14/21 23:12	6/11/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/14/21 23:12	6/11/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/14/21 23:12	6/11/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/14/21 23:12	6/11/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/14/21 23:12	6/11/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/14/21 23:12	6/11/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/14/21 23:12	6/11/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
4-Nitrophenol	45 U	45	6.4	1	06/14/21 23:12	6/11/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
Anthracene	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/14/21 23:12	6/11/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/14/21 23:12	6/11/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
Benzoic Acid	45 U	45	36	1	06/14/21 23:12	6/11/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/14/21 23:12	6/11/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/14/21 23:12	6/11/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/14/21 23:12	6/11/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
Chrysene	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	1.7	1	06/14/21 23:12	6/11/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/14/21 23:12	6/11/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/14/21 23:12	6/11/21	
Fluorene	9.1 U	9.1	1.3	1	06/14/21 23:12	6/11/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/14/21 23:12	6/11/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/14/21 23:12	6/11/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/14/21 23:12	6/11/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/14/21 23:12	6/11/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/14/21 23:12	6/11/21	
Isophorone	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/14/21 23:12	6/11/21	
Naphthalene	9.1 U	9.1	1.2	1	06/14/21 23:12	6/11/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/14/21 23:12	6/11/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/14/21 23:12	6/11/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/14/21 23:12	6/11/21	
Phenol	9.1 U	9.1	1.0	1	06/14/21 23:12	6/11/21	
Pyrene	9.1 U	9.1	1.5	1	06/14/21 23:12	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	65	35 - 141	06/14/21 23:12	
2-Fluorobiphenyl	46	31 - 118	06/14/21 23:12	
2-Fluorophenol	34	10 - 105	06/14/21 23:12	
Nitrobenzene-d5	45	31 - 110	06/14/21 23:12	
Phenol-d6	21	10 - 107	06/14/21 23:12	
p-Terphenyl-d14	58	10 - 165	06/14/21 23:12	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	28	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	1.2	1	06/17/21 16:42	6/16/21	*
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 16:42	6/16/21	*
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 16:42	6/16/21	*
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 16:42	6/16/21	*
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 16:42	6/16/21	*
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 16:42	6/16/21	*
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 16:42	6/16/21	*
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 16:42	6/16/21	*
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 16:42	6/16/21	*
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
4-Nitrophenol	45 U	45	6.4	1	06/17/21 16:42	6/16/21	*
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
Anthracene	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 16:42	6/16/21	*
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 16:42	6/16/21	*
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
Benzoic Acid	45 U	45	36	1	06/17/21 16:42	6/16/21	*
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 16:42	6/16/21	*
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 16:42	6/16/21	*
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 16:42	6/16/21	*
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
Chrysene	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	1.7	1	06/17/21 16:42	6/16/21	*
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 16:42	6/16/21	*
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 16:42	6/16/21	*
Fluorene	9.1 U	9.1	1.3	1	06/17/21 16:42	6/16/21	*
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 16:42	6/16/21	*
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 16:42	6/16/21	*
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 16:42	6/16/21	*
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 16:42	6/16/21	*
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 16:42	6/16/21	*
Isophorone	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 16:42	6/16/21	*
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 16:42	6/16/21	*
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 16:42	6/16/21	*
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 16:42	6/16/21	*
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 16:42	6/16/21	*
Phenol	9.1 U	9.1	1.0	1	06/17/21 16:42	6/16/21	*
Pyrene	9.1 U	9.1	1.5	1	06/17/21 16:42	6/16/21	*

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	68	35 - 141	06/17/21 16:42	
2-Fluorobiphenyl	40	31 - 118	06/17/21 16:42	
2-Fluorophenol	31	10 - 105	06/17/21 16:42	
Nitrobenzene-d5	43	31 - 110	06/17/21 16:42	
Phenol-d6	22	10 - 107	06/17/21 16:42	
p-Terphenyl-d14	58	10 - 165	06/17/21 16:42	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	1.2	1	06/14/21 23:40	6/11/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
2,4-Dinitrophenol	45 U	45	20	1	06/14/21 23:40	6/11/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/14/21 23:40	6/11/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/14/21 23:40	6/11/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/14/21 23:40	6/11/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/14/21 23:40	6/11/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/14/21 23:40	6/11/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/14/21 23:40	6/11/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/14/21 23:40	6/11/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
4-Nitrophenol	45 U	45	6.4	1	06/14/21 23:40	6/11/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
Anthracene	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/14/21 23:40	6/11/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/14/21 23:40	6/11/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
Benzoic Acid	45 U	45	36	1	06/14/21 23:40	6/11/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/14/21 23:40	6/11/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/14/21 23:40	6/11/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/14/21 23:40	6/11/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
Chrysene	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	1.7	1	06/14/21 23:40	6/11/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/14/21 23:40	6/11/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/14/21 23:40	6/11/21	
Fluorene	9.1 U	9.1	1.3	1	06/14/21 23:40	6/11/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/14/21 23:40	6/11/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/14/21 23:40	6/11/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/14/21 23:40	6/11/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/14/21 23:40	6/11/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/14/21 23:40	6/11/21	
Isophorone	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/14/21 23:40	6/11/21	
Naphthalene	9.1 U	9.1	1.2	1	06/14/21 23:40	6/11/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/14/21 23:40	6/11/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/14/21 23:40	6/11/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/14/21 23:40	6/11/21	
Phenol	9.1 U	9.1	1.0	1	06/14/21 23:40	6/11/21	
Pyrene	9.1 U	9.1	1.5	1	06/14/21 23:40	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	63	35 - 141	06/14/21 23:40	
2-Fluorobiphenyl	40	31 - 118	06/14/21 23:40	
2-Fluorophenol	31	10 - 105	06/14/21 23:40	
Nitrobenzene-d5	43	31 - 110	06/14/21 23:40	
Phenol-d6	21	10 - 107	06/14/21 23:40	
p-Terphenyl-d14	43	10 - 165	06/14/21 23:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	25	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	1.2	1	06/17/21 17:11	6/16/21	*
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 17:11	6/16/21	*
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 17:11	6/16/21	*
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 17:11	6/16/21	*
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 17:11	6/16/21	*
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 17:11	6/16/21	*
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 17:11	6/16/21	*
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 17:11	6/16/21	*
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 17:11	6/16/21	*
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
4-Nitrophenol	45 U	45	6.4	1	06/17/21 17:11	6/16/21	*
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
Anthracene	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 17:11	6/16/21	*
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 17:11	6/16/21	*
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
Benzoic Acid	45 U	45	36	1	06/17/21 17:11	6/16/21	*
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 17:11	6/16/21	*
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 17:11	6/16/21	*
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 17:11	6/16/21	*
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
Chrysene	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	1.7	1	06/17/21 17:11	6/16/21	*
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 17:11	6/16/21	*
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 17:11	6/16/21	*
Fluorene	9.1 U	9.1	1.3	1	06/17/21 17:11	6/16/21	*
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 17:11	6/16/21	*
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 17:11	6/16/21	*
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 17:11	6/16/21	*
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 17:11	6/16/21	*
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 17:11	6/16/21	*
Isophorone	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 17:11	6/16/21	*
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 17:11	6/16/21	*
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 17:11	6/16/21	*
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 17:11	6/16/21	*
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 17:11	6/16/21	*
Phenol	9.1 U	9.1	1.0	1	06/17/21 17:11	6/16/21	*
Pyrene	9.1 U	9.1	1.5	1	06/17/21 17:11	6/16/21	*

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	69	35 - 141	06/17/21 17:11	
2-Fluorobiphenyl	38	31 - 118	06/17/21 17:11	
2-Fluorophenol	31	10 - 105	06/17/21 17:11	
Nitrobenzene-d5	39	31 - 110	06/17/21 17:11	
Phenol-d6	22	10 - 107	06/17/21 17:11	
p-Terphenyl-d14	50	10 - 165	06/17/21 17:11	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	1.2	1	06/15/21 00:08	6/11/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
2,4-Dinitrophenol	45 U	45	20	1	06/15/21 00:08	6/11/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/15/21 00:08	6/11/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/15/21 00:08	6/11/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/15/21 00:08	6/11/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/15/21 00:08	6/11/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/15/21 00:08	6/11/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/15/21 00:08	6/11/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/15/21 00:08	6/11/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
4-Nitrophenol	45 U	45	6.4	1	06/15/21 00:08	6/11/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
Anthracene	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/15/21 00:08	6/11/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/15/21 00:08	6/11/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
Benzoic Acid	45 U	45	36	1	06/15/21 00:08	6/11/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/15/21 00:08	6/11/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/15/21 00:08	6/11/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/15/21 00:08	6/11/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
Chrysene	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	1.7	1	06/15/21 00:08	6/11/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/15/21 00:08	6/11/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/15/21 00:08	6/11/21	
Fluorene	9.1 U	9.1	1.3	1	06/15/21 00:08	6/11/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/15/21 00:08	6/11/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/15/21 00:08	6/11/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/15/21 00:08	6/11/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/15/21 00:08	6/11/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/15/21 00:08	6/11/21	
Isophorone	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/15/21 00:08	6/11/21	
Naphthalene	9.1 U	9.1	1.2	1	06/15/21 00:08	6/11/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/15/21 00:08	6/11/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/15/21 00:08	6/11/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/15/21 00:08	6/11/21	
Phenol	9.1 U	9.1	1.0	1	06/15/21 00:08	6/11/21	
Pyrene	9.1 U	9.1	1.5	1	06/15/21 00:08	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	61	35 - 141	06/15/21 00:08	
2-Fluorobiphenyl	41	31 - 118	06/15/21 00:08	
2-Fluorophenol	33	10 - 105	06/15/21 00:08	
Nitrobenzene-d5	44	31 - 110	06/15/21 00:08	
Phenol-d6	21	10 - 107	06/15/21 00:08	
p-Terphenyl-d14	51	10 - 165	06/15/21 00:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.52	29	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	1.2	1	06/17/21 17:39	6/16/21	*
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 17:39	6/16/21	*
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 17:39	6/16/21	*
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 17:39	6/16/21	*
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 17:39	6/16/21	*
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 17:39	6/16/21	*
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 17:39	6/16/21	*
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 17:39	6/16/21	*
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 17:39	6/16/21	*
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
4-Nitrophenol	45 U	45	6.4	1	06/17/21 17:39	6/16/21	*
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
Anthracene	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 17:39	6/16/21	*
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 17:39	6/16/21	*
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
Benzoic Acid	45 U	45	36	1	06/17/21 17:39	6/16/21	*
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 17:39	6/16/21	*
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 17:39	6/16/21	*
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 17:39	6/16/21	*
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
Chrysene	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	1.7	1	06/17/21 17:39	6/16/21	*
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 17:39	6/16/21	*
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 17:39	6/16/21	*
Fluorene	9.1 U	9.1	1.3	1	06/17/21 17:39	6/16/21	*
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 17:39	6/16/21	*
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 17:39	6/16/21	*
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 17:39	6/16/21	*
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 17:39	6/16/21	*
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 17:39	6/16/21	*
Isophorone	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 17:39	6/16/21	*
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 17:39	6/16/21	*
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 17:39	6/16/21	*
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 17:39	6/16/21	*
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 17:39	6/16/21	*
Phenol	9.1 U	9.1	1.0	1	06/17/21 17:39	6/16/21	*
Pyrene	9.1 U	9.1	1.5	1	06/17/21 17:39	6/16/21	*

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	65	35 - 141	06/17/21 17:39	
2-Fluorobiphenyl	40	31 - 118	06/17/21 17:39	
2-Fluorophenol	31	10 - 105	06/17/21 17:39	
Nitrobenzene-d5	41	31 - 110	06/17/21 17:39	
Phenol-d6	22	10 - 107	06/17/21 17:39	
p-Terphenyl-d14	50	10 - 165	06/17/21 17:39	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	1.2	1	06/15/21 00:35	6/11/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
2,4-Dinitrophenol	45 U	45	20	1	06/15/21 00:35	6/11/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/15/21 00:35	6/11/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/15/21 00:35	6/11/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/15/21 00:35	6/11/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/15/21 00:35	6/11/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/15/21 00:35	6/11/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/15/21 00:35	6/11/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/15/21 00:35	6/11/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
4-Nitrophenol	45 U	45	6.4	1	06/15/21 00:35	6/11/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
Anthracene	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/15/21 00:35	6/11/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/15/21 00:35	6/11/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
Benzoic Acid	45 U	45	36	1	06/15/21 00:35	6/11/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/15/21 00:35	6/11/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/15/21 00:35	6/11/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/15/21 00:35	6/11/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
Chrysene	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	1.7	1	06/15/21 00:35	6/11/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/15/21 00:35	6/11/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/15/21 00:35	6/11/21	
Fluorene	9.1 U	9.1	1.3	1	06/15/21 00:35	6/11/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/15/21 00:35	6/11/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/15/21 00:35	6/11/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/15/21 00:35	6/11/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/15/21 00:35	6/11/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/15/21 00:35	6/11/21	
Isophorone	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/15/21 00:35	6/11/21	
Naphthalene	9.1 U	9.1	1.2	1	06/15/21 00:35	6/11/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/15/21 00:35	6/11/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/15/21 00:35	6/11/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/15/21 00:35	6/11/21	
Phenol	9.1 U	9.1	1.0	1	06/15/21 00:35	6/11/21	
Pyrene	9.1 U	9.1	1.5	1	06/15/21 00:35	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	35 - 141	06/15/21 00:35	
2-Fluorobiphenyl	35	31 - 118	06/15/21 00:35	
2-Fluorophenol	31	10 - 105	06/15/21 00:35	
Nitrobenzene-d5	37	31 - 110	06/15/21 00:35	
Phenol-d6	20	10 - 107	06/15/21 00:35	
p-Terphenyl-d14	51	10 - 165	06/15/21 00:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	27	JN

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	1.2	1	06/21/21 15:14	6/17/21	*
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 15:14	6/17/21	*
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 15:14	6/17/21	*
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 15:14	6/17/21	*
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 15:14	6/17/21	*
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 15:14	6/17/21	*
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 15:14	6/17/21	*
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 15:14	6/17/21	*
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 15:14	6/17/21	*
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
4-Nitrophenol	45 U	45	6.4	1	06/21/21 15:14	6/17/21	*
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
Anthracene	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 15:14	6/17/21	*
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 15:14	6/17/21	*
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
Benzoic Acid	45 U	45	36	1	06/21/21 15:14	6/17/21	*
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 15:14	6/17/21	*
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 15:14	6/17/21	*
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 15:14	6/17/21	*
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
Chrysene	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	1.7	1	06/21/21 15:14	6/17/21	*
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 15:14	6/17/21	*
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 15:14	6/17/21	*
Fluorene	9.1 U	9.1	1.3	1	06/21/21 15:14	6/17/21	*
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 15:14	6/17/21	*
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 15:14	6/17/21	*
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 15:14	6/17/21	*
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 15:14	6/17/21	*
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 15:14	6/17/21	*
Isophorone	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 15:14	6/17/21	*
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 15:14	6/17/21	*
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 15:14	6/17/21	*
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 15:14	6/17/21	*
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 15:14	6/17/21	*
Phenol	9.1 U	9.1	1.0	1	06/21/21 15:14	6/17/21	*
Pyrene	9.1 U	9.1	1.5	1	06/21/21 15:14	6/17/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	06/21/21 15:14	
2-Fluorobiphenyl	48	31 - 118	06/21/21 15:14	
2-Fluorophenol	43	10 - 105	06/21/21 15:14	
Nitrobenzene-d5	57	31 - 110	06/21/21 15:14	
Phenol-d6	28	10 - 107	06/21/21 15:14	
p-Terphenyl-d14	58	10 - 165	06/21/21 15:14	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	13.98	3.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	1.2	1	06/15/21 01:03	6/11/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
2,4-Dinitrophenol	45 U	45	20	1	06/15/21 01:03	6/11/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/15/21 01:03	6/11/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/15/21 01:03	6/11/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/15/21 01:03	6/11/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/15/21 01:03	6/11/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/15/21 01:03	6/11/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/15/21 01:03	6/11/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/15/21 01:03	6/11/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
4-Nitrophenol	45 U	45	6.4	1	06/15/21 01:03	6/11/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
Anthracene	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/15/21 01:03	6/11/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/15/21 01:03	6/11/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
Benzoic Acid	45 U	45	36	1	06/15/21 01:03	6/11/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/15/21 01:03	6/11/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/15/21 01:03	6/11/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/15/21 01:03	6/11/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
Chrysene	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	1.7	1	06/15/21 01:03	6/11/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/15/21 01:03	6/11/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/15/21 01:03	6/11/21	
Fluorene	9.1 U	9.1	1.3	1	06/15/21 01:03	6/11/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/15/21 01:03	6/11/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/15/21 01:03	6/11/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/15/21 01:03	6/11/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/15/21 01:03	6/11/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/15/21 01:03	6/11/21	
Isophorone	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/15/21 01:03	6/11/21	
Naphthalene	9.1 U	9.1	1.2	1	06/15/21 01:03	6/11/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/15/21 01:03	6/11/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/15/21 01:03	6/11/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/15/21 01:03	6/11/21	
Phenol	9.1 U	9.1	1.0	1	06/15/21 01:03	6/11/21	
Pyrene	9.1 U	9.1	1.5	1	06/15/21 01:03	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	35 - 141	06/15/21 01:03	
2-Fluorobiphenyl	37	31 - 118	06/15/21 01:03	
2-Fluorophenol	31	10 - 105	06/15/21 01:03	
Nitrobenzene-d5	40	31 - 110	06/15/21 01:03	
Phenol-d6	21	10 - 107	06/15/21 01:03	
p-Terphenyl-d14	50	10 - 165	06/15/21 01:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	26	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	1.2	1	06/21/21 15:43	6/17/21	*
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 15:43	6/17/21	*
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 15:43	6/17/21	*
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 15:43	6/17/21	*
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 15:43	6/17/21	*
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 15:43	6/17/21	*
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 15:43	6/17/21	*
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 15:43	6/17/21	*
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 15:43	6/17/21	*
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
4-Nitrophenol	45 U	45	6.4	1	06/21/21 15:43	6/17/21	*
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
Anthracene	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 15:43	6/17/21	*
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 15:43	6/17/21	*
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
Benzoic Acid	45 U	45	36	1	06/21/21 15:43	6/17/21	*
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 15:43	6/17/21	*
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 15:43	6/17/21	*
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 15:43	6/17/21	*
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
Chrysene	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	1.7	1	06/21/21 15:43	6/17/21	*
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 15:43	6/17/21	*
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 15:43	6/17/21	*
Fluorene	9.1 U	9.1	1.3	1	06/21/21 15:43	6/17/21	*
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 15:43	6/17/21	*
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 15:43	6/17/21	*
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 15:43	6/17/21	*
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 15:43	6/17/21	*
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 15:43	6/17/21	*
Isophorone	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 15:43	6/17/21	*
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 15:43	6/17/21	*
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 15:43	6/17/21	*
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 15:43	6/17/21	*
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 15:43	6/17/21	*
Phenol	9.1 U	9.1	1.0	1	06/21/21 15:43	6/17/21	*
Pyrene	9.1 U	9.1	1.5	1	06/21/21 15:43	6/17/21	*

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	68	35 - 141	06/21/21 15:43	
2-Fluorobiphenyl	52	31 - 118	06/21/21 15:43	
2-Fluorophenol	45	10 - 105	06/21/21 15:43	
Nitrobenzene-d5	58	31 - 110	06/21/21 15:43	
Phenol-d6	30	10 - 107	06/21/21 15:43	
p-Terphenyl-d14	60	10 - 165	06/21/21 15:43	

Semivolatile Organic Compounds by GC

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	0.020	1	06/16/21 14:18	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 14:18	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 14:18	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 164	06/16/21 14:18	
Tetrachloro-m-xylene	46	10 - 147	06/16/21 14:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	0.020	1	06/16/21 14:38	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 14:38	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 14:38	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	40	10 - 164	06/16/21 14:38	
Tetrachloro-m-xylene	40	10 - 147	06/16/21 14:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	0.020	1	06/16/21 14:58	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 14:58	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 14:58	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	12	10 - 164	06/16/21 14:58	
Tetrachloro-m-xylene	49	10 - 147	06/16/21 14:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	0.020	1	06/16/21 15:18	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 15:18	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 15:18	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 164	06/16/21 15:18	
Tetrachloro-m-xylene	39	10 - 147	06/16/21 15:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	0.020	1	06/16/21 15:38	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 15:38	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 15:38	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	17	10 - 164	06/16/21 15:38	
Tetrachloro-m-xylene	45	10 - 147	06/16/21 15:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	0.020	1	06/16/21 15:58	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 15:58	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 15:58	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	06/16/21 15:58	
Tetrachloro-m-xylene	48	10 - 147	06/16/21 15:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 10:35
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**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	0.50	1	06/17/21 12:26	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 12:26	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 12:26	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 12:26	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 12:26	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 12:26	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 12:26	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 152	06/17/21 12:26	
Tetrachloro-m-xylene	48	14 - 129	06/17/21 12:26	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:15
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-002	**Units:**	ug/L
Lab Code:	R2105719-002	**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	0.50	1	06/17/21 12:45	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 12:45	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 12:45	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 12:45	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 12:45	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 12:45	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 12:45	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	40	10 - 152	06/17/21 12:45	
Tetrachloro-m-xylene	37	14 - 129	06/17/21 12:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 11:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-003	**Units:**	ug/L
Lab Code:	R2105719-003	**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	0.50	1	06/17/21 13:05	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 13:05	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 13:05	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 13:05	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 13:05	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 13:05	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 13:05	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	12	10 - 152	06/17/21 13:05	
Tetrachloro-m-xylene	51	14 - 129	06/17/21 13:05	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 12:25
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-004	**Units:**	ug/L
Lab Code:	R2105719-005	**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	0.50	1	06/17/21 13:25	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 13:25	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 13:25	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 13:25	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 13:25	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 13:25	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 13:25	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 152	06/17/21 13:25	
Tetrachloro-m-xylene	42	14 - 129	06/17/21 13:25	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:05
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-005	**Units:**	ug/L
Lab Code:	R2105719-006	**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	0.50	1	06/17/21 14:04	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 14:04	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 14:04	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 14:04	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 14:04	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 14:04	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 14:04	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	17	10 - 152	06/17/21 14:04	
Tetrachloro-m-xylene	49	14 - 129	06/17/21 14:04	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21 13:50
Sample Matrix:	Water	**Date Received:**	06/09/21 10:30
Sample Name:	WG-9954-060821SG-006	**Units:**	ug/L
Lab Code:	R2105719-007	**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	0.50	1	06/17/21 14:24	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 14:24	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 14:24	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 14:24	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 14:24	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 14:24	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 14:24	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	25	10 - 152	06/17/21 14:24	
Tetrachloro-m-xylene	49	14 - 129	06/17/21 14:24	

QC Summary 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

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-060821SG-001	R2105719-001	96	97	100
WG-9954-060821SG-002	R2105719-002	94	103	103
WG-9954-060821SG-003	R2105719-003	91	101	101
TB-9954-060821-SG-001	R2105719-004	96	98	99
WG-9954-060821SG-004	R2105719-005	96	96	100
WG-9954-060821SG-005	R2105719-006	95	98	99
WG-9954-060821SG-006	R2105719-007	96	101	101
Method Blank	RQ2106909-04	97	100	101
Method Blank	RQ2107042-04	93	99	103
Lab Control Sample	RQ2106909-03	100	100	102
Lab Control Sample	RQ2107042-03	88	98	95

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106909-04	**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	06/17/21 12:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 12:30	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 12:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 12:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 12:30	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 12:30	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 12:30	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 12:30	
2-Hexanone	10 U	10	0.20	1	06/17/21 12:30	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 12:30	
Acetone	10 U	10	5.0	1	06/17/21 12:30	
Benzene	5.0 U	5.0	0.20	1	06/17/21 12:30	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 12:30	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 12:30	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 12:30	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 12:30	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 12:30	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 12:30	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 12:30	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 12:30	
Chloromethane	5.0 U	5.0	0.28	1	06/17/21 12:30	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 12:30	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 12:30	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 12:30	
Styrene	5.0 U	5.0	0.20	1	06/17/21 12:30	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 12:30	
Toluene	5.0 U	5.0	0.20	1	06/17/21 12:30	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 12:30	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 12:30	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 12:30	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 12:30	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 12:30	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 12:30	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 12:30	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 12:30	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106909-04	**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	06/17/21 12:30	
Dibromofluoromethane	100	80 - 116	06/17/21 12:30	
Toluene-d8	101	87 - 121	06/17/21 12:30	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106909-04	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107042-04	**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	06/19/21 12:55	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 12:55	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 12:55	
2-Hexanone	10 U	10	0.20	1	06/19/21 12:55	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 12:55	
Acetone	10 U	10	5.0	1	06/19/21 12:55	
Benzene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 12:55	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 12:55	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 12:55	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 12:55	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 12:55	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 12:55	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 12:55	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 12:55	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Styrene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 12:55	
Toluene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 12:55	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 12:55	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 12:55	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 12:55	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 12:55	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 12:55	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 12:55	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 12:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107042-04	**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	06/19/21 12:55	
Dibromofluoromethane	99	80 - 116	06/19/21 12:55	
Toluene-d8	103	87 - 121	06/19/21 12:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107042-04	**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			

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2106909-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.7	20.0	94	75-125
1,1,2,2-Tetrachloroethane	8260C	16.7	20.0	83	78-126
1,1,2-Trichloroethane	8260C	18.1	20.0	90	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.4	20.0	92	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.0	20.0	120 *	71-118
1,2-Dichloroethane	8260C	18.3	20.0	91	71-127
1,2-Dichloropropane	8260C	18.4	20.0	92	80-119
2-Butanone (MEK)	8260C	15.7	20.0	78	61-137
2-Hexanone	8260C	15.6	20.0	78	63-124
4-Methyl-2-pentanone	8260C	16.3	20.0	81	66-124
Acetone	8260C	16.4	20.0	82	40-161
Benzene	8260C	18.9	20.0	95	79-119
Bromodichloromethane	8260C	19.0	20.0	95	81-123
Bromoform	8260C	16.8	20.0	84	65-146
Bromomethane	8260C	21.9	20.0	110	42-166
Carbon Disulfide	8260C	19.2	20.0	96	66-128
Carbon Tetrachloride	8260C	18.6	20.0	93	70-127
Chlorobenzene	8260C	17.8	20.0	89	80-121
Chloroethane	8260C	20.0	20.0	100	62-131
Chloroform	8260C	17.8	20.0	89	79-120
Chloromethane	8260C	19.9	20.0	99	65-135
Dibromochloromethane	8260C	16.4	20.0	82	72-128
Dichloromethane	8260C	18.5	20.0	93	73-122
Ethylbenzene	8260C	18.3	20.0	91	76-120
Styrene	8260C	18.6	20.0	93	80-124
Tetrachloroethene (PCE)	8260C	18.6	20.0	93	72-125
Toluene	8260C	19.0	20.0	95	79-119
Trichloroethene (TCE)	8260C	18.6	20.0	93	74-122
Vinyl Acetate	8260C	20.9	20.0	104	52-174
Vinyl Chloride	8260C	19.0	20.0	95	74-159
cis-1,2-Dichloroethene	8260C	19.3	20.0	97	80-121
cis-1,3-Dichloropropene	8260C	19.0	20.0	95	77-122
trans-1,2-Dichloroethene	8260C	21.3	20.0	107	73-118

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

Service Request: R2105719
Date Analyzed: 06/17/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2106909-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	18.9	20.0	95	71-133

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/19/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107042-03

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	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	18.8	20.0	94	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.2	20.0	106	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	25.0	20.0	125 *	71-118
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
2-Butanone (MEK)	8260C	19.7	20.0	99	61-137
2-Hexanone	8260C	20.5	20.0	102	63-124
4-Methyl-2-pentanone	8260C	20.0	20.0	100	66-124
Acetone	8260C	15.5	20.0	78	40-161
Benzene	8260C	20.1	20.0	100	79-119
Bromodichloromethane	8260C	19.8	20.0	99	81-123
Bromoform	8260C	20.1	20.0	100	65-146
Bromomethane	8260C	19.1	20.0	96	42-166
Carbon Disulfide	8260C	22.2	20.0	111	66-128
Carbon Tetrachloride	8260C	21.1	20.0	106	70-127
Chlorobenzene	8260C	20.1	20.0	100	80-121
Chloroethane	8260C	20.8	20.0	104	62-131
Chloroform	8260C	20.7	20.0	103	79-120
Chloromethane	8260C	20.2	20.0	101	65-135
Dibromochloromethane	8260C	18.7	20.0	94	72-128
Dichloromethane	8260C	21.3	20.0	106	73-122
Ethylbenzene	8260C	19.7	20.0	98	76-120
Styrene	8260C	20.2	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	20.8	20.0	104	72-125
Toluene	8260C	20.0	20.0	100	79-119
Trichloroethene (TCE)	8260C	19.8	20.0	99	74-122
Vinyl Acetate	8260C	26.1	20.0	130	52-174
Vinyl Chloride	8260C	19.3	20.0	97	74-159
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	20.5	20.0	102	77-122
trans-1,2-Dichloroethene	8260C	23.1	20.0	116	73-118

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

Service Request: R2105719
Date Analyzed: 06/19/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107042-03

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
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-060821SG-001	R2105719-001	63	43	31
WG-9954-060821SG-002	R2105719-002	65	46	34
WG-9954-060821SG-002 RE	R2105719-002	68	40	31
WG-9954-060821SG-003	R2105719-003	63	40	31
WG-9954-060821SG-003 RE	R2105719-003	69	38	31
WG-9954-060821SG-004	R2105719-005	61	41	33
WG-9954-060821SG-004 RE	R2105719-005	65	40	31
WG-9954-060821SG-005	R2105719-006	60	35	31
WG-9954-060821SG-005 RE	R2105719-006	75	48	43
WG-9954-060821SG-006	R2105719-007	60	37	31
WG-9954-060821SG-006 RE	R2105719-007	68	52	45
Method Blank	RQ2106847-03	75	37	31
Method Blank	RQ2106892-01	64	36	38
Lab Control Sample	RQ2106847-04	87	55	41
Duplicate Lab Control Sample	RQ2106847-05	89	61	40
Lab Control Sample	RQ2106892-02	81	51	49
Duplicate Lab Control Sample	RQ2106892-03	84	50	50
WG-9954-060821SG-001 MS	RQ2106638-04	68	44	32
WG-9954-060821SG-001 DMS	RQ2106638-05	71	49	34
Method Blank	RQ2106638-01	65	39	36
Lab Control Sample	RQ2106638-02	70	46	37
Duplicate Lab Control Sample	RQ2106638-03	70	52	37

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-060821SG-001	R2105719-001	47	20	61
WG-9954-060821SG-002	R2105719-002	45	21	58
WG-9954-060821SG-002 RE	R2105719-002	43	22	58
WG-9954-060821SG-003	R2105719-003	43	21	43
WG-9954-060821SG-003 RE	R2105719-003	39	22	50
WG-9954-060821SG-004	R2105719-005	44	21	51
WG-9954-060821SG-004 RE	R2105719-005	41	22	50
WG-9954-060821SG-005	R2105719-006	37	20	51
WG-9954-060821SG-005 RE	R2105719-006	57	28	58
WG-9954-060821SG-006	R2105719-007	40	21	50
WG-9954-060821SG-006 RE	R2105719-007	58	30	60
Method Blank	RQ2106847-03	39	22	68
Method Blank	RQ2106892-01	49	25	70
Lab Control Sample	RQ2106847-04	59	30	70
Duplicate Lab Control Sample	RQ2106847-05	59	30	64
Lab Control Sample	RQ2106892-02	60	36	78
Duplicate Lab Control Sample	RQ2106892-03	53	34	77
WG-9954-060821SG-001 MS	RQ2106638-04	42	22	45
WG-9954-060821SG-001 DMS	RQ2106638-05	48	23	56
Method Blank	RQ2106638-01	45	23	69
Lab Control Sample	RQ2106638-02	47	24	70
Duplicate Lab Control Sample	RQ2106638-03	51	27	70

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/09/21
		Date Analyzed:	06/14/21
		Date Extracted:	06/11/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106638-04			RQ2106638-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	9.1 U	28.0	72.7	39	32.4	72.7	45	10-127	14	30
1,2-Dichlorobenzene	9.1 U	26.5	72.7	36	29.4	72.7	40	17-105	11	30
1,3-Dichlorobenzene	9.1 U	26.0	72.7	36	28.9	72.7	40	21-99	11	30
1,4-Dichlorobenzene	9.1 U	25.7	72.7	35	28.8	72.7	40	10-124	13	30
2,4,5-Trichlorophenol	9.1 U	43.1	72.7	59	46.5	72.7	64	48-134	8	30
2,4,6-Trichlorophenol	9.1 U	38.5	72.7	53	41.8	72.7	57	44-135	7	30
2,4-Dichlorophenol	9.1 U	33.1	72.7	46	37.2	72.7	51	40-130	10	30
2,4-Dimethylphenol	9.1 U	35.2	72.7	48	37.7	72.7	52	35-99	8	30
2,4-Dinitrophenol	45 U	49.3	72.7	68	56.5	72.7	78	21-168	14	30
2,4-Dinitrotoluene	9.1 U	44.1	72.7	61	50.0	72.7	69	37-143	12	30
2,6-Dinitrotoluene	9.1 U	49.2	72.7	68	54.6	72.7	75	39-136	10	30
2-Chloronaphthalene	9.1 U	34.6	72.7	48	38.2	72.7	53	40-108	10	30
2-Chlorophenol	9.1 U	28.9	72.7	40	32.2	72.7	44	37-112	10	30
2-Methylnaphthalene	9.1 U	34.5	72.7	47	39.1	72.7	54	34-102	14	30
2-Methylphenol	9.1 U	33.9	72.7	47	36.1	72.7	50	37-102	6	30
2-Nitroaniline	9.1 U	45.4	72.7	62	49.4	72.7	68	40-136	9	30
2-Nitrophenol	9.1 U	31.7	72.7	44	34.7	72.7	48	27-143	9	30
3,3'-Dichlorobenzidine	9.1 U	44.0	72.7	60	47.7	72.7	66	11-131	10	30
3- and 4-Methylphenol Coelution	9.1 U	32.6	72.7	45	36.7	72.7	50	30-95	11	30
3-Nitroaniline	9.1 U	39.3	72.7	54	42.2	72.7	58	19-117	7	30
4,6-Dinitro-2-methylphenol	45 U	46.0	72.7	63	50.6	72.7	70	25-154	11	30
4-Bromophenyl Phenyl Ether	9.1 U	47.0	72.7	65	52.6	72.7	72	39-115	10	30
4-Chloro-3-methylphenol	9.1 U	38.8	72.7	53	43.6	72.7	60	41-126	12	30
4-Chloroaniline	9.1 U	39.1	72.7	54	42.4	72.7	58	19-111	7	30
4-Chlorophenyl Phenyl Ether	9.1 U	44.1	72.7	61	49.3	72.7	68	41-111	11	30
4-Nitroaniline	9.1 U	38.0	72.7	52	43.2	72.7	59	18-143	13	30
4-Nitrophenol	45 U	25.3 J	72.7	35	27.3 J	72.7	38	10-126	8	30
Acenaphthene	9.1 U	38.7	72.7	53	42.6	72.7	59	43-117	11	30
Acenaphthylene	9.1 U	40.6	72.7	56	45.2	72.7	62	45-119	10	30
Anthracene	9.1 U	42.5	72.7	58	48.0	72.7	66	45-127	13	30
Benz(a)anthracene	9.1 U	32.1	72.7	44 *	38.2	72.7	53	46-126	19	30
Benzo(a)pyrene	9.1 U	32.5	72.7	45	39.5	72.7	54	44-114	18	30
Benzo(b)fluoranthene	9.1 U	27.5	72.7	38 *	33.6	72.7	46	41-127	19	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/09/21
		Date Analyzed:	06/14/21
		Date Extracted:	06/11/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-060821SG-001	**Units:**	ug/L
Lab Code:	R2105719-001	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106638-04			RQ2106638-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	9.1 U	29.5	72.7	41 *	34.4	72.7	47 *	50-143	14	30
Benzo(k)fluoranthene	9.1 U	29.8	72.7	41 *	37.1	72.7	51	46-139	22	30
Benzoic Acid	45 U	40.5 J	109	37	40.4 J	109	37	10-94	<1	30
Benzyl Alcohol	9.1 U	40.2	72.7	55	44.8	72.7	62	31-109	12	30
2,2'-Oxybis(1-chloropropane)	9.1 U	36.9	72.7	51	41.9	72.7	58	21-126	13	30
Bis(2-chloroethoxy)methane	9.1 U	45.8	72.7	63	51.3	72.7	71	41-118	12	30
Bis(2-chloroethyl) Ether	9.1 U	32.8	72.7	45	37.1	72.7	51	33-108	13	30
Bis(2-ethylhexyl) Phthalate	9.1 U	33.7	72.7	46	41.1	72.7	57	41-132	21	30
Butyl Benzyl Phthalate	9.1 U	39.2	72.7	54	46.6	72.7	64	41-148	17	30
Chrysene	9.1 U	32.1	72.7	44 *	38.8	72.7	53	47-126	19	30
Di-n-butyl Phthalate	9.1 U	55.6	72.7	76	63.3	72.7	87	43-130	13	30
Di-n-octyl Phthalate	9.1 U	35.0	72.7	48	44.3	72.7	61	40-139	24	30
Dibenz(a,h)anthracene	9.1 U	26.5	72.7	36 *	32.4	72.7	45	43-136	22	30
Dibenzofuran	9.1 U	40.5	72.7	56	45.4	72.7	62	46-119	10	30
Diethyl Phthalate	9.1 U	40.1	72.7	55	44.4	72.7	61	36-122	10	30
Dimethyl Phthalate	9.1 U	46.3	72.7	64	50.9	72.7	70	33-123	9	30
Fluoranthene	9.1 U	46.2	72.7	63	52.5	72.7	72	43-135	13	30
Fluorene	9.1 U	44.4	72.7	61	48.5	72.7	67	43-113	9	30
Hexachlorobenzene	9.1 U	43.7	72.7	60	49.6	72.7	68	42-125	13	30
Hexachlorobutadiene	9.1 U	28.7	72.7	39	32.6	72.7	45	10-111	14	30
Hexachlorocyclopentadiene	9.1 U	16.9	72.7	23	19.1	72.7	26	10-103	12	30
Hexachloroethane	9.1 U	25.8	72.7	35	29.1	72.7	40	12-101	13	30
Indeno(1,2,3-cd)pyrene	9.1 U	27.0	72.7	37 *	32.6	72.7	45 *	49-140	20	30
Isophorone	9.1 U	40.6	72.7	56	46.3	72.7	64	40-111	13	30
N-Nitrosodi-n-propylamine	9.1 U	36.1	72.7	50	40.6	72.7	56	35-108	11	30
N-Nitrosodiphenylamine	9.1 U	46.3	72.7	64	49.2	72.7	68	43-127	6	30
Naphthalene	9.1 U	31.7	72.7	44	35.9	72.7	49	37-108	11	30
Nitrobenzene	9.1 U	34.7	72.7	48	38.3	72.7	53	35-112	10	30
Pentachlorophenol (PCP)	45 U	64.2	72.7	88	69.1	72.7	95	29-164	8	30
Phenanthrene	9.1 U	41.6	72.7	57	46.6	72.7	64	46-123	12	30
Phenol	9.1 U	16.8	72.7	23	18.5	72.7	25	10-113	8	30
Pyrene	9.1 U	38.2	72.7	53	44.3	72.7	61	44-129	14	30

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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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106638-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
2,4-Dinitrophenol	50 U	50	20	1	06/14/21 20:23	6/11/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/14/21 20:23	6/11/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
2-Chlorophenol	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
2-Methylphenol	10 U	10	1.0	1	06/14/21 20:23	6/11/21	
2-Nitroaniline	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
2-Nitrophenol	10 U	10	1.5	1	06/14/21 20:23	6/11/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
3-Nitroaniline	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/14/21 20:23	6/11/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/14/21 20:23	6/11/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
4-Chloroaniline	10 U	10	1.0	1	06/14/21 20:23	6/11/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/14/21 20:23	6/11/21	
4-Nitroaniline	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
4-Nitrophenol	50 U	50	6.4	1	06/14/21 20:23	6/11/21	
Acenaphthene	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
Acenaphthylene	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
Anthracene	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
Benz(a)anthracene	10 U	10	1.6	1	06/14/21 20:23	6/11/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/14/21 20:23	6/11/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
Benzoic Acid	50 U	50	36	1	06/14/21 20:23	6/11/21	
Benzyl Alcohol	10 U	10	1.6	1	06/14/21 20:23	6/11/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/14/21 20:23	6/11/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/14/21 20:23	6/11/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
Chrysene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106638-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	1.7	1	06/14/21 20:23	6/11/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/14/21 20:23	6/11/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
Dibenzofuran	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
Diethyl Phthalate	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
Fluoranthene	10 U	10	1.5	1	06/14/21 20:23	6/11/21	
Fluorene	10 U	10	1.3	1	06/14/21 20:23	6/11/21	
Hexachlorobenzene	10 U	10	1.6	1	06/14/21 20:23	6/11/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/14/21 20:23	6/11/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/14/21 20:23	6/11/21	
Hexachloroethane	10 U	10	1.1	1	06/14/21 20:23	6/11/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/14/21 20:23	6/11/21	
Isophorone	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/14/21 20:23	6/11/21	
Naphthalene	10 U	10	1.2	1	06/14/21 20:23	6/11/21	
Nitrobenzene	10 U	10	1.5	1	06/14/21 20:23	6/11/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/14/21 20:23	6/11/21	
Phenanthrene	10 U	10	1.4	1	06/14/21 20:23	6/11/21	
Phenol	10 U	10	1.0	1	06/14/21 20:23	6/11/21	
Pyrene	10 U	10	1.5	1	06/14/21 20:23	6/11/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	65	35 - 141	06/14/21 20:23	
2-Fluorobiphenyl	39	31 - 118	06/14/21 20:23	
2-Fluorophenol	36	10 - 105	06/14/21 20:23	
Nitrobenzene-d5	45	31 - 110	06/14/21 20:23	
Phenol-d6	23	10 - 107	06/14/21 20:23	
p-Terphenyl-d14	69	10 - 165	06/14/21 20:23	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	16.34	6.0	J
	unknown	16.51	8.0	J
000142-82-5	Heptane	2.52	33	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106847-03	**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	06/17/21 15:18	6/16/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2,4-Dinitrophenol	50 U	50	20	1	06/17/21 15:18	6/16/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/17/21 15:18	6/16/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2-Chlorophenol	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
2-Methylphenol	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
2-Nitroaniline	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2-Nitrophenol	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
3-Nitroaniline	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/17/21 15:18	6/16/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/17/21 15:18	6/16/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
4-Chloroaniline	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
4-Nitroaniline	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
4-Nitrophenol	50 U	50	6.4	1	06/17/21 15:18	6/16/21	
Acenaphthene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Acenaphthylene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Anthracene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Benz(a)anthracene	10 U	10	1.6	1	06/17/21 15:18	6/16/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Benzoic Acid	50 U	50	36	1	06/17/21 15:18	6/16/21	
Benzyl Alcohol	10 U	10	1.6	1	06/17/21 15:18	6/16/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/17/21 15:18	6/16/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/17/21 15:18	6/16/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Chrysene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106847-03	**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	1.7	1	06/17/21 15:18	6/16/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/17/21 15:18	6/16/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
Dibenzofuran	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Diethyl Phthalate	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Fluoranthene	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
Fluorene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Hexachlorobenzene	10 U	10	1.6	1	06/17/21 15:18	6/16/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/17/21 15:18	6/16/21	
Hexachloroethane	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/17/21 15:18	6/16/21	
Isophorone	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/17/21 15:18	6/16/21	
Naphthalene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
Nitrobenzene	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/17/21 15:18	6/16/21	
Phenanthrene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Phenol	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
Pyrene	10 U	10	1.5	1	06/17/21 15:18	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	06/17/21 15:18	
2-Fluorobiphenyl	37	31 - 118	06/17/21 15:18	
2-Fluorophenol	31	10 - 105	06/17/21 15:18	
Nitrobenzene-d5	39	31 - 110	06/17/21 15:18	
Phenol-d6	22	10 - 107	06/17/21 15:18	
p-Terphenyl-d14	68	10 - 165	06/17/21 15:18	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106892-01	**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	06/21/21 13:47	6/17/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2,4-Dinitrophenol	50 U	50	20	1	06/21/21 13:47	6/17/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/21/21 13:47	6/17/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2-Chlorophenol	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
2-Methylphenol	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
2-Nitroaniline	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2-Nitrophenol	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
3-Nitroaniline	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/21/21 13:47	6/17/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/21/21 13:47	6/17/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
4-Chloroaniline	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
4-Nitroaniline	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
4-Nitrophenol	50 U	50	6.4	1	06/21/21 13:47	6/17/21	
Acenaphthene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Acenaphthylene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Anthracene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Benz(a)anthracene	10 U	10	1.6	1	06/21/21 13:47	6/17/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Benzoic Acid	50 U	50	36	1	06/21/21 13:47	6/17/21	
Benzyl Alcohol	10 U	10	1.6	1	06/21/21 13:47	6/17/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/21/21 13:47	6/17/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/21/21 13:47	6/17/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Chrysene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106892-01	**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	1.7	1	06/21/21 13:47	6/17/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/21/21 13:47	6/17/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
Dibenzofuran	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Diethyl Phthalate	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Fluoranthene	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
Fluorene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Hexachlorobenzene	10 U	10	1.6	1	06/21/21 13:47	6/17/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/21/21 13:47	6/17/21	
Hexachloroethane	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/21/21 13:47	6/17/21	
Isophorone	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/21/21 13:47	6/17/21	
Naphthalene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
Nitrobenzene	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/21/21 13:47	6/17/21	
Phenanthrene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Phenol	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
Pyrene	10 U	10	1.5	1	06/21/21 13:47	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	35 - 141	06/21/21 13:47	
2-Fluorobiphenyl	36	31 - 118	06/21/21 13:47	
2-Fluorophenol	38	10 - 105	06/21/21 13:47	
Nitrobenzene-d5	49	31 - 110	06/21/21 13:47	
Phenol-d6	25	10 - 107	06/21/21 13:47	
p-Terphenyl-d14	70	10 - 165	06/21/21 13:47	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	13.98	5.0	J

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/14/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106638-02			RQ2106638-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	32.7	80.0	41	34.2	80.0	43	10-127	5	30
1,2-Dichlorobenzene	8270D	31.1	80.0	39	32.4	80.0	41	23-130	5	30
1,3-Dichlorobenzene	8270D	29.5	80.0	37	31.2	80.0	39	21-90	5	30
1,4-Dichlorobenzene	8270D	30.5	80.0	38	31.0	80.0	39	10-124	3	30
2,4,5-Trichlorophenol	8270D	51.2	80.0	64	54.4	80.0	68	48-134	6	30
2,4,6-Trichlorophenol	8270D	44.9	80.0	56	48.5	80.0	61	44-135	9	30
2,4-Dichlorophenol	8270D	38.7	80.0	48	42.1	80.0	53	48-127	10	30
2,4-Dimethylphenol	8270D	39.6	80.0	50	42.7	80.0	53	35-99	6	30
2,4-Dinitrophenol	8270D	57.4	80.0	72	61.6	80.0	77	21-154	7	30
2,4-Dinitrotoluene	8270D	52.7	80.0	66	54.7	80.0	68	54-130	3	30
2,6-Dinitrotoluene	8270D	56.9	80.0	71	59.7	80.0	75	51-127	5	30
2-Chloronaphthalene	8270D	39.7	80.0	50	44.1	80.0	55	40-108	10	30
2-Chlorophenol	8270D	36.3	80.0	45	36.7	80.0	46	42-112	2	30
2-Methylnaphthalene	8270D	39.3	80.0	49	43.7	80.0	55	34-102	12	30
2-Methylphenol	8270D	40.9	80.0	51	43.8	80.0	55	47-100	8	30
2-Nitroaniline	8270D	52.4	80.0	66	55.7	80.0	70	52-133	6	30
2-Nitrophenol	8270D	38.2	80.0	48	41.7	80.0	52	43-131	8	30
3,3'-Dichlorobenzidine	8270D	51.0	80.0	64	52.7	80.0	66	43-126	3	30
3- and 4-Methylphenol Coelution	8270D	40.7	80.0	51	43.0	80.0	54	40-92	6	30
3-Nitroaniline	8270D	45.3	80.0	57	48.1	80.0	60	42-111	5	30
4,6-Dinitro-2-methylphenol	8270D	52.9	80.0	66	55.5	80.0	69	36-152	4	30
4-Bromophenyl Phenyl Ether	8270D	57.2	80.0	72	58.3	80.0	73	48-114	1	30
4-Chloro-3-methylphenol	8270D	46.2	80.0	58	49.2	80.0	62	52-113	7	30
4-Chloroaniline	8270D	43.1	80.0	54	46.2	80.0	58	44-109	7	30
4-Chlorophenyl Phenyl Ether	8270D	51.8	80.0	65	54.4	80.0	68	51-107	5	30
4-Nitroaniline	8270D	45.1	80.0	56	48.3	80.0	60	54-133	7	30
4-Nitrophenol	8270D	31.9 J	80.0	40	33.7 J	80.0	42	10-126	5	30
Acenaphthene	8270D	44.2	80.0	55	48.0	80.0	60	52-107	9	30
Acenaphthylene	8270D	47.1	80.0	59	50.9	80.0	64	55-109	8	30
Anthracene	8270D	51.5	80.0	64	53.1	80.0	66	55-116	3	30
Benz(a)anthracene	8270D	50.0	80.0	62	51.9	80.0	65	61-121	5	30
Benzo(a)pyrene	8270D	56.2	80.0	70	57.9	80.0	72	44-114	3	30
Benzo(b)fluoranthene	8270D	50.4	80.0	63	52.5	80.0	66	62-115	5	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/14/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106638-02			RQ2106638-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	50.0	80.0	62 *	51.5	80.0	64	63-136	3	30
Benzo(k)fluoranthene	8270D	53.2	80.0	67	55.2	80.0	69	49-133	3	30
Benzoic Acid	8270D	40.0 J	120	33	43.8 J	120	36	10-94	9	30
Benzyl Alcohol	8270D	49.3	80.0	62	52.5	80.0	66	31-109	6	30
2,2'-Oxybis(1-chloropropane)	8270D	45.0	80.0	56	48.1	80.0	60	32-122	7	30
Bis(2-chloroethoxy)methane	8270D	53.3	80.0	67	58.9	80.0	74	55-110	10	30
Bis(2-chloroethyl) Ether	8270D	40.0	80.0	50	42.7	80.0	53	46-102	6	30
Bis(2-ethylhexyl) Phthalate	8270D	58.2	80.0	73	61.0	80.0	76	51-132	4	30
Butyl Benzyl Phthalate	8270D	53.4	80.0	67	55.3	80.0	69	41-148	3	30
Chrysene	8270D	52.3	80.0	65	53.0	80.0	66	57-118	2	30
Di-n-butyl Phthalate	8270D	70.1	80.0	88	72.9	80.0	91	57-128	3	30
Di-n-octyl Phthalate	8270D	65.4	80.0	82	67.3	80.0	84	62-124	2	30
Dibenz(a,h)anthracene	8270D	48.5	80.0	61	49.8	80.0	62	54-135	2	30
Dibenzofuran	8270D	47.3	80.0	59	50.2	80.0	63	55-110	7	30
Diethyl Phthalate	8270D	47.4	80.0	59	50.0	80.0	62	53-113	5	30
Dimethyl Phthalate	8270D	53.8	80.0	67	56.4	80.0	71	51-112	6	30
Fluoranthene	8270D	59.2	80.0	74	62.2	80.0	78	66-127	5	30
Fluorene	8270D	50.2	80.0	63	53.7	80.0	67	54-106	6	30
Hexachlorobenzene	8270D	56.7	80.0	71	57.8	80.0	72	53-123	1	30
Hexachlorobutadiene	8270D	33.4	80.0	42	36.9	80.0	46	16-95	9	30
Hexachlorocyclopentadiene	8270D	20.6	80.0	26	23.8	80.0	30	10-99	14	30
Hexachloroethane	8270D	29.4	80.0	37	32.2	80.0	40	15-92	8	30
Indeno(1,2,3-cd)pyrene	8270D	49.3	80.0	62	50.5	80.0	63	62-137	2	30
Isophorone	8270D	46.7	80.0	58	52.5	80.0	66	50-116	13	30
N-Nitrosodi-n-propylamine	8270D	43.5	80.0	54	48.0	80.0	60	49-115	11	30
N-Nitrosodiphenylamine	8270D	52.1	80.0	65	54.1	80.0	68	45-123	5	30
Naphthalene	8270D	36.3	80.0	45	39.6	80.0	49	38-99	9	30
Nitrobenzene	8270D	39.0	80.0	49	43.2	80.0	54	46-108	10	30
Pentachlorophenol (PCP)	8270D	71.5	80.0	89	74.4	80.0	93	29-164	4	30
Phenanthrene	8270D	49.3	80.0	62	52.8	80.0	66	58-118	6	30
Phenol	8270D	21.9	80.0	27	23.5	80.0	29	10-113	7	30
Pyrene	8270D	50.3	80.0	63	52.2	80.0	65	61-122	3	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106847-04			RQ2106847-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	41.7	80.0	52	41.7	80.0	52	10-127	<1	30
1,2-Dichlorobenzene	8270D	40.5	80.0	51	37.4	80.0	47	23-130	8	30
1,3-Dichlorobenzene	8270D	37.7	80.0	47	36.3	80.0	45	21-90	4	30
1,4-Dichlorobenzene	8270D	38.1	80.0	48	36.6	80.0	46	10-124	4	30
2,4,5-Trichlorophenol	8270D	69.2	80.0	87	71.9	80.0	90	48-134	3	30
2,4,6-Trichlorophenol	8270D	59.6	80.0	74	63.1	80.0	79	44-135	7	30
2,4-Dichlorophenol	8270D	51.0	80.0	64	51.8	80.0	65	48-127	2	30
2,4-Dimethylphenol	8270D	51.7	80.0	65	53.7	80.0	67	35-99	3	30
2,4-Dinitrophenol	8270D	64.1	80.0	80	61.3	80.0	77	21-154	4	30
2,4-Dinitrotoluene	8270D	75.0	80.0	94	74.2	80.0	93	54-130	1	30
2,6-Dinitrotoluene	8270D	81.3	80.0	102	82.5	80.0	103	51-127	<1	30
2-Chloronaphthalene	8270D	51.1	80.0	64	55.3	80.0	69	40-108	8	30
2-Chlorophenol	8270D	45.4	80.0	57	43.8	80.0	55	42-112	4	30
2-Methylnaphthalene	8270D	49.1	80.0	61	53.6	80.0	67	34-102	9	30
2-Methylphenol	8270D	52.4	80.0	66	52.9	80.0	66	47-100	<1	30
2-Nitroaniline	8270D	76.6	80.0	96	78.8	80.0	99	52-133	3	30
2-Nitrophenol	8270D	47.6	80.0	59	49.9	80.0	62	43-131	5	30
3,3'-Dichlorobenzidine	8270D	75.7	80.0	95	76.0	80.0	95	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	51.4	80.0	64	53.8	80.0	67	40-92	5	30
3-Nitroaniline	8270D	65.1	80.0	81	65.1	80.0	81	42-111	<1	30
4,6-Dinitro-2-methylphenol	8270D	68.0	80.0	85	69.2	80.0	87	36-152	2	30
4-Bromophenyl Phenyl Ether	8270D	77.3	80.0	97	77.6	80.0	97	48-114	<1	30
4-Chloro-3-methylphenol	8270D	61.2	80.0	76	63.9	80.0	80	52-113	5	30
4-Chloroaniline	8270D	60.0	80.0	75	57.7	80.0	72	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	68.8	80.0	86	71.9	80.0	90	51-107	5	30
4-Nitroaniline	8270D	67.2	80.0	84	65.7	80.0	82	54-133	2	30
4-Nitrophenol	8270D	42.1 J	80.0	53	41.7 J	80.0	52	10-126	2	30
Acenaphthene	8270D	59.2	80.0	74	62.7	80.0	78	52-107	5	30
Acenaphthylene	8270D	62.8	80.0	79	65.8	80.0	82	55-109	4	30
Anthracene	8270D	74.9	80.0	94	73.4	80.0	92	55-116	2	30
Benz(a)anthracene	8270D	72.8	80.0	91	68.9	80.0	86	61-121	6	30
Benzo(a)pyrene	8270D	82.2	80.0	103	75.9	80.0	95	44-114	8	30
Benzo(b)fluoranthene	8270D	74.4	80.0	93	67.9	80.0	85	62-115	9	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106847-04			RQ2106847-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	78.3	80.0	98	72.6	80.0	91	63-136	7	30
Benzo(k)fluoranthene	8270D	77.8	80.0	97	74.0	80.0	93	49-133	4	30
Benzoic Acid	8270D	56.3	120	47	64.5	120	54	10-94	14	30
Benzyl Alcohol	8270D	63.3	80.0	79	64.0	80.0	80	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	60.7	80.0	76	60.6	80.0	76	32-122	<1	30
Bis(2-chloroethoxy)methane	8270D	69.7	80.0	87	72.6	80.0	91	55-110	4	30
Bis(2-chloroethyl) Ether	8270D	53.3	80.0	67	51.1	80.0	64	46-102	5	30
Bis(2-ethylhexyl) Phthalate	8270D	86.6	80.0	108	76.3	80.0	95	51-132	13	30
Butyl Benzyl Phthalate	8270D	81.1	80.0	101	77.2	80.0	96	41-148	5	30
Chrysene	8270D	75.9	80.0	95	72.1	80.0	90	57-118	5	30
Di-n-butyl Phthalate	8270D	104	80.0	130 *	99.9	80.0	125	57-128	4	30
Di-n-octyl Phthalate	8270D	95.1	80.0	119	85.9	80.0	107	62-124	11	30
Dibenz(a,h)anthracene	8270D	76.7	80.0	96	68.9	80.0	86	54-135	11	30
Dibenzofuran	8270D	62.1	80.0	78	66.9	80.0	84	55-110	7	30
Diethyl Phthalate	8270D	68.2	80.0	85	67.1	80.0	84	53-113	1	30
Dimethyl Phthalate	8270D	74.3	80.0	93	76.2	80.0	95	51-112	2	30
Fluoranthene	8270D	85.5	80.0	107	84.5	80.0	106	66-127	<1	30
Fluorene	8270D	68.7	80.0	86	71.5	80.0	89	54-106	3	30
Hexachlorobenzene	8270D	77.0	80.0	96	77.5	80.0	97	53-123	1	30
Hexachlorobutadiene	8270D	41.7	80.0	52	42.5	80.0	53	16-95	2	30
Hexachlorocyclopentadiene	8270D	26.5	80.0	33	30.5	80.0	38	10-99	14	30
Hexachloroethane	8270D	39.4	80.0	49	37.2	80.0	47	15-92	4	30
Indeno(1,2,3-cd)pyrene	8270D	77.0	80.0	96	70.1	80.0	88	62-137	9	30
Isophorone	8270D	63.6	80.0	80	66.6	80.0	83	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	55.2	80.0	69	59.6	80.0	75	49-115	8	30
N-Nitrosodiphenylamine	8270D	74.0	80.0	92	77.7	80.0	97	45-123	5	30
Naphthalene	8270D	47.0	80.0	59	47.6	80.0	60	38-99	2	30
Nitrobenzene	8270D	53.0	80.0	66	52.7	80.0	66	46-108	<1	30
Pentachlorophenol (PCP)	8270D	90.8	80.0	114	91.5	80.0	114	29-164	<1	30
Phenanthrene	8270D	71.5	80.0	89	72.4	80.0	91	58-118	2	30
Phenol	8270D	27.3	80.0	34	27.7	80.0	35	10-113	3	30
Pyrene	8270D	73.0	80.0	91	70.2	80.0	88	61-122	3	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/21/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106892-02			RQ2106892-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	38.5	80.0	48	40.1	80.0	50	10-127	4	30
1,2-Dichlorobenzene	8270D	40.9	80.0	51	41.2	80.0	51	23-130	<1	30
1,3-Dichlorobenzene	8270D	38.4	80.0	48	38.9	80.0	49	21-90	2	30
1,4-Dichlorobenzene	8270D	40.0	80.0	50	39.1	80.0	49	10-124	2	30
2,4,5-Trichlorophenol	8270D	65.4	80.0	82	66.8	80.0	83	48-134	1	30
2,4,6-Trichlorophenol	8270D	57.2	80.0	71	58.9	80.0	74	44-135	4	30
2,4-Dichlorophenol	8270D	52.9	80.0	66	51.4	80.0	64	48-127	3	30
2,4-Dimethylphenol	8270D	54.7	80.0	68	53.9	80.0	67	35-99	1	30
2,4-Dinitrophenol	8270D	57.7	80.0	72	65.4	80.0	82	21-154	13	30
2,4-Dinitrotoluene	8270D	67.3	80.0	84	71.1	80.0	89	54-130	6	30
2,6-Dinitrotoluene	8270D	74.5	80.0	93	74.7	80.0	93	51-127	<1	30
2-Chloronaphthalene	8270D	47.0	80.0	59	45.6	80.0	57	40-108	3	30
2-Chlorophenol	8270D	48.1	80.0	60	48.9	80.0	61	42-112	2	30
2-Methylnaphthalene	8270D	45.2	80.0	57	44.6	80.0	56	34-102	2	30
2-Methylphenol	8270D	57.8	80.0	72	58.5	80.0	73	47-100	1	30
2-Nitroaniline	8270D	69.6	80.0	87	72.8	80.0	91	52-133	4	30
2-Nitrophenol	8270D	48.0	80.0	60	44.8	80.0	56	43-131	7	30
3,3'-Dichlorobenzidine	8270D	63.5	80.0	79	63.0	80.0	79	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	56.2	80.0	70	56.5	80.0	71	40-92	1	30
3-Nitroaniline	8270D	61.5	80.0	77	63.1	80.0	79	42-111	3	30
4,6-Dinitro-2-methylphenol	8270D	66.7	80.0	83	70.5	80.0	88	36-152	6	30
4-Bromophenyl Phenyl Ether	8270D	65.3	80.0	82	71.1	80.0	89	48-114	8	30
4-Chloro-3-methylphenol	8270D	59.9	80.0	75	61.9	80.0	77	52-113	3	30
4-Chloroaniline	8270D	59.8	80.0	75	62.4	80.0	78	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	58.2	80.0	73	59.8	80.0	75	51-107	3	30
4-Nitroaniline	8270D	60.5	80.0	76	63.6	80.0	79	54-133	4	30
4-Nitrophenol	8270D	38.7 J	80.0	48	40.3 J	80.0	50	10-126	4	30
Acenaphthene	8270D	52.1	80.0	65	51.4	80.0	64	52-107	2	30
Acenaphthylene	8270D	56.9	80.0	71	54.9	80.0	69	55-109	3	30
Anthracene	8270D	61.9	80.0	77	65.7	80.0	82	55-116	6	30
Benz(a)anthracene	8270D	66.5	80.0	83	70.3	80.0	88	61-121	6	30
Benzo(a)pyrene	8270D	66.6	80.0	83	70.3	80.0	88	44-114	6	30
Benzo(b)fluoranthene	8270D	67.8	80.0	85	70.6	80.0	88	62-115	3	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/21/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106892-02			RQ2106892-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	71.8	80.0	90	75.9	80.0	95	63-136	5	30
Benzo(k)fluoranthene	8270D	74.3	80.0	93	77.3	80.0	97	49-133	4	30
Benzoic Acid	8270D	60.5	120	50	67.9	120	57	10-94	13	30
Benzyl Alcohol	8270D	64.0	80.0	80	65.2	80.0	81	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	58.3	80.0	73	59.6	80.0	75	32-122	3	30
Bis(2-chloroethoxy)methane	8270D	70.2	80.0	88	64.8	80.0	81	55-110	8	30
Bis(2-chloroethyl) Ether	8270D	55.6	80.0	69	55.2	80.0	69	46-102	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	80.3	80.0	100	83.6	80.0	104	51-132	4	30
Butyl Benzyl Phthalate	8270D	77.3	80.0	97	79.8	80.0	100	41-148	3	30
Chrysene	8270D	71.2	80.0	89	73.9	80.0	92	57-118	3	30
Di-n-butyl Phthalate	8270D	94.3	80.0	118	99.6	80.0	124	57-128	5	30
Di-n-octyl Phthalate	8270D	87.1	80.0	109	90.7	80.0	113	62-124	4	30
Dibenz(a,h)anthracene	8270D	73.1	80.0	91	76.8	80.0	96	54-135	5	30
Dibenzofuran	8270D	54.8	80.0	68	54.8	80.0	69	55-110	1	30
Diethyl Phthalate	8270D	63.9	80.0	80	67.3	80.0	84	53-113	5	30
Dimethyl Phthalate	8270D	70.8	80.0	89	74.1	80.0	93	51-112	4	30
Fluoranthene	8270D	79.1	80.0	99	82.7	80.0	103	66-127	4	30
Fluorene	8270D	60.0	80.0	75	60.1	80.0	75	54-106	<1	30
Hexachlorobenzene	8270D	72.2	80.0	90	75.4	80.0	94	53-123	4	30
Hexachlorobutadiene	8270D	38.5	80.0	48	39.4	80.0	49	16-95	2	30
Hexachlorocyclopentadiene	8270D	10.5	80.0	13	11.5	80.0	14	10-99	7	30
Hexachloroethane	8270D	38.8	80.0	49	37.9	80.0	47	15-92	4	30
Indeno(1,2,3-cd)pyrene	8270D	68.0	80.0	85	73.2	80.0	92	62-137	8	30
Isophorone	8270D	63.7	80.0	80	63.7	80.0	80	50-116	<1	30
N-Nitrosodi-n-propylamine	8270D	58.7	80.0	73	56.2	80.0	70	49-115	4	30
N-Nitrosodiphenylamine	8270D	65.6	80.0	82	67.5	80.0	84	45-123	2	30
Naphthalene	8270D	43.7	80.0	55	44.5	80.0	56	38-99	2	30
Nitrobenzene	8270D	50.3	80.0	63	50.7	80.0	63	46-108	<1	30
Pentachlorophenol (PCP)	8270D	75.7	80.0	95	81.0	80.0	101	29-164	6	30
Phenanthrene	8270D	63.0	80.0	79	66.9	80.0	84	58-118	6	30
Phenol	8270D	31.7	80.0	40	32.4	80.0	40	10-113	<1	30
Pyrene	8270D	66.7	80.0	83	70.6	80.0	88	61-122	6	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2105719

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-060821SG-001	R2105719-001	47	46
WG-9954-060821SG-002	R2105719-002	40	40
WG-9954-060821SG-003	R2105719-003	12	49
WG-9954-060821SG-004	R2105719-005	18	39
WG-9954-060821SG-005	R2105719-006	17	45
WG-9954-060821SG-006	R2105719-007	24	48
Method Blank	RQ2106691-01	64	56
Lab Control Sample	RQ2106691-02	57	50
Duplicate Lab Control Sample	RQ2106691-03	60	52

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106691-01	**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	06/16/21 13:18	6/14/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Aldrin	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Dieldrin	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endrin	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Heptachlor	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 13:18	6/14/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
beta-BHC	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
delta-BHC	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 164	06/16/21 13:18	
Tetrachloro-m-xylene	56	10 - 147	06/16/21 13:18	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106691-02			RQ2106691-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.279	0.400	70	0.272	0.400	68	42-159	3	30
4,4'-DDE	8081B	0.274	0.400	69	0.276	0.400	69	47-147	<1	30
4,4'-DDT	8081B	0.302	0.400	75	0.304	0.400	76	41-149	<1	30
Aldrin	8081B	0.212	0.400	53	0.223	0.400	56	22-137	5	30
Dieldrin	8081B	0.290	0.400	73	0.291	0.400	73	52-144	<1	30
Endosulfan I	8081B	0.284	0.400	71	0.285	0.400	71	52-136	<1	30
Endosulfan II	8081B	0.293	0.400	73	0.294	0.400	73	57-138	<1	30
Endosulfan Sulfate	8081B	0.291	0.400	73	0.291	0.400	73	34-156	<1	30
Endrin	8081B	0.307	0.400	77	0.309	0.400	77	56-143	<1	30
Endrin Ketone	8081B	0.306	0.400	76	0.305	0.400	76	59-143	<1	30
Heptachlor	8081B	0.243	0.400	61	0.259	0.400	65	32-141	6	30
Heptachlor Epoxide	8081B	0.290	0.400	72	0.292	0.400	73	51-143	<1	30
Methoxychlor	8081B	0.325	0.400	81	0.310	0.400	78	56-149	5	30
alpha-BHC	8081B	0.266	0.400	67	0.261	0.400	65	36-151	2	30
alpha-Chlordane	8081B	0.279	0.400	70	0.282	0.400	70	50-139	<1	30
beta-BHC	8081B	0.291	0.400	73	0.286	0.400	72	55-149	2	30
delta-BHC	8081B	0.279	0.400	70	0.278	0.400	69	29-159	<1	30
gamma-BHC (Lindane)	8081B	0.277	0.400	69	0.273	0.400	68	41-149	1	30
gamma-Chlordane	8081B	0.273	0.400	68	0.273	0.400	68	50-140	<1	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-060821SG-001	R2105719-001	50	48
WG-9954-060821SG-002	R2105719-002	40	37
WG-9954-060821SG-003	R2105719-003	12	51
WG-9954-060821SG-004	R2105719-005	18	42
WG-9954-060821SG-005	R2105719-006	17	49
WG-9954-060821SG-006	R2105719-007	25	49
Method Blank	RQ2106691-01	59	53
Lab Control Sample	RQ2106691-02	53	43
Duplicate Lab Control Sample	RQ2106691-03	58	45

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105719
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106691-01	**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	06/17/21 10:28	6/14/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/17/21 10:28	6/14/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 152	06/17/21 10:28	
Tetrachloro-m-xylene	53	14 - 129	06/17/21 10:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105719
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample RQ2106691-02			Duplicate Lab Control Sample RQ2106691-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.17	4.00	54	2.46	4.00	61	49-123	12	30
Aroclor 1260	8082A	2.58	4.00	64	2.87	4.00	72	30-120	11	30

June 30, 2021 Service Request No:R2105782

Ms. Kathy Willy
GHD
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 10, 2021
For your reference, these analyses have been assigned our service request number **R2105782.**

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) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/10/2021
Sample Matrix: Water

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:

Eleven water samples were received for analysis at ALS Environmental on 06/10/2021. 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, 06/17/2021: 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, 06/17/2021: 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.

Semivoa GC:

Method 8081B: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The elevated recovery equates to a high bias. Since there are target analytes detected over the Method Reporting Limit (MRL), the sample is scheduled for re-extraction past recommended holding time.
Method 8081B, 06/17/2021: 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, 729191s: 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:The extraction of one or more sample(s) was initially performed within holding time, but were re-extracted due to a QC failure. Efforts were made to re-extract the samples as soon as possible. The re-extraction was performed past the recommended holding time. The data are flagged to indicate the holding time exceedance.

Method 8082A, 06/18/2021: 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, 06/18/2021: 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 8082A, 06/17/2021: 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.

Approved by  Date 06/30/2021

Volatiles by GC/MS:

Method 8260C, 06/19/2021: 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, 06/21/2021: 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, 06/21/2021: 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 06/30/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-060921-SG-015			Lab ID: R2105782-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Benzene	6800		40	1000	ug/L	8260C
Bromodichloromethane	75	J	40	1000	ug/L	8260C
Chlorobenzene	2500		40	1000	ug/L	8260C
Chloroform	420	J	48	1000	ug/L	8260C
Toluene	25000		40	1000	ug/L	8260C
Trichloroethene (TCE)	120	J	40	1000	ug/L	8260C
1,2,4-Trichlorobenzene	51	J	12	91	ug/L	8270D
1,2-Dichlorobenzene	29	J	12	91	ug/L	8270D
1,4-Dichlorobenzene	82	J	12	91	ug/L	8270D
2,4,5-Trichlorophenol	23	J	11	91	ug/L	8270D
2,4-Dichlorophenol	140		13	91	ug/L	8270D
2-Chlorophenol	18	J	11	91	ug/L	8270D
2-Methylphenol	28	J	10	91	ug/L	8270D
3- and 4-Methylphenol Coelution	74	J	12	91	ug/L	8270D
4-Chloro-3-methylphenol	20	J	11	91	ug/L	8270D
Benzoic Acid	3600		360	450	ug/L	8270D
Benzyl Alcohol	260		16	91	ug/L	8270D
Bis(2-chloroethyl) Ether	18	J	13	91	ug/L	8270D
Phenol	40	J	10	91	ug/L	8270D
alpha-BHC	16		0.10	0.23	ug/L	8081B
delta-BHC	6.3		0.10	0.23	ug/L	8081B
gamma-BHC (Lindane)	2.2		0.10	0.23	ug/L	8081B
Aldrin	0.53		0.10	0.23	ug/L	8081B
beta-BHC	4.7		0.10	0.23	ug/L	8081B
Aldrin	0.80		0.20	0.45	ug/L	8081B
alpha-BHC	21		0.20	0.45	ug/L	8081B
beta-BHC	6.6		0.20	0.45	ug/L	8081B
delta-BHC	8.8		0.20	0.45	ug/L	8081B
gamma-BHC (Lindane)	4.0		0.20	0.45	ug/L	8081B

CLIENT ID: RB-9954-060921-SG-001			Lab ID: R2105782-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
delta-BHC	0.038	J	0.020	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) **Service Request:**R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2105782-001	WG-9954-060921-SG-007	6/9/2021	1400
R2105782-002	TB-9952-060921-SG-002	6/9/2021	0900
R2105782-003	WG-9954-060921-SG-008	6/9/2021	0945
R2105782-004	WG-9954-060921-SG-009	6/9/2021	1015
R2105782-005	WG-9954-060921-SG-010	6/9/2021	1100
R2105782-006	WG-9954-060921-SG-011	6/9/2021	1100
R2105782-007	WG-9954-060921-SG-012	6/9/2021	1145
R2105782-008	WG-9954-060921-SG-013	6/9/2021	1225
R2105782-009	WG-9954-060921-SG-014	6/9/2021	1305
R2105782-010	WG-9954-060921-SG-015	6/9/2021	1345
R2105782-011	RB-9954-060921-SG-001	6/9/2021	1430

CHAIN OF CUSTODY RECORD

COC Number:

ADDRESS: 2055 NIAGARA FALLS BLVD N FALLS PAGE 1 OF 1

PHONE: FAX:

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /D:			Total # of Containers: 179 (SE) 73

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Sample Type: Grab (G) or Comp (C)	Sample Type: Filtered (Y/N)	Analysis Requested: VOC	Analysis Requested: SVOC	Analysis Requested: PEST/PCB	Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	WG-9954-060921-SG-007	06/09/21	14:00	W	G	N	X	X	X	7		
2	TB-9954-060921-SG-002	06/09/21	9:00	W	G	N	X			3		
3	WG-9954-060921-SG-008	06/09/21	9:45	W	G	N	X	X	X	7		
4	WG-9954-060921-SG-009	06/09/21	10:15	W	G	N	X	X	X	7		
5	WG-9954-060921-SG-010	06/09/21	11:00	W	G	N	X	X	X	7		
6	WG-9954-060921-SG-011	06/09/21	11:00	W	G	N	X	X	X	7		
7	WG-9954-060921-SG-012	06/09/21	11:45	W	G	N	X	X	X	7		
8	WG-9954-060921-SG-013	06/09/21	12:25	W	G	N	X	X	X	7		
9	WG-9954-060921-SG-014	06/09/21	13:05	W	G	N	X	X	X	7		
10	WG-9954-060921-SG-015	06/09/21	13:45	W	G	N	X	X	X	7		
11	RB-9954-060921-SG-001	06/09/21	14:30	W	G	N	X	X	X	7		
12												
13												
14												
15												
16												
17												
18												

TAT Required in business days (use separate COCs fro different TATs)
(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time		Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/9/21	1510	1		ALS	6/10/21	0940
2					2				
3					3				

R2105782 5

GHD
Love Canal:292-402-D02-3100

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#_____

T030477

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
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004, 005, 006, 007, 008, 009, 010, 011, 012, 013

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

CLIENT SAMPLE ID	LABID	SAMPLING Date	Time	Matrix	NUMBER OF CONTAINERS	7D 8081B / Pest OC	8082A / PCB	8270D / SVO	14D 8260C / VOC FP	1	2	3	4	5	Remarks
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 Cilibration Summaries

_X_ 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

R2105782 5

GHD
Love Canal:292-402-D02-3100

Project/Client GHD Folder Number

Cooler received on 6/10/11 by: @

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: 6/10/21 Time: 0951 ID: IR#7 (IR#11) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.3	0.4					
Within 0-6°C?	(Y) 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-102 by e on 6/10/21 at 0956
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/11/21 Time: 1250 by: dlw

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 Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		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: 25916, 90121-dd

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: on

PC Secondary Review: _____

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

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105782-001.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1716	In Lab / KRUEST	
		6/17/2021	1745	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-001.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-001.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-001.10					
	8081B,8082A				
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105782-001.11					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105782-001.12					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	0811	In Lab / VSTAUFFER	
R2105782-001.13					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	0812	In Lab / VSTAUFFER	
R2105782-002.01					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1716	In Lab / KRUEST	

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		6/17/2021	1745	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-002.02					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-002.03					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-003.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1716	In Lab / KRUEST	
		6/17/2021	1745	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-003.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-003.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-003.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
R2105782-003.11					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	0811	In Lab / VSTAUFFER	
R2105782-003.12					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105782-003.13					
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	1329	In Lab / VSTAUFFER	
R2105782-004.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1745	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-004.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1716	In Lab / KRUEST	
R2105782-004.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-004.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
R2105782-004.11					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	0811	In Lab / VSTAUFFER	
R2105782-004.12					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-004.13					
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-005.03					

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1716	In Lab / KRUEST	
		6/17/2021	1745	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-005.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-005.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-005.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
R2105782-005.11					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-005.12					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	0811	In Lab / VSTAUFFER	
R2105782-005.13					
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/14/2021	1329	In Lab / VSTAUFFER	
		6/14/2021	1541	R-002 / VSTAUFFER	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-006.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1717	In Lab / KRUEST	
		6/17/2021	1745	R-001-S12 / KRUEST	

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-006.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-006.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-006.10					
	8081B,8082A				
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-006.11					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0808	In Lab / VSTAUFFER	
R2105782-006.12					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-006.13					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-007.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1717	In Lab / KRUEST	
		6/17/2021	1745	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-007.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105782-007.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-007.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
R2105782-007.11					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-007.12					
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-007.13					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0808	In Lab / VSTAUFFER	
R2105782-008.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1218	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-008.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-008.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-008.10					
	8081B,8082A				
		6/11/2021	1251	R-002 / DWARD	

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
R2105782-008.11					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-008.12					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-008.13					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0808	In Lab / VSTAUFFER	
R2105782-009.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1218	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-009.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-009.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-009.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-009.11					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0808	In Lab / VSTAUFFER	

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105782-009.12					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-009.13					
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-010.03					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1218	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-010.04					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/21/2021	1216	In Lab / KRUEST	
		6/21/2021	1448	R-001-S12 / KRUEST	
R2105782-010.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-010.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
R2105782-010.11					
	8081B				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2105782-010.12					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-010.13					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8082A,8081B				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-011.03					
	8260C				
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
		6/17/2021	1218	R-001-S12 / KRUEST	
		6/19/2021	1304	In Lab / KRUEST	
		6/19/2021	1433	R-001-S12 / KRUEST	
R2105782-011.04					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-011.05					
		6/11/2021	1243	SMO / DWARD	
		6/11/2021	1250	R-001 / DWARD	
R2105782-011.10					
		6/11/2021	1251	R-002 / DWARD	
		6/11/2021	1251	SMO / DWARD	
R2105782-011.11					
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
R2105782-011.12					
	8270D				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105782-011.13					
	8081B,8082A				
		6/11/2021	1251	SMO / DWARD	
		6/11/2021	1251	R-002 / DWARD	
		6/15/2021	0807	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
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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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 Certifications[1]

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 laboratoryôs 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.

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: WG-9954-060921-SG-007 **Date Collected:** 06/9/21
Lab Code: R2105782-001 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: TB-9952-060921-SG-002 **Date Collected:** 06/9/21
Lab Code: R2105782-002 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: WG-9954-060921-SG-008 **Date Collected:** 06/9/21
Lab Code: R2105782-003 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-060921-SG-009 **Date Collected:** 06/9/21
Lab Code: R2105782-004 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: WG-9954-060921-SG-010 **Date Collected:** 06/9/21
Lab Code: R2105782-005 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-060921-SG-011 **Date Collected:** 06/9/21
Lab Code: R2105782-006 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-060921-SG-012 **Date Collected:** 06/9/21
Lab Code: R2105782-007 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-060921-SG-013 **Date Collected:** 06/9/21
Lab Code: R2105782-008 **Date Received:** 06/10/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-060921-SG-013	**Date Collected:**	06/9/21
Lab Code:	R2105782-008	**Date Received:**	06/10/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060921-SG-014	**Date Collected:**	06/9/21
Lab Code:	R2105782-009	**Date Received:**	06/10/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060921-SG-015	**Date Collected:**	06/9/21
Lab Code:	R2105782-010	**Date Received:**	06/10/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-060921-SG-015	**Date Collected:**	06/9/21
Lab Code:	R2105782-010.R01	**Date Received:**	06/10/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	RB-9954-060921-SG-001	**Date Collected:**	06/9/21
Lab Code:	R2105782-011	**Date Received:**	06/10/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	06/19/21 14:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 14:51	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 14:51	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 14:51	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 14:51	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 14:51	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 14:51	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 14:51	
2-Hexanone	10 U	10	0.20	1	06/19/21 14:51	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 14:51	
Acetone	10 U	10	5.0	1	06/19/21 14:51	
Benzene	5.0 U	5.0	0.20	1	06/19/21 14:51	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 14:51	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 14:51	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 14:51	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 14:51	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 14:51	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 14:51	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 14:51	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 14:51	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 14:51	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 14:51	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 14:51	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 14:51	
Styrene	5.0 U	5.0	0.20	1	06/19/21 14:51	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 14:51	
Toluene	5.0 U	5.0	0.20	1	06/19/21 14:51	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 14:51	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 14:51	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 14:51	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 14:51	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 14:51	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 14:51	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 14:51	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 14:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	06/19/21 14:51	
Dibromofluoromethane	101	80 - 116	06/19/21 14:51	
Toluene-d8	101	87 - 121	06/19/21 14:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	1.56	10.1	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	TB-9952-060921-SG-002	**Units:**	ug/L
Lab Code:	R2105782-002	**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	06/19/21 14:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 14:08	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 14:08	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 14:08	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 14:08	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 14:08	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 14:08	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 14:08	
2-Hexanone	10 U	10	0.20	1	06/19/21 14:08	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 14:08	
Acetone	10 U	10	5.0	1	06/19/21 14:08	
Benzene	5.0 U	5.0	0.20	1	06/19/21 14:08	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 14:08	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 14:08	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 14:08	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 14:08	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 14:08	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 14:08	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 14:08	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 14:08	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 14:08	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 14:08	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 14:08	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 14:08	
Styrene	5.0 U	5.0	0.20	1	06/19/21 14:08	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 14:08	
Toluene	5.0 U	5.0	0.20	1	06/19/21 14:08	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 14:08	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 14:08	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 14:08	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 14:08	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 14:08	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 14:08	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 14:08	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 14:08	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	TB-9952-060921-SG-002	**Units:**	ug/L
Lab Code:	R2105782-002	**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	06/19/21 14:08	
Dibromofluoromethane	97	80 - 116	06/19/21 14:08	
Toluene-d8	99	87 - 121	06/19/21 14:08	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	TB-9952-060921-SG-002	**Units:**	ug/L
Lab Code:	R2105782-002	**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	1.56	11.9	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	06/19/21 15:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 15:13	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 15:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 15:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 15:13	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 15:13	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 15:13	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 15:13	
2-Hexanone	10 U	10	0.20	1	06/19/21 15:13	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 15:13	
Acetone	10 U	10	5.0	1	06/19/21 15:13	
Benzene	5.0 U	5.0	0.20	1	06/19/21 15:13	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 15:13	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 15:13	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 15:13	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 15:13	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 15:13	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 15:13	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 15:13	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 15:13	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 15:13	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 15:13	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 15:13	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 15:13	
Styrene	5.0 U	5.0	0.20	1	06/19/21 15:13	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 15:13	
Toluene	5.0 U	5.0	0.20	1	06/19/21 15:13	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 15:13	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 15:13	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 15:13	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 15:13	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 15:13	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 15:13	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 15:13	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 15:13	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	06/19/21 15:13	
Dibromofluoromethane	100	80 - 116	06/19/21 15:13	
Toluene-d8	102	87 - 121	06/19/21 15:13	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	1.56	9.2	J
000124-13-0	Octanal	11.76	6.4	JN
	unknown	12.71	5.1	J
000066-25-1	Hexanal	9.24	5.0	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	06/19/21 15:35	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 15:35	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 15:35	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 15:35	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 15:35	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 15:35	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 15:35	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 15:35	
2-Hexanone	10 U	10	0.20	1	06/19/21 15:35	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 15:35	
Acetone	10 U	10	5.0	1	06/19/21 15:35	
Benzene	5.0 U	5.0	0.20	1	06/19/21 15:35	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 15:35	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 15:35	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 15:35	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 15:35	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 15:35	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 15:35	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 15:35	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 15:35	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 15:35	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 15:35	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 15:35	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 15:35	
Styrene	5.0 U	5.0	0.20	1	06/19/21 15:35	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 15:35	
Toluene	5.0 U	5.0	0.20	1	06/19/21 15:35	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 15:35	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 15:35	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 15:35	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 15:35	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 15:35	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 15:35	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 15:35	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 15:35	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	06/19/21 15:35	
Dibromofluoromethane	97	80 - 116	06/19/21 15:35	
Toluene-d8	100	87 - 121	06/19/21 15:35	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	1.56	9.5	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	06/19/21 15:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 15:57	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 15:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 15:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 15:57	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 15:57	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 15:57	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 15:57	
2-Hexanone	10 U	10	0.20	1	06/19/21 15:57	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 15:57	
Acetone	10 U	10	5.0	1	06/19/21 15:57	
Benzene	5.0 U	5.0	0.20	1	06/19/21 15:57	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 15:57	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 15:57	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 15:57	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 15:57	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 15:57	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 15:57	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 15:57	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 15:57	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 15:57	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 15:57	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 15:57	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 15:57	
Styrene	5.0 U	5.0	0.20	1	06/19/21 15:57	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 15:57	
Toluene	5.0 U	5.0	0.20	1	06/19/21 15:57	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 15:57	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 15:57	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 15:57	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 15:57	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 15:57	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 15:57	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 15:57	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 15:57	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	06/19/21 15:57	
Dibromofluoromethane	99	80 - 116	06/19/21 15:57	
Toluene-d8	99	87 - 121	06/19/21 15:57	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	1.56	10.6	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	06/19/21 16:19	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 16:19	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 16:19	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 16:19	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 16:19	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 16:19	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 16:19	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 16:19	
2-Hexanone	10 U	10	0.20	1	06/19/21 16:19	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 16:19	
Acetone	10 U	10	5.0	1	06/19/21 16:19	
Benzene	5.0 U	5.0	0.20	1	06/19/21 16:19	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 16:19	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 16:19	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 16:19	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 16:19	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 16:19	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 16:19	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 16:19	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 16:19	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 16:19	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 16:19	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 16:19	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 16:19	
Styrene	5.0 U	5.0	0.20	1	06/19/21 16:19	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 16:19	
Toluene	5.0 U	5.0	0.20	1	06/19/21 16:19	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 16:19	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 16:19	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 16:19	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 16:19	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 16:19	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 16:19	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 16:19	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 16:19	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	06/19/21 16:19	
Dibromofluoromethane	99	80 - 116	06/19/21 16:19	
Toluene-d8	100	87 - 121	06/19/21 16:19	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	1.56	11.2	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	06/19/21 16:41	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 16:41	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 16:41	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 16:41	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 16:41	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 16:41	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 16:41	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 16:41	
2-Hexanone	10 U	10	0.20	1	06/19/21 16:41	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 16:41	
Acetone	10 U	10	5.0	1	06/19/21 16:41	
Benzene	5.0 U	5.0	0.20	1	06/19/21 16:41	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 16:41	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 16:41	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 16:41	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 16:41	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 16:41	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 16:41	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 16:41	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 16:41	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 16:41	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 16:41	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 16:41	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 16:41	
Styrene	5.0 U	5.0	0.20	1	06/19/21 16:41	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 16:41	
Toluene	5.0 U	5.0	0.20	1	06/19/21 16:41	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 16:41	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 16:41	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 16:41	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 16:41	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 16:41	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 16:41	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 16:41	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 16:41	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	06/19/21 16:41	
Dibromofluoromethane	102	80 - 116	06/19/21 16:41	
Toluene-d8	104	87 - 121	06/19/21 16:41	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	1.56	10.5	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	06/19/21 17:02	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 17:02	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 17:02	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 17:02	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 17:02	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 17:02	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 17:02	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 17:02	
2-Hexanone	10 U	10	0.20	1	06/19/21 17:02	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 17:02	
Acetone	10 U	10	5.0	1	06/19/21 17:02	
Benzene	5.0 U	5.0	0.20	1	06/19/21 17:02	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 17:02	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 17:02	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 17:02	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 17:02	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 17:02	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 17:02	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 17:02	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 17:02	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 17:02	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 17:02	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 17:02	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 17:02	
Styrene	5.0 U	5.0	0.20	1	06/19/21 17:02	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 17:02	
Toluene	5.0 U	5.0	0.20	1	06/19/21 17:02	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 17:02	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 17:02	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 17:02	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 17:02	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 17:02	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 17:02	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 17:02	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 17:02	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	06/19/21 17:02	
Dibromofluoromethane	97	80 - 116	06/19/21 17:02	
Toluene-d8	100	87 - 121	06/19/21 17:02	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	1.56	9.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	06/19/21 17:24	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 17:24	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 17:24	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 17:24	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 17:24	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 17:24	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 17:24	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 17:24	
2-Hexanone	10 U	10	0.20	1	06/19/21 17:24	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 17:24	
Acetone	10 U	10	5.0	1	06/19/21 17:24	
Benzene	5.0 U	5.0	0.20	1	06/19/21 17:24	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 17:24	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 17:24	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 17:24	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 17:24	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 17:24	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 17:24	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 17:24	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 17:24	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 17:24	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 17:24	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 17:24	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 17:24	
Styrene	5.0 U	5.0	0.20	1	06/19/21 17:24	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 17:24	
Toluene	5.0 U	5.0	0.20	1	06/19/21 17:24	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 17:24	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 17:24	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 17:24	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 17:24	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 17:24	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 17:24	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 17:24	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 17:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	87	85 - 122	06/19/21 17:24	
Dibromofluoromethane	96	80 - 116	06/19/21 17:24	
Toluene-d8	99	87 - 121	06/19/21 17:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	1.56	9.3	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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)	1000	U	1000	40	200	06/21/21 14:53	
1,1,2,2-Tetrachloroethane	1000	U	1000	40	200	06/21/21 14:53	
1,1,2-Trichloroethane	1000	U	1000	40	200	06/21/21 14:53	
1,1-Dichloroethane (1,1-DCA)	1000	U	1000	40	200	06/21/21 14:53	
1,1-Dichloroethene (1,1-DCE)	1000	U	1000	40	200	06/21/21 14:53	
1,2-Dichloroethane	1000	U	1000	40	200	06/21/21 14:53	
1,2-Dichloropropane	1000	U	1000	40	200	06/21/21 14:53	
2-Butanone (MEK)	2000	U	2000	160	200	06/21/21 14:53	
2-Hexanone	2000	U	2000	40	200	06/21/21 14:53	
4-Methyl-2-pentanone	2000	U	2000	40	200	06/21/21 14:53	
Acetone	2000	U	2000	1000	200	06/21/21 14:53	
Benzene	**6800**		1000	40	200	06/21/21 14:53	
Bromodichloromethane	**75**	**J**	1000	40	200	06/21/21 14:53	
Bromoform	1000	U	1000	50	200	06/21/21 14:53	
Bromomethane	1000	U	1000	140	200	06/21/21 14:53	
Carbon Disulfide	2000	U	2000	84	200	06/21/21 14:53	
Carbon Tetrachloride	1000	U	1000	68	200	06/21/21 14:53	
Chlorobenzene	**2500**		1000	40	200	06/21/21 14:53	
Chloroethane	1000	U	1000	46	200	06/21/21 14:53	
Chloroform	**420**	**J**	1000	48	200	06/21/21 14:53	
Chloromethane	1000	U	1000	56	200	06/21/21 14:53	
Dibromochloromethane	1000	U	1000	40	200	06/21/21 14:53	
Dichloromethane	1000	U	1000	130	200	06/21/21 14:53	
Ethylbenzene	1000	U	1000	40	200	06/21/21 14:53	
Styrene	1000	U	1000	40	200	06/21/21 14:53	
Tetrachloroethene (PCE)	1000	U	1000	42	200	06/21/21 14:53	
Toluene	**25000**		1000	40	200	06/21/21 14:53	
Trichloroethene (TCE)	**120**	**J**	1000	40	200	06/21/21 14:53	
Vinyl Acetate	2000	U	2000	220	200	06/21/21 14:53	
Vinyl Chloride	1000	U	1000	40	200	06/21/21 14:53	
Xylenes, Total	1000	U	1000	46	200	06/21/21 14:53	
cis-1,2-Dichloroethene	1000	U	1000	46	200	06/21/21 14:53	
cis-1,3-Dichloropropene	1000	U	1000	40	200	06/21/21 14:53	
trans-1,2-Dichloroethene	1000	U	1000	40	200	06/21/21 14:53	
trans-1,3-Dichloropropene	1000	U	1000	46	200	06/21/21 14:53	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	06/21/21 14:53	
Dibromofluoromethane	97	80 - 116	06/21/21 14:53	
Toluene-d8	98	87 - 121	06/21/21 14:53	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.56	4456.0	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	06/19/21 14:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 14:30	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 14:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 14:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 14:30	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 14:30	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 14:30	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 14:30	
2-Hexanone	10 U	10	0.20	1	06/19/21 14:30	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 14:30	
Acetone	10 U	10	5.0	1	06/19/21 14:30	
Benzene	5.0 U	5.0	0.20	1	06/19/21 14:30	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 14:30	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 14:30	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 14:30	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 14:30	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 14:30	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 14:30	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 14:30	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 14:30	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 14:30	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 14:30	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 14:30	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 14:30	
Styrene	5.0 U	5.0	0.20	1	06/19/21 14:30	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 14:30	
Toluene	5.0 U	5.0	0.20	1	06/19/21 14:30	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 14:30	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 14:30	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 14:30	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 14:30	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 14:30	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 14:30	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 14:30	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 14:30	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	06/19/21 14:30	
Dibromofluoromethane	99	80 - 116	06/19/21 14:30	
Toluene-d8	101	87 - 121	06/19/21 14:30	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	1.56	10.3	J

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
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	1.2	1	06/16/21 16:35	6/14/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 16:35	6/14/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 16:35	6/14/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 16:35	6/14/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 16:35	6/14/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 16:35	6/14/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 16:35	6/14/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 16:35	6/14/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 16:35	6/14/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 16:35	6/14/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 16:35	6/14/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 16:35	6/14/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
Benzoic Acid	45 U	45	36	1	06/16/21 16:35	6/14/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 16:35	6/14/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 16:35	6/14/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 16:35	6/14/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	1.7	1	06/16/21 16:35	6/14/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 16:35	6/14/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 16:35	6/14/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 16:35	6/14/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 16:35	6/14/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 16:35	6/14/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 16:35	6/14/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 16:35	6/14/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 16:35	6/14/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 16:35	6/14/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 16:35	6/14/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 16:35	6/14/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 16:35	6/14/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 16:35	6/14/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 16:35	6/14/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 16:35	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	97	35 - 141	06/16/21 16:35	
2-Fluorobiphenyl	55	31 - 118	06/16/21 16:35	
2-Fluorophenol	38	10 - 105	06/16/21 16:35	
Nitrobenzene-d5	53	31 - 110	06/16/21 16:35	
Phenol-d6	28	10 - 107	06/16/21 16:35	
p-Terphenyl-d14	81	10 - 165	06/16/21 16:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.52	27	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	1.2	1	06/16/21 17:03	6/14/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 17:03	6/14/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 17:03	6/14/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 17:03	6/14/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 17:03	6/14/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 17:03	6/14/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 17:03	6/14/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 17:03	6/14/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 17:03	6/14/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 17:03	6/14/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 17:03	6/14/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 17:03	6/14/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
Benzoic Acid	45 U	45	36	1	06/16/21 17:03	6/14/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 17:03	6/14/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 17:03	6/14/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 17:03	6/14/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	1.7	1	06/16/21 17:03	6/14/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 17:03	6/14/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 17:03	6/14/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 17:03	6/14/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 17:03	6/14/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 17:03	6/14/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 17:03	6/14/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 17:03	6/14/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 17:03	6/14/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 17:03	6/14/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 17:03	6/14/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 17:03	6/14/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 17:03	6/14/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 17:03	6/14/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 17:03	6/14/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 17:03	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	06/16/21 17:03	
2-Fluorobiphenyl	45	31 - 118	06/16/21 17:03	
2-Fluorophenol	33	10 - 105	06/16/21 17:03	
Nitrobenzene-d5	43	31 - 110	06/16/21 17:03	
Phenol-d6	24	10 - 107	06/16/21 17:03	
p-Terphenyl-d14	72	10 - 165	06/16/21 17:03	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	1.2	1	06/16/21 17:31	6/14/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 17:31	6/14/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 17:31	6/14/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 17:31	6/14/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 17:31	6/14/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 17:31	6/14/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 17:31	6/14/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 17:31	6/14/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 17:31	6/14/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 17:31	6/14/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 17:31	6/14/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 17:31	6/14/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
Benzoic Acid	45 U	45	36	1	06/16/21 17:31	6/14/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 17:31	6/14/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 17:31	6/14/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 17:31	6/14/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	1.7	1	06/16/21 17:31	6/14/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 17:31	6/14/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 17:31	6/14/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 17:31	6/14/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 17:31	6/14/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 17:31	6/14/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 17:31	6/14/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 17:31	6/14/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 17:31	6/14/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 17:31	6/14/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 17:31	6/14/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 17:31	6/14/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 17:31	6/14/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 17:31	6/14/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 17:31	6/14/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 17:31	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	06/16/21 17:31	
2-Fluorobiphenyl	41	31 - 118	06/16/21 17:31	
2-Fluorophenol	32	10 - 105	06/16/21 17:31	
Nitrobenzene-d5	43	31 - 110	06/16/21 17:31	
Phenol-d6	24	10 - 107	06/16/21 17:31	
p-Terphenyl-d14	72	10 - 165	06/16/21 17:31	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	1.2	1	06/16/21 17:58	6/14/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 17:58	6/14/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 17:58	6/14/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 17:58	6/14/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 17:58	6/14/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 17:58	6/14/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 17:58	6/14/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 17:58	6/14/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 17:58	6/14/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 17:58	6/14/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 17:58	6/14/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 17:58	6/14/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
Benzoic Acid	45 U	45	36	1	06/16/21 17:58	6/14/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 17:58	6/14/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 17:58	6/14/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 17:58	6/14/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	1.7	1	06/16/21 17:58	6/14/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 17:58	6/14/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 17:58	6/14/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 17:58	6/14/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 17:58	6/14/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 17:58	6/14/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 17:58	6/14/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 17:58	6/14/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 17:58	6/14/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 17:58	6/14/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 17:58	6/14/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 17:58	6/14/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 17:58	6/14/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 17:58	6/14/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 17:58	6/14/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 17:58	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	92	35 - 141	06/16/21 17:58	
2-Fluorobiphenyl	41	31 - 118	06/16/21 17:58	
2-Fluorophenol	34	10 - 105	06/16/21 17:58	
Nitrobenzene-d5	45	31 - 110	06/16/21 17:58	
Phenol-d6	24	10 - 107	06/16/21 17:58	
p-Terphenyl-d14	80	10 - 165	06/16/21 17:58	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	24	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	1.2	1	06/16/21 21:42	6/15/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 21:42	6/15/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 21:42	6/15/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 21:42	6/15/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 21:42	6/15/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 21:42	6/15/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 21:42	6/15/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 21:42	6/15/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 21:42	6/15/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 21:42	6/15/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 21:42	6/15/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 21:42	6/15/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
Benzoic Acid	45 U	45	36	1	06/16/21 21:42	6/15/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 21:42	6/15/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 21:42	6/15/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 21:42	6/15/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	1.7	1	06/16/21 21:42	6/15/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 21:42	6/15/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 21:42	6/15/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 21:42	6/15/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 21:42	6/15/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 21:42	6/15/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 21:42	6/15/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 21:42	6/15/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 21:42	6/15/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 21:42	6/15/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 21:42	6/15/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 21:42	6/15/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 21:42	6/15/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 21:42	6/15/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 21:42	6/15/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 21:42	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	06/16/21 21:42	
2-Fluorobiphenyl	36	31 - 118	06/16/21 21:42	
2-Fluorophenol	37	10 - 105	06/16/21 21:42	
Nitrobenzene-d5	45	31 - 110	06/16/21 21:42	
Phenol-d6	25	10 - 107	06/16/21 21:42	
p-Terphenyl-d14	74	10 - 165	06/16/21 21:42	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	31	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	1.2	1	06/16/21 22:10	6/15/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 22:10	6/15/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 22:10	6/15/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 22:10	6/15/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 22:10	6/15/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 22:10	6/15/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 22:10	6/15/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 22:10	6/15/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 22:10	6/15/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 22:10	6/15/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 22:10	6/15/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 22:10	6/15/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
Benzoic Acid	45 U	45	36	1	06/16/21 22:10	6/15/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 22:10	6/15/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 22:10	6/15/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 22:10	6/15/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	1.7	1	06/16/21 22:10	6/15/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 22:10	6/15/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 22:10	6/15/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 22:10	6/15/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 22:10	6/15/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 22:10	6/15/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 22:10	6/15/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 22:10	6/15/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 22:10	6/15/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 22:10	6/15/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 22:10	6/15/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 22:10	6/15/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 22:10	6/15/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 22:10	6/15/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 22:10	6/15/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 22:10	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	73	35 - 141	06/16/21 22:10	
2-Fluorobiphenyl	36	31 - 118	06/16/21 22:10	
2-Fluorophenol	37	10 - 105	06/16/21 22:10	
Nitrobenzene-d5	45	31 - 110	06/16/21 22:10	
Phenol-d6	25	10 - 107	06/16/21 22:10	
p-Terphenyl-d14	59	10 - 165	06/16/21 22:10	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.52	40	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	1.2	1	06/16/21 22:38	6/15/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 22:38	6/15/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 22:38	6/15/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 22:38	6/15/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 22:38	6/15/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 22:38	6/15/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 22:38	6/15/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 22:38	6/15/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 22:38	6/15/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 22:38	6/15/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 22:38	6/15/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 22:38	6/15/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
Benzoic Acid	45 U	45	36	1	06/16/21 22:38	6/15/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 22:38	6/15/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 22:38	6/15/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 22:38	6/15/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	1.7	1	06/16/21 22:38	6/15/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 22:38	6/15/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 22:38	6/15/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 22:38	6/15/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 22:38	6/15/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 22:38	6/15/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 22:38	6/15/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 22:38	6/15/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 22:38	6/15/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 22:38	6/15/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 22:38	6/15/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 22:38	6/15/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 22:38	6/15/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 22:38	6/15/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 22:38	6/15/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 22:38	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	06/16/21 22:38	
2-Fluorobiphenyl	50	31 - 118	06/16/21 22:38	
2-Fluorophenol	41	10 - 105	06/16/21 22:38	
Nitrobenzene-d5	55	31 - 110	06/16/21 22:38	
Phenol-d6	28	10 - 107	06/16/21 22:38	
p-Terphenyl-d14	60	10 - 165	06/16/21 22:38	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	1.2	1	06/16/21 23:06	6/15/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
2,4-Dinitrophenol	45 U	45	20	1	06/16/21 23:06	6/15/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/16/21 23:06	6/15/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/16/21 23:06	6/15/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/16/21 23:06	6/15/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/16/21 23:06	6/15/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/16/21 23:06	6/15/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/16/21 23:06	6/15/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/16/21 23:06	6/15/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
4-Nitrophenol	45 U	45	6.4	1	06/16/21 23:06	6/15/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
Anthracene	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/16/21 23:06	6/15/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/16/21 23:06	6/15/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
Benzoic Acid	45 U	45	36	1	06/16/21 23:06	6/15/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/16/21 23:06	6/15/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/16/21 23:06	6/15/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/16/21 23:06	6/15/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
Chrysene	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	1.7	1	06/16/21 23:06	6/15/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/16/21 23:06	6/15/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/16/21 23:06	6/15/21	
Fluorene	9.1 U	9.1	1.3	1	06/16/21 23:06	6/15/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/16/21 23:06	6/15/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/16/21 23:06	6/15/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/16/21 23:06	6/15/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/16/21 23:06	6/15/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/16/21 23:06	6/15/21	
Isophorone	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/16/21 23:06	6/15/21	
Naphthalene	9.1 U	9.1	1.2	1	06/16/21 23:06	6/15/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/16/21 23:06	6/15/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/16/21 23:06	6/15/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/16/21 23:06	6/15/21	
Phenol	9.1 U	9.1	1.0	1	06/16/21 23:06	6/15/21	
Pyrene	9.1 U	9.1	1.5	1	06/16/21 23:06	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	74	35 - 141	06/16/21 23:06	
2-Fluorobiphenyl	41	31 - 118	06/16/21 23:06	
2-Fluorophenol	39	10 - 105	06/16/21 23:06	
Nitrobenzene-d5	47	31 - 110	06/16/21 23:06	
Phenol-d6	25	10 - 107	06/16/21 23:06	
p-Terphenyl-d14	63	10 - 165	06/16/21 23:06	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	37	JN
	unknown	3.03	8.3	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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	**51**	**J**	91	12	10	06/17/21 14:09	6/15/21	
1,2-Dichlorobenzene	**29**	**J**	91	12	10	06/17/21 14:09	6/15/21	
1,3-Dichlorobenzene	91	U	91	11	10	06/17/21 14:09	6/15/21	
1,4-Dichlorobenzene	**82**	**J**	91	12	10	06/17/21 14:09	6/15/21	
2,4,5-Trichlorophenol	**23**	**J**	91	11	10	06/17/21 14:09	6/15/21	
2,4,6-Trichlorophenol	91	U	91	14	10	06/17/21 14:09	6/15/21	
2,4-Dichlorophenol	**140**		91	13	10	06/17/21 14:09	6/15/21	
2,4-Dimethylphenol	91	U	91	14	10	06/17/21 14:09	6/15/21	
2,4-Dinitrophenol	450	U	450	200	10	06/17/21 14:09	6/15/21	
2,4-Dinitrotoluene	91	U	91	24	10	06/17/21 14:09	6/15/21	
2,6-Dinitrotoluene	91	U	91	14	10	06/17/21 14:09	6/15/21	
2-Chloronaphthalene	91	U	91	14	10	06/17/21 14:09	6/15/21	
2-Chlorophenol	**18**	**J**	91	11	10	06/17/21 14:09	6/15/21	
2-Methylnaphthalene	91	U	91	13	10	06/17/21 14:09	6/15/21	
2-Methylphenol	**28**	**J**	91	10	10	06/17/21 14:09	6/15/21	
2-Nitroaniline	91	U	91	14	10	06/17/21 14:09	6/15/21	
2-Nitrophenol	91	U	91	15	10	06/17/21 14:09	6/15/21	
3,3'-Dichlorobenzidine	91	U	91	12	10	06/17/21 14:09	6/15/21	
3- and 4-Methylphenol Coelution	**74**	**J**	91	12	10	06/17/21 14:09	6/15/21	
3-Nitroaniline	91	U	91	11	10	06/17/21 14:09	6/15/21	
4,6-Dinitro-2-methylphenol	450	U	450	87	10	06/17/21 14:09	6/15/21	
4-Bromophenyl Phenyl Ether	91	U	91	17	10	06/17/21 14:09	6/15/21	
4-Chloro-3-methylphenol	**20**	**J**	91	11	10	06/17/21 14:09	6/15/21	
4-Chloroaniline	91	U	91	10	10	06/17/21 14:09	6/15/21	
4-Chlorophenyl Phenyl Ether	91	U	91	15	10	06/17/21 14:09	6/15/21	
4-Nitroaniline	91	U	91	14	10	06/17/21 14:09	6/15/21	
4-Nitrophenol	450	U	450	64	10	06/17/21 14:09	6/15/21	
Acenaphthene	91	U	91	14	10	06/17/21 14:09	6/15/21	
Acenaphthylene	91	U	91	14	10	06/17/21 14:09	6/15/21	
Anthracene	91	U	91	13	10	06/17/21 14:09	6/15/21	
Benz(a)anthracene	91	U	91	16	10	06/17/21 14:09	6/15/21	
Benzo(a)pyrene	91	U	91	12	10	06/17/21 14:09	6/15/21	
Benzo(b)fluoranthene	91	U	91	12	10	06/17/21 14:09	6/15/21	
Benzo(g,h,i)perylene	91	U	91	10	10	06/17/21 14:09	6/15/21	
Benzo(k)fluoranthene	91	U	91	13	10	06/17/21 14:09	6/15/21	
Benzoic Acid	**3600**		450	360	10	06/17/21 14:09	6/15/21	
Benzyl Alcohol	**260**		91	16	10	06/17/21 14:09	6/15/21	
2,2'-Oxybis(1-chloropropane)	91	U	91	14	10	06/17/21 14:09	6/15/21	
Bis(2-chloroethoxy)methane	91	U	91	19	10	06/17/21 14:09	6/15/21	
Bis(2-chloroethyl) Ether	**18**	**J**	91	13	10	06/17/21 14:09	6/15/21	
Bis(2-ethylhexyl) Phthalate	91	U	91	78	10	06/17/21 14:09	6/15/21	
Butyl Benzyl Phthalate	91	U	91	14	10	06/17/21 14:09	6/15/21	
Chrysene	91	U	91	12	10	06/17/21 14:09	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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	91 U	91	17	10	06/17/21 14:09	6/15/21	
Di-n-octyl Phthalate	91 U	91	33	10	06/17/21 14:09	6/15/21	
Dibenz(a,h)anthracene	91 U	91	11	10	06/17/21 14:09	6/15/21	
Dibenzofuran	91 U	91	14	10	06/17/21 14:09	6/15/21	
Diethyl Phthalate	91 U	91	11	10	06/17/21 14:09	6/15/21	
Dimethyl Phthalate	91 U	91	13	10	06/17/21 14:09	6/15/21	
Fluoranthene	91 U	91	15	10	06/17/21 14:09	6/15/21	
Fluorene	91 U	91	13	10	06/17/21 14:09	6/15/21	
Hexachlorobenzene	91 U	91	16	10	06/17/21 14:09	6/15/21	
Hexachlorobutadiene	91 U	91	10	10	06/17/21 14:09	6/15/21	
Hexachlorocyclopentadiene	91 U	91	22	10	06/17/21 14:09	6/15/21	
Hexachloroethane	91 U	91	11	10	06/17/21 14:09	6/15/21	
Indeno(1,2,3-cd)pyrene	91 U	91	18	10	06/17/21 14:09	6/15/21	
Isophorone	91 U	91	14	10	06/17/21 14:09	6/15/21	
N-Nitrosodi-n-propylamine	91 U	91	12	10	06/17/21 14:09	6/15/21	
N-Nitrosodiphenylamine	91 U	91	27	10	06/17/21 14:09	6/15/21	
Naphthalene	91 U	91	12	10	06/17/21 14:09	6/15/21	
Nitrobenzene	91 U	91	15	10	06/17/21 14:09	6/15/21	
Pentachlorophenol (PCP)	450 U	450	97	10	06/17/21 14:09	6/15/21	
Phenanthrene	91 U	91	14	10	06/17/21 14:09	6/15/21	
Phenol	**40 J**	91	10	10	06/17/21 14:09	6/15/21	
Pyrene	91 U	91	15	10	06/17/21 14:09	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	56	35 - 141	06/17/21 14:09	
2-Fluorobiphenyl	45	31 - 118	06/17/21 14:09	
2-Fluorophenol	29	10 - 105	06/17/21 14:09	
Nitrobenzene-d5	56	31 - 110	06/17/21 14:09	
Phenol-d6	20	10 - 107	06/17/21 14:09	
p-Terphenyl-d14	51	10 - 165	06/17/21 14:09	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-95-0	Benzoic acid, 4-benzoyl-	10.41	540	JN
000579-18-0	3-Benzoylbenzoic acid	10.45	260	JN
	unknown	2.52	100	J
000108-88-3	Toluene	3.03	6000	JN
000108-90-7	Benzene, chloro-	3.62	630	JN
000108-93-0	Cyclohexanol	3.91	170	JN
	unknown	4.34	100	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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
000095-49-8	Benzene, 1-chloro-2-methyl-	4.39	4200	JN
000098-89-5	Cyclohexanecarboxylic acid	5.44	54	JN
000095-73-8	Benzene, 2,4-dichloro-1-methyl-	5.55	200	JN
032768-54-0	Benzene, 1,2-dichloro-3-methyl-	5.56	220	JN
017849-38-6	Benzenemethanol, 2-chloro-	6.12	740	JN
000103-82-2	Benzeneacetic acid	6.22	61	JN
000873-76-7	p-Chlorobenzyl alcohol	6.27	68	JN
002077-46-5	Benzene, 1,2,4-trichloro-3-methyl-	6.71	69	JN
000074-11-3	Benzoic acid, 4-chloro-	6.88	9800	JN
000095-77-2	Phenol, 3,4-dichloro-	7.21	150	JN
	unknown	7.33	67	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	1.2	1	06/17/21 00:02	6/15/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 00:02	6/15/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 00:02	6/15/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 00:02	6/15/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 00:02	6/15/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 00:02	6/15/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 00:02	6/15/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 00:02	6/15/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 00:02	6/15/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
4-Nitrophenol	45 U	45	6.4	1	06/17/21 00:02	6/15/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
Anthracene	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 00:02	6/15/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 00:02	6/15/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
Benzoic Acid	45 U	45	36	1	06/17/21 00:02	6/15/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 00:02	6/15/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 00:02	6/15/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 00:02	6/15/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
Chrysene	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	1.7	1	06/17/21 00:02	6/15/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 00:02	6/15/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 00:02	6/15/21	
Fluorene	9.1 U	9.1	1.3	1	06/17/21 00:02	6/15/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 00:02	6/15/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 00:02	6/15/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 00:02	6/15/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 00:02	6/15/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 00:02	6/15/21	
Isophorone	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 00:02	6/15/21	
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 00:02	6/15/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 00:02	6/15/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 00:02	6/15/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 00:02	6/15/21	
Phenol	9.1 U	9.1	1.0	1	06/17/21 00:02	6/15/21	
Pyrene	9.1 U	9.1	1.5	1	06/17/21 00:02	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	06/17/21 00:02	
2-Fluorobiphenyl	49	31 - 118	06/17/21 00:02	
2-Fluorophenol	41	10 - 105	06/17/21 00:02	
Nitrobenzene-d5	54	31 - 110	06/17/21 00:02	
Phenol-d6	29	10 - 107	06/17/21 00:02	
p-Terphenyl-d14	83	10 - 165	06/17/21 00:02	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	33	JN
	unknown	3.03	8.5	J

Semivolatile Organic Compounds by GC

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	0.020	1	06/16/21 17:38	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 17:38	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 17:38	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	46	10 - 164	06/16/21 17:38	
Tetrachloro-m-xylene	48	10 - 147	06/16/21 17:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	0.020	1	06/16/21 18:38	6/14/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 18:38	6/14/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 18:38	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	17	10 - 164	06/16/21 18:38	
Tetrachloro-m-xylene	48	10 - 147	06/16/21 18:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	0.020	1	06/16/21 21:38	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 21:38	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 21:38	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	29	10 - 164	06/16/21 21:38	
Tetrachloro-m-xylene	34	10 - 147	06/16/21 21:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	0.020	1	06/16/21 21:58	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 21:58	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 21:58	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	22	10 - 164	06/16/21 21:58	
Tetrachloro-m-xylene	42	10 - 147	06/16/21 21:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	0.020	1	06/16/21 22:18	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 22:18	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 22:18	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	06/16/21 22:18	
Tetrachloro-m-xylene	34	10 - 147	06/16/21 22:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	0.020	1	06/16/21 22:38	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 22:38	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 22:38	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	25	10 - 164	06/16/21 22:38	
Tetrachloro-m-xylene	40	10 - 147	06/16/21 22:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	0.020	1	06/16/21 22:58	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 22:58	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 22:58	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	20	10 - 164	06/16/21 22:58	
Tetrachloro-m-xylene	45	10 - 147	06/16/21 22:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	0.020	1	06/16/21 23:18	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 23:18	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
delta-BHC	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/16/21 23:18	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	17	10 - 164	06/16/21 23:18	
Tetrachloro-m-xylene	44	10 - 147	06/16/21 23:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
4,4'-DDE	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
4,4'-DDT	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Aldrin	**0.53**	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Dieldrin	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Endosulfan I	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Endosulfan II	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Endosulfan Sulfate	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Endrin	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Endrin Ketone	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Heptachlor	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Heptachlor Epoxide	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Methoxychlor	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
Toxaphene	2.5 U	2.5	2.5	5	06/25/21 22:58	6/23/21	*
alpha-BHC	**16**	0.23	0.10	5	06/25/21 22:58	6/23/21	*
alpha-Chlordane	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*
beta-BHC	**4.7**	0.23	0.10	5	06/25/21 22:58	6/23/21	*
delta-BHC	**6.3**	0.23	0.10	5	06/25/21 22:58	6/23/21	*
gamma-BHC (Lindane)	**2.2**	0.23	0.10	5	06/25/21 22:58	6/23/21	*
gamma-Chlordane	0.23 U	0.23	0.10	5	06/25/21 22:58	6/23/21	*

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	06/25/21 22:58	
Tetrachloro-m-xylene	212 *	10 - 147	06/25/21 22:58	*

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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	0.20	10	06/18/21 15:40	6/15/21	
4,4'-DDE	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
4,4'-DDT	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Aldrin	**0.80**	0.45	0.20	10	06/18/21 15:40	6/15/21	
Dieldrin	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Endosulfan I	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Endosulfan II	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Endosulfan Sulfate	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Endrin	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Endrin Ketone	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Heptachlor	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Heptachlor Epoxide	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Methoxychlor	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
Toxaphene	5.0 U	5.0	5.0	10	06/18/21 15:40	6/15/21	
alpha-BHC	**21**	0.45	0.20	10	06/18/21 15:40	6/15/21	
alpha-Chlordane	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	
beta-BHC	**6.6**	0.45	0.20	10	06/18/21 15:40	6/15/21	
delta-BHC	**8.8**	0.45	0.20	10	06/18/21 15:40	6/15/21	
gamma-BHC (Lindane)	**4.0**	0.45	0.20	10	06/18/21 15:40	6/15/21	
gamma-Chlordane	0.45 U	0.45	0.20	10	06/18/21 15:40	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	31	10 - 164	06/18/21 15:40	
Tetrachloro-m-xylene	338 *	10 - 147	06/18/21 15:40	*

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	0.020	1	06/17/21 00:18	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Aldrin	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/17/21 00:18	6/15/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
delta-BHC	**0.038 J**	0.045	0.020	1	06/17/21 00:18	6/15/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/17/21 00:18	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	21	10 - 164	06/17/21 00:18	
Tetrachloro-m-xylene	51	10 - 147	06/17/21 00:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**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	0.50	1	06/17/21 15:22	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 15:22	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 15:22	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 15:22	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 15:22	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 15:22	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 15:22	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 152	06/17/21 15:22	
Tetrachloro-m-xylene	51	14 - 129	06/17/21 15:22	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 09:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-008	**Units:**	ug/L
Lab Code:	R2105782-003	**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	0.50	1	06/17/21 15:42	6/14/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/17/21 15:42	6/14/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/17/21 15:42	6/14/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/17/21 15:42	6/14/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/17/21 15:42	6/14/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/17/21 15:42	6/14/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/17/21 15:42	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 152	06/17/21 15:42	
Tetrachloro-m-xylene	55	14 - 129	06/17/21 15:42	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 10:15
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-009	**Units:**	ug/L
Lab Code:	R2105782-004	**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	0.50	1	06/18/21 00:48	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 00:48	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 00:48	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 00:48	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 00:48	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 00:48	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 00:48	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	41	10 - 152	06/18/21 00:48	
Tetrachloro-m-xylene	40	14 - 129	06/18/21 00:48	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-010	**Units:**	ug/L
Lab Code:	R2105782-005	**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	0.50	1	06/18/21 01:07	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 01:07	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 01:07	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 01:07	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 01:07	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 01:07	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 01:07	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	29	10 - 152	06/18/21 01:07	
Tetrachloro-m-xylene	50	14 - 129	06/18/21 01:07	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:00
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-011	**Units:**	ug/L
Lab Code:	R2105782-006	**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	0.50	1	06/18/21 01:27	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 01:27	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 01:27	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 01:27	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 01:27	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 01:27	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 01:27	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 152	06/18/21 01:27	
Tetrachloro-m-xylene	38	14 - 129	06/18/21 01:27	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 11:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-012	**Units:**	ug/L
Lab Code:	R2105782-007	**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	0.50	1	06/18/21 01:47	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 01:47	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 01:47	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 01:47	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 01:47	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 01:47	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 01:47	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	35	10 - 152	06/18/21 01:47	
Tetrachloro-m-xylene	47	14 - 129	06/18/21 01:47	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 12:25
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-013	**Units:**	ug/L
Lab Code:	R2105782-008	**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	0.50	1	06/18/21 02:06	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 02:06	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 02:06	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 02:06	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 02:06	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 02:06	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 02:06	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 152	06/18/21 02:06	
Tetrachloro-m-xylene	53	14 - 129	06/18/21 02:06	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:05
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-014	**Units:**	ug/L
Lab Code:	R2105782-009	**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	0.50	1	06/18/21 02:46	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 02:46	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 02:46	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 02:46	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 02:46	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 02:46	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 02:46	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	10 - 152	06/18/21 02:46	
Tetrachloro-m-xylene	52	14 - 129	06/18/21 02:46	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 13:45
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	WG-9954-060921-SG-015	**Units:**	ug/L
Lab Code:	R2105782-010	**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	0.50	1	06/18/21 03:05	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 03:05	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 03:05	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 03:05	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 03:05	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 03:05	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 03:05	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	34	10 - 152	06/18/21 03:05	
Tetrachloro-m-xylene	72	14 - 129	06/18/21 03:05	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21 14:30
Sample Matrix:	Water	**Date Received:**	06/10/21 09:40
Sample Name:	RB-9954-060921-SG-001	**Units:**	ug/L
Lab Code:	R2105782-011	**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	0.50	1	06/18/21 03:25	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 03:25	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 03:25	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 03:25	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 03:25	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 03:25	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 03:25	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 152	06/18/21 03:25	
Tetrachloro-m-xylene	61	14 - 129	06/18/21 03:25	

QC Summary 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

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-060921-SG-007	R2105782-001	91	101	101
TB-9952-060921-SG-002	R2105782-002	89	97	99
WG-9954-060921-SG-008	R2105782-003	92	100	102
WG-9954-060921-SG-009	R2105782-004	89	97	100
WG-9954-060921-SG-010	R2105782-005	90	99	99
WG-9954-060921-SG-011	R2105782-006	91	99	100
WG-9954-060921-SG-012	R2105782-007	93	102	104
WG-9954-060921-SG-013	R2105782-008	91	97	100
WG-9954-060921-SG-014	R2105782-009	87	96	99
RB-9954-060921-SG-001	R2105782-011	91	99	101
Method Blank	RQ2107042-04	93	99	103
Lab Control Sample	RQ2107042-03	88	98	95
WG-9954-060921-SG-015	R2105782-010	89	97	98
Method Blank	RQ2107077-06	86	94	95
Lab Control Sample	RQ2107077-03	96	100	100

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107042-04	**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	06/19/21 12:55	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/19/21 12:55	
2-Butanone (MEK)	10 U	10	0.78	1	06/19/21 12:55	
2-Hexanone	10 U	10	0.20	1	06/19/21 12:55	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/19/21 12:55	
Acetone	10 U	10	5.0	1	06/19/21 12:55	
Benzene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
Bromoform	5.0 U	5.0	0.25	1	06/19/21 12:55	
Bromomethane	5.0 U	5.0	0.70	1	06/19/21 12:55	
Carbon Disulfide	10 U	10	0.42	1	06/19/21 12:55	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/19/21 12:55	
Chlorobenzene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Chloroethane	5.0 U	5.0	0.23	1	06/19/21 12:55	
Chloroform	5.0 U	5.0	0.24	1	06/19/21 12:55	
Chloromethane	5.0 U	5.0	0.28	1	06/19/21 12:55	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/19/21 12:55	
Dichloromethane	5.0 U	5.0	0.65	1	06/19/21 12:55	
Ethylbenzene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Styrene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/19/21 12:55	
Toluene	5.0 U	5.0	0.20	1	06/19/21 12:55	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/19/21 12:55	
Vinyl Acetate	10 U	10	1.1	1	06/19/21 12:55	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/19/21 12:55	
Xylenes, Total	5.0 U	5.0	0.23	1	06/19/21 12:55	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/19/21 12:55	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/19/21 12:55	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/19/21 12:55	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/19/21 12:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107042-04	**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	06/19/21 12:55	
Dibromofluoromethane	99	80 - 116	06/19/21 12:55	
Toluene-d8	103	87 - 121	06/19/21 12:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107042-04	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107077-06	**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	06/21/21 13:03	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/21/21 13:03	
2-Butanone (MEK)	10 U	10	0.78	1	06/21/21 13:03	
2-Hexanone	10 U	10	0.20	1	06/21/21 13:03	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/21/21 13:03	
Acetone	10 U	10	5.0	1	06/21/21 13:03	
Benzene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
Bromoform	5.0 U	5.0	0.25	1	06/21/21 13:03	
Bromomethane	5.0 U	5.0	0.70	1	06/21/21 13:03	
Carbon Disulfide	10 U	10	0.42	1	06/21/21 13:03	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/21/21 13:03	
Chlorobenzene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Chloroethane	5.0 U	5.0	0.23	1	06/21/21 13:03	
Chloroform	5.0 U	5.0	0.24	1	06/21/21 13:03	
Chloromethane	5.0 U	5.0	0.28	1	06/21/21 13:03	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
Dichloromethane	5.0 U	5.0	0.65	1	06/21/21 13:03	
Ethylbenzene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Styrene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/21/21 13:03	
Toluene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/21/21 13:03	
Vinyl Acetate	10 U	10	1.1	1	06/21/21 13:03	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/21/21 13:03	
Xylenes, Total	5.0 U	5.0	0.23	1	06/21/21 13:03	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/21/21 13:03	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/21/21 13:03	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/21/21 13:03	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/21/21 13:03	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107077-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	06/21/21 13:03	
Dibromofluoromethane	94	80 - 116	06/21/21 13:03	
Toluene-d8	95	87 - 121	06/21/21 13:03	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107077-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.56	9.8	J

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/19/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107042-03

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	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	18.8	20.0	94	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.2	20.0	106	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	25.0	20.0	125 *	71-118
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
2-Butanone (MEK)	8260C	19.7	20.0	99	61-137
2-Hexanone	8260C	20.5	20.0	102	63-124
4-Methyl-2-pentanone	8260C	20.0	20.0	100	66-124
Acetone	8260C	15.5	20.0	78	40-161
Benzene	8260C	20.1	20.0	100	79-119
Bromodichloromethane	8260C	19.8	20.0	99	81-123
Bromoform	8260C	20.1	20.0	100	65-146
Bromomethane	8260C	19.1	20.0	96	42-166
Carbon Disulfide	8260C	22.2	20.0	111	66-128
Carbon Tetrachloride	8260C	21.1	20.0	106	70-127
Chlorobenzene	8260C	20.1	20.0	100	80-121
Chloroethane	8260C	20.8	20.0	104	62-131
Chloroform	8260C	20.7	20.0	103	79-120
Chloromethane	8260C	20.2	20.0	101	65-135
Dibromochloromethane	8260C	18.7	20.0	94	72-128
Dichloromethane	8260C	21.3	20.0	106	73-122
Ethylbenzene	8260C	19.7	20.0	98	76-120
Styrene	8260C	20.2	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	20.8	20.0	104	72-125
Toluene	8260C	20.0	20.0	100	79-119
Trichloroethene (TCE)	8260C	19.8	20.0	99	74-122
Vinyl Acetate	8260C	26.1	20.0	130	52-174
Vinyl Chloride	8260C	19.3	20.0	97	74-159
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	20.5	20.0	102	77-122
trans-1,2-Dichloroethene	8260C	23.1	20.0	116	73-118

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

Service Request: R2105782
Date Analyzed: 06/19/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107042-03

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/21/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107077-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.0	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	19.9	20.0	100	78-126
1,1,2-Trichloroethane	8260C	18.5	20.0	93	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.5	20.0	108	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	27.5	20.0	137 *	71-118
1,2-Dichloroethane	8260C	20.1	20.0	100	71-127
1,2-Dichloropropane	8260C	20.9	20.0	105	80-119
2-Butanone (MEK)	8260C	21.4	20.0	107	61-137
2-Hexanone	8260C	18.7	20.0	94	63-124
4-Methyl-2-pentanone	8260C	19.9	20.0	99	66-124
Acetone	8260C	16.9	20.0	85	40-161
Benzene	8260C	20.7	20.0	103	79-119
Bromodichloromethane	8260C	21.1	20.0	106	81-123
Bromoform	8260C	18.9	20.0	95	65-146
Bromomethane	8260C	18.9	20.0	94	42-166
Carbon Disulfide	8260C	25.7	20.0	129 *	66-128
Carbon Tetrachloride	8260C	20.5	20.0	103	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	22.3	20.0	112	62-131
Chloroform	8260C	21.3	20.0	106	79-120
Chloromethane	8260C	21.3	20.0	107	65-135
Dibromochloromethane	8260C	19.1	20.0	96	72-128
Dichloromethane	8260C	21.8	20.0	109	73-122
Ethylbenzene	8260C	19.3	20.0	96	76-120
Styrene	8260C	19.5	20.0	98	80-124
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	72-125
Toluene	8260C	19.9	20.0	100	79-119
Trichloroethene (TCE)	8260C	19.5	20.0	98	74-122
Vinyl Acetate	8260C	31.3	20.0	156	52-174
Vinyl Chloride	8260C	20.5	20.0	103	74-159
cis-1,2-Dichloroethene	8260C	22.5	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	77-122
trans-1,2-Dichloroethene	8260C	24.6	20.0	123 *	73-118

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

Service Request: R2105782
Date Analyzed: 06/21/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107077-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	21.9	20.0	109	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
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-060921-SG-007	R2105782-001	97	55	38
WG-9954-060921-SG-008	R2105782-003	90	45	33
WG-9954-060921-SG-009	R2105782-004	83	41	32
WG-9954-060921-SG-010	R2105782-005	92	41	34
WG-9954-060921-SG-011	R2105782-006	75	36	37
WG-9954-060921-SG-012	R2105782-007	73	36	37
WG-9954-060921-SG-013	R2105782-008	80	50	41
WG-9954-060921-SG-014	R2105782-009	74	41	39
WG-9954-060921-SG-015	R2105782-010	56	45	29
RB-9954-060921-SG-001	R2105782-011	89	49	41
Method Blank	RQ2106692-01	84	43	35
Method Blank	RQ2106773-01	90	53	47
Lab Control Sample	RQ2106692-02	100	74	49
Duplicate Lab Control Sample	RQ2106692-03	92	71	47
Lab Control Sample	RQ2106773-02	92	63	44
Duplicate Lab Control Sample	RQ2106773-03	92	67	48

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-060921-SG-007	R2105782-001	53	28	81
WG-9954-060921-SG-008	R2105782-003	43	24	72
WG-9954-060921-SG-009	R2105782-004	43	24	72
WG-9954-060921-SG-010	R2105782-005	45	24	80
WG-9954-060921-SG-011	R2105782-006	45	25	74
WG-9954-060921-SG-012	R2105782-007	45	25	59
WG-9954-060921-SG-013	R2105782-008	55	28	60
WG-9954-060921-SG-014	R2105782-009	47	25	63
WG-9954-060921-SG-015	R2105782-010	56	20	51
RB-9954-060921-SG-001	R2105782-011	54	29	83
Method Blank	RQ2106692-01	41	24	98
Method Blank	RQ2106773-01	61	31	86
Lab Control Sample	RQ2106692-02	71	36	104
Duplicate Lab Control Sample	RQ2106692-03	66	35	92
Lab Control Sample	RQ2106773-02	57	34	83
Duplicate Lab Control Sample	RQ2106773-03	65	36	89

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106692-01	**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	06/16/21 15:13	6/14/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
2,4-Dinitrophenol	50 U	50	20	1	06/16/21 15:13	6/14/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/16/21 15:13	6/14/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
2-Chlorophenol	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
2-Methylphenol	10 U	10	1.0	1	06/16/21 15:13	6/14/21	
2-Nitroaniline	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
2-Nitrophenol	10 U	10	1.5	1	06/16/21 15:13	6/14/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
3-Nitroaniline	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/16/21 15:13	6/14/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/16/21 15:13	6/14/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
4-Chloroaniline	10 U	10	1.0	1	06/16/21 15:13	6/14/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/16/21 15:13	6/14/21	
4-Nitroaniline	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
4-Nitrophenol	50 U	50	6.4	1	06/16/21 15:13	6/14/21	
Acenaphthene	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
Acenaphthylene	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
Anthracene	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
Benz(a)anthracene	10 U	10	1.6	1	06/16/21 15:13	6/14/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/16/21 15:13	6/14/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
Benzoic Acid	50 U	50	36	1	06/16/21 15:13	6/14/21	
Benzyl Alcohol	10 U	10	1.6	1	06/16/21 15:13	6/14/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/16/21 15:13	6/14/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/16/21 15:13	6/14/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
Chrysene	10 U	10	1.2	1	06/16/21 15:13	6/14/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106692-01	**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	1.7	1	06/16/21 15:13	6/14/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/16/21 15:13	6/14/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
Dibenzofuran	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
Diethyl Phthalate	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
Fluoranthene	10 U	10	1.5	1	06/16/21 15:13	6/14/21	
Fluorene	10 U	10	1.3	1	06/16/21 15:13	6/14/21	
Hexachlorobenzene	10 U	10	1.6	1	06/16/21 15:13	6/14/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/16/21 15:13	6/14/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/16/21 15:13	6/14/21	
Hexachloroethane	10 U	10	1.1	1	06/16/21 15:13	6/14/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/16/21 15:13	6/14/21	
Isophorone	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/16/21 15:13	6/14/21	
Naphthalene	10 U	10	1.2	1	06/16/21 15:13	6/14/21	
Nitrobenzene	10 U	10	1.5	1	06/16/21 15:13	6/14/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/16/21 15:13	6/14/21	
Phenanthrene	10 U	10	1.4	1	06/16/21 15:13	6/14/21	
Phenol	10 U	10	1.0	1	06/16/21 15:13	6/14/21	
Pyrene	10 U	10	1.5	1	06/16/21 15:13	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	06/16/21 15:13	
2-Fluorobiphenyl	43	31 - 118	06/16/21 15:13	
2-Fluorophenol	35	10 - 105	06/16/21 15:13	
Nitrobenzene-d5	41	31 - 110	06/16/21 15:13	
Phenol-d6	24	10 - 107	06/16/21 15:13	
p-Terphenyl-d14	98	10 - 165	06/16/21 15:13	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106773-01	**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	06/16/21 20:18	6/15/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
2,4-Dinitrophenol	50 U	50	20	1	06/16/21 20:18	6/15/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/16/21 20:18	6/15/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
2-Chlorophenol	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
2-Methylphenol	10 U	10	1.0	1	06/16/21 20:18	6/15/21	
2-Nitroaniline	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
2-Nitrophenol	10 U	10	1.5	1	06/16/21 20:18	6/15/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
3-Nitroaniline	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/16/21 20:18	6/15/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/16/21 20:18	6/15/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
4-Chloroaniline	10 U	10	1.0	1	06/16/21 20:18	6/15/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/16/21 20:18	6/15/21	
4-Nitroaniline	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
4-Nitrophenol	50 U	50	6.4	1	06/16/21 20:18	6/15/21	
Acenaphthene	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
Acenaphthylene	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
Anthracene	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
Benz(a)anthracene	10 U	10	1.6	1	06/16/21 20:18	6/15/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/16/21 20:18	6/15/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
Benzoic Acid	50 U	50	36	1	06/16/21 20:18	6/15/21	
Benzyl Alcohol	10 U	10	1.6	1	06/16/21 20:18	6/15/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/16/21 20:18	6/15/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/16/21 20:18	6/15/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
Chrysene	10 U	10	1.2	1	06/16/21 20:18	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106773-01	**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	1.7	1	06/16/21 20:18	6/15/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/16/21 20:18	6/15/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
Dibenzofuran	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
Diethyl Phthalate	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
Fluoranthene	10 U	10	1.5	1	06/16/21 20:18	6/15/21	
Fluorene	10 U	10	1.3	1	06/16/21 20:18	6/15/21	
Hexachlorobenzene	10 U	10	1.6	1	06/16/21 20:18	6/15/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/16/21 20:18	6/15/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/16/21 20:18	6/15/21	
Hexachloroethane	10 U	10	1.1	1	06/16/21 20:18	6/15/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/16/21 20:18	6/15/21	
Isophorone	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/16/21 20:18	6/15/21	
Naphthalene	10 U	10	1.2	1	06/16/21 20:18	6/15/21	
Nitrobenzene	10 U	10	1.5	1	06/16/21 20:18	6/15/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/16/21 20:18	6/15/21	
Phenanthrene	10 U	10	1.4	1	06/16/21 20:18	6/15/21	
Phenol	10 U	10	1.0	1	06/16/21 20:18	6/15/21	
Pyrene	10 U	10	1.5	1	06/16/21 20:18	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	06/16/21 20:18	
2-Fluorobiphenyl	53	31 - 118	06/16/21 20:18	
2-Fluorophenol	47	10 - 105	06/16/21 20:18	
Nitrobenzene-d5	61	31 - 110	06/16/21 20:18	
Phenol-d6	31	10 - 107	06/16/21 20:18	
p-Terphenyl-d14	86	10 - 165	06/16/21 20:18	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000142-82-5	Heptane	2.52	38	JN
	unknown	3.03	23	J
000095-49-8	Benzene, 1-chloro-2-methyl-	4.39	8.1	JN

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106692-02			RQ2106692-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	48.1	80.0	60	45.8	80.0	57	10-127	5	30
1,2-Dichlorobenzene	8270D	44.2	80.0	55	42.2	80.0	53	23-130	4	30
1,3-Dichlorobenzene	8270D	40.7	80.0	51	39.7	80.0	50	21-90	2	30
1,4-Dichlorobenzene	8270D	41.1	80.0	51	40.2	80.0	50	10-124	2	30
2,4,5-Trichlorophenol	8270D	77.3	80.0	97	74.2	80.0	93	48-134	4	30
2,4,6-Trichlorophenol	8270D	67.8	80.0	85	62.9	80.0	79	44-135	7	30
2,4-Dichlorophenol	8270D	60.0	80.0	75	57.4	80.0	72	48-127	4	30
2,4-Dimethylphenol	8270D	63.0	80.0	79	59.8	80.0	75	35-99	5	30
2,4-Dinitrophenol	8270D	76.8	80.0	96	73.1	80.0	91	21-154	5	30
2,4-Dinitrotoluene	8270D	75.9	80.0	95	69.3	80.0	87	54-130	9	30
2,6-Dinitrotoluene	8270D	85.4	80.0	107	82.1	80.0	103	51-127	4	30
2-Chloronaphthalene	8270D	63.0	80.0	79	60.0	80.0	75	40-108	5	30
2-Chlorophenol	8270D	49.1	80.0	61	47.5	80.0	59	42-112	3	30
2-Methylnaphthalene	8270D	61.8	80.0	77	58.5	80.0	73	34-102	5	30
2-Methylphenol	8270D	60.0	80.0	75	57.2	80.0	72	47-100	4	30
2-Nitroaniline	8270D	76.4	80.0	96	74.8	80.0	93	52-133	3	30
2-Nitrophenol	8270D	57.7	80.0	72	52.6	80.0	66	43-131	9	30
3,3'-Dichlorobenzidine	8270D	75.7	80.0	95	73.7	80.0	92	43-126	3	30
3- and 4-Methylphenol Coelution	8270D	59.4	80.0	74	56.8	80.0	71	40-92	4	30
3-Nitroaniline	8270D	65.6	80.0	82	61.7	80.0	77	42-111	6	30
4,6-Dinitro-2-methylphenol	8270D	77.0	80.0	96	72.8	80.0	91	36-152	5	30
4-Bromophenyl Phenyl Ether	8270D	84.2	80.0	105	85.3	80.0	107	48-114	2	30
4-Chloro-3-methylphenol	8270D	67.2	80.0	84	64.9	80.0	81	52-113	4	30
4-Chloroaniline	8270D	63.3	80.0	79	62.2	80.0	78	44-109	1	30
4-Chlorophenyl Phenyl Ether	8270D	77.6	80.0	97	75.1	80.0	94	51-107	3	30
4-Nitroaniline	8270D	65.0	80.0	81	62.8	80.0	78	54-133	4	30
4-Nitrophenol	8270D	41.7 J	80.0	52	38.6 J	80.0	48	10-126	8	30
Acenaphthene	8270D	69.5	80.0	87	65.7	80.0	82	52-107	6	30
Acenaphthylene	8270D	73.1	80.0	91	69.2	80.0	87	55-109	4	30
Anthracene	8270D	76.6	80.0	96	73.1	80.0	91	55-116	5	30
Benz(a)anthracene	8270D	73.4	80.0	92	70.1	80.0	88	61-121	4	30
Benzo(a)pyrene	8270D	82.8	80.0	104	78.4	80.0	98	44-114	6	30
Benzo(b)fluoranthene	8270D	72.1	80.0	90	70.6	80.0	88	62-115	2	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106692-02			RQ2106692-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	74.6	80.0	93	70.0	80.0	88	63-136	6	30
Benzo(k)fluoranthene	8270D	80.6	80.0	101	76.4	80.0	95	49-133	6	30
Benzoic Acid	8270D	56.3	120	47	61.9	120	52	10-94	10	30
Benzyl Alcohol	8270D	67.7	80.0	85	68.9	80.0	86	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	64.8	80.0	81	62.4	80.0	78	32-122	4	30
Bis(2-chloroethoxy)methane	8270D	83.2	80.0	104	78.9	80.0	99	55-110	5	30
Bis(2-chloroethyl) Ether	8270D	58.4	80.0	73	55.2	80.0	69	46-102	6	30
Bis(2-ethylhexyl) Phthalate	8270D	83.8	80.0	105	81.7	80.0	102	51-132	3	30
Butyl Benzyl Phthalate	8270D	81.3	80.0	102	77.9	80.0	97	41-148	5	30
Chrysene	8270D	76.4	80.0	95	72.2	80.0	90	57-118	5	30
Di-n-butyl Phthalate	8270D	105	80.0	131 *	102	80.0	127	57-128	3	30
Di-n-octyl Phthalate	8270D	91.3	80.0	114	89.4	80.0	112	62-124	2	30
Dibenz(a,h)anthracene	8270D	72.0	80.0	90	68.3	80.0	85	54-135	6	30
Dibenzofuran	8270D	71.8	80.0	90	68.7	80.0	86	55-110	5	30
Diethyl Phthalate	8270D	66.7	80.0	83	62.9	80.0	79	53-113	5	30
Dimethyl Phthalate	8270D	78.7	80.0	98	76.7	80.0	96	51-112	2	30
Fluoranthene	8270D	88.5	80.0	111	85.2	80.0	106	66-127	5	30
Fluorene	8270D	76.9	80.0	96	73.7	80.0	92	54-106	4	30
Hexachlorobenzene	8270D	87.2	80.0	109	86.2	80.0	108	53-123	<1	30
Hexachlorobutadiene	8270D	48.7	80.0	61	47.2	80.0	59	16-95	3	30
Hexachlorocyclopentadiene	8270D	32.3	80.0	40	33.5	80.0	42	10-99	5	30
Hexachloroethane	8270D	41.5	80.0	52	41.5	80.0	52	15-92	<1	30
Indeno(1,2,3-cd)pyrene	8270D	73.2	80.0	92	68.9	80.0	86	62-137	7	30
Isophorone	8270D	73.0	80.0	91	70.9	80.0	89	50-116	2	30
N-Nitrosodi-n-propylamine	8270D	65.4	80.0	82	62.7	80.0	78	49-115	5	30
N-Nitrosodiphenylamine	8270D	80.7	80.0	101	76.3	80.0	95	45-123	6	30
Naphthalene	8270D	55.3	80.0	69	52.0	80.0	65	38-99	6	30
Nitrobenzene	8270D	60.5	80.0	76	55.6	80.0	70	46-108	8	30
Pentachlorophenol (PCP)	8270D	104	80.0	130	101	80.0	127	29-164	2	30
Phenanthrene	8270D	74.3	80.0	93	70.1	80.0	88	58-118	6	30
Phenol	8270D	30.3	80.0	38	30.8	80.0	38	10-113	<1	30
Pyrene	8270D	73.5	80.0	92	69.8	80.0	87	61-122	6	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106773-02			RQ2106773-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	38.4	80.0	48	44.8	80.0	56	10-127	15	30
1,2-Dichlorobenzene	8270D	35.0	80.0	44	42.0	80.0	52	23-130	17	30
1,3-Dichlorobenzene	8270D	33.8	80.0	42	40.0	80.0	50	21-90	17	30
1,4-Dichlorobenzene	8270D	33.6	80.0	42	39.7	80.0	50	10-124	17	30
2,4,5-Trichlorophenol	8270D	73.1	80.0	91	76.1	80.0	95	48-134	4	30
2,4,6-Trichlorophenol	8270D	65.4	80.0	82	66.7	80.0	83	44-135	1	30
2,4-Dichlorophenol	8270D	51.9	80.0	65	58.2	80.0	73	48-127	12	30
2,4-Dimethylphenol	8270D	56.3	80.0	70	59.2	80.0	74	35-99	6	30
2,4-Dinitrophenol	8270D	73.3	80.0	92	75.4	80.0	94	21-154	2	30
2,4-Dinitrotoluene	8270D	76.2	80.0	95	78.0	80.0	97	54-130	2	30
2,6-Dinitrotoluene	8270D	83.7	80.0	105	83.8	80.0	105	51-127	<1	30
2-Chloronaphthalene	8270D	56.4	80.0	70	59.4	80.0	74	40-108	6	30
2-Chlorophenol	8270D	41.3	80.0	52	49.3	80.0	62	42-112	18	30
2-Methylnaphthalene	8270D	53.2	80.0	67	59.4	80.0	74	34-102	10	30
2-Methylphenol	8270D	55.2	80.0	69	59.0	80.0	74	47-100	7	30
2-Nitroaniline	8270D	79.7	80.0	100	83.0	80.0	104	52-133	4	30
2-Nitrophenol	8270D	47.3	80.0	59	56.9	80.0	71	43-131	18	30
3,3'-Dichlorobenzidine	8270D	73.2	80.0	91	76.1	80.0	95	43-126	4	30
3- and 4-Methylphenol Coelution	8270D	57.3	80.0	72	59.9	80.0	75	40-92	4	30
3-Nitroaniline	8270D	64.6	80.0	81	68.3	80.0	85	42-111	5	30
4,6-Dinitro-2-methylphenol	8270D	70.2	80.0	88	74.2	80.0	93	36-152	6	30
4-Bromophenyl Phenyl Ether	8270D	80.2	80.0	100	82.1	80.0	103	48-114	3	30
4-Chloro-3-methylphenol	8270D	67.3	80.0	84	70.4	80.0	88	52-113	5	30
4-Chloroaniline	8270D	61.1	80.0	76	63.8	80.0	80	44-109	5	30
4-Chlorophenyl Phenyl Ether	8270D	73.8	80.0	92	74.8	80.0	94	51-107	2	30
4-Nitroaniline	8270D	66.3	80.0	83	67.5	80.0	84	54-133	1	30
4-Nitrophenol	8270D	40.6 J	80.0	51	43.0 J	80.0	54	10-126	6	30
Acenaphthene	8270D	65.5	80.0	82	66.6	80.0	83	52-107	1	30
Acenaphthylene	8270D	67.2	80.0	84	71.0	80.0	89	55-109	6	30
Anthracene	8270D	74.3	80.0	93	75.7	80.0	95	55-116	2	30
Benz(a)anthracene	8270D	71.4	80.0	89	73.7	80.0	92	61-121	3	30
Benzo(a)pyrene	8270D	79.5	80.0	99	81.6	80.0	102	44-114	3	30
Benzo(b)fluoranthene	8270D	71.7	80.0	90	75.1	80.0	94	62-115	4	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106773-02			RQ2106773-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	74.8	80.0	93	78.4	80.0	98	63-136	5	30
Benzo(k)fluoranthene	8270D	76.2	80.0	95	80.1	80.0	100	49-133	5	30
Benzoic Acid	8270D	60.9	120	51	58.3	120	49	10-94	4	30
Benzyl Alcohol	8270D	70.1	80.0	88	72.6	80.0	91	31-109	3	30
2,2'-Oxybis(1-chloropropane)	8270D	57.4	80.0	72	67.0	80.0	84	32-122	15	30
Bis(2-chloroethoxy)methane	8270D	75.1	80.0	94	82.9	80.0	104	55-110	10	30
Bis(2-chloroethyl) Ether	8270D	49.5	80.0	62	56.7	80.0	71	46-102	14	30
Bis(2-ethylhexyl) Phthalate	8270D	85.5	80.0	107	86.2	80.0	108	51-132	<1	30
Butyl Benzyl Phthalate	8270D	80.4	80.0	100	83.2	80.0	104	41-148	4	30
Chrysene	8270D	74.0	80.0	92	76.6	80.0	96	57-118	4	30
Di-n-butyl Phthalate	8270D	103	80.0	128	105	80.0	131 *	57-128	2	30
Di-n-octyl Phthalate	8270D	95.2	80.0	119	95.6	80.0	120	62-124	<1	30
Dibenz(a,h)anthracene	8270D	72.0	80.0	90	75.1	80.0	94	54-135	4	30
Dibenzofuran	8270D	68.3	80.0	85	70.3	80.0	88	55-110	3	30
Diethyl Phthalate	8270D	67.3	80.0	84	70.4	80.0	88	53-113	5	30
Dimethyl Phthalate	8270D	78.1	80.0	98	78.3	80.0	98	51-112	<1	30
Fluoranthene	8270D	85.3	80.0	107	86.6	80.0	108	66-127	<1	30
Fluorene	8270D	74.2	80.0	93	76.2	80.0	95	54-106	2	30
Hexachlorobenzene	8270D	81.0	80.0	101	82.7	80.0	103	53-123	2	30
Hexachlorobutadiene	8270D	39.7	80.0	50	45.1	80.0	56	16-95	11	30
Hexachlorocyclopentadiene	8270D	25.3	80.0	32	25.6	80.0	32	10-99	<1	30
Hexachloroethane	8270D	33.8	80.0	42	38.5	80.0	48	15-92	13	30
Indeno(1,2,3-cd)pyrene	8270D	74.4	80.0	93	75.9	80.0	95	62-137	2	30
Isophorone	8270D	69.4	80.0	87	73.0	80.0	91	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	60.2	80.0	75	65.7	80.0	82	49-115	9	30
N-Nitrosodiphenylamine	8270D	76.4	80.0	96	75.6	80.0	94	45-123	2	30
Naphthalene	8270D	45.3	80.0	57	51.9	80.0	65	38-99	13	30
Nitrobenzene	8270D	50.4	80.0	63	59.1	80.0	74	46-108	16	30
Pentachlorophenol (PCP)	8270D	90.2	80.0	113	90.8	80.0	113	29-164	<1	30
Phenanthrene	8270D	71.5	80.0	89	74.1	80.0	93	58-118	4	30
Phenol	8270D	31.2	80.0	39	32.7	80.0	41	10-113	5	30
Pyrene	8270D	71.8	80.0	90	75.2	80.0	94	61-122	4	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-060921-SG-007	R2105782-001	46	48
WG-9954-060921-SG-008	R2105782-003	17	48
WG-9954-060921-SG-009	R2105782-004	29	34
WG-9954-060921-SG-010	R2105782-005	22	42
WG-9954-060921-SG-011	R2105782-006	24	34
WG-9954-060921-SG-012	R2105782-007	25	40
WG-9954-060921-SG-013	R2105782-008	20	45
WG-9954-060921-SG-014	R2105782-009	17	44
WG-9954-060921-SG-015	R2105782-010	24	212*
WG-9954-060921-SG-015 DL	R2105782-010	31	338*
RB-9954-060921-SG-001	R2105782-011	21	51
Method Blank	RQ2106691-01	64	56
Method Blank	RQ2106772-03	59	46
Method Blank	RQ2106772-03	59	48
Method Blank	RQ2107209-01	52	58
Method Blank	RQ2107209-01	50	60
Lab Control Sample	RQ2106691-02	57	50
Duplicate Lab Control Sample	RQ2106691-03	60	52
Lab Control Sample	RQ2106772-04	57	44
Lab Control Sample	RQ2106772-04	58	46
Duplicate Lab Control Sample	RQ2106772-05	60	51
Duplicate Lab Control Sample	RQ2106772-05	65	54
Lab Control Sample	RQ2107209-02	53	47
Lab Control Sample	RQ2107209-02	52	52
Duplicate Lab Control Sample	RQ2107209-03	56	51
Duplicate Lab Control Sample	RQ2107209-03	52	51
WG-9954-060921-SG-007 MS	RQ2106691-04	44	49
WG-9954-060921-SG-007 DMS	RQ2106691-05	42	61

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/09/21
Sample Matrix:	Water	**Date Received:**	06/10/21
		Date Analyzed:	06/16/21
		Date Extracted:	06/14/21

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-060921-SG-007	**Units:**	ug/L
Lab Code:	R2105782-001	**Basis:**	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2106691-04			**Duplicate Matrix Spike** RQ2106691-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.045 U	0.252	0.364	69	0.252	0.364	69	38-157	<1	30
4,4'-DDE	0.045 U	0.242	0.364	67	0.233	0.364	64	10-200	4	30
4,4'-DDT	0.045 U	0.257	0.364	71	0.252	0.364	69	19-154	2	30
Aldrin	0.045 U	0.206	0.364	57	0.221	0.364	61	26-149	7	30
Dieldrin	0.045 U	0.278	0.364	76	0.276	0.364	76	41-164	<1	30
Endosulfan I	0.045 U	0.273	0.364	75	0.274	0.364	75	47-149	<1	30
Endosulfan II	0.045 U	0.281	0.364	77	0.280	0.364	77	51-148	<1	30
Endosulfan Sulfate	0.045 U	0.272	0.364	75	0.274	0.364	75	10-170	<1	30
Endrin	0.045 U	0.293	0.364	81	0.294	0.364	81	48-165	<1	30
Endrin Ketone	0.045 U	0.282	0.364	78	0.285	0.364	78	48-162	1	30
Heptachlor	0.045 U	0.248	0.364	68	0.258	0.364	71	29-168	4	30
Heptachlor Epoxide	0.045 U	0.281	0.364	77	0.282	0.364	77	29-180	<1	30
Methoxychlor	0.045 U	0.279	0.364	77	0.285	0.364	78	38-162	2	30
alpha-BHC	0.045 U	0.252	0.364	69	0.262	0.364	72	27-154	4	30
alpha-Chlordane	0.045 U	0.266	0.364	73	0.265	0.364	73	35-160	<1	30
beta-BHC	0.045 U	0.280	0.364	77	0.280	0.364	77	32-184	<1	30
delta-BHC	0.045 U	0.263	0.364	72	0.266	0.364	73	10-182	1	30
gamma-BHC (Lindane)	0.045 U	0.262	0.364	72	0.268	0.364	74	43-164	2	30
gamma-Chlordane	0.045 U	0.259	0.364	71	0.259	0.364	71	35-165	<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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106691-01	**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	06/16/21 13:18	6/14/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Aldrin	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Dieldrin	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endrin	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Heptachlor	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 13:18	6/14/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
beta-BHC	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
delta-BHC	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/16/21 13:18	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 164	06/16/21 13:18	
Tetrachloro-m-xylene	56	10 - 147	06/16/21 13:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**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	06/16/21 20:37	6/15/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Aldrin	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Dieldrin	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endrin	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Heptachlor	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/16/21 20:37	6/15/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
beta-BHC	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
delta-BHC	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/16/21 20:37	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/16/21 20:37	
Tetrachloro-m-xylene	46	10 - 147	06/16/21 20:37	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**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	06/18/21 20:21	6/15/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Aldrin	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Dieldrin	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endrin	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Heptachlor	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/18/21 20:21	6/15/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
beta-BHC	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
delta-BHC	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/18/21 20:21	
Tetrachloro-m-xylene	48	10 - 147	06/18/21 20:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**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	06/24/21 22:45	6/23/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Aldrin	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Dieldrin	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endrin	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Heptachlor	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/24/21 22:45	6/23/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
beta-BHC	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
delta-BHC	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 164	06/24/21 22:45	
Tetrachloro-m-xylene	58	10 - 147	06/24/21 22:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**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	06/25/21 21:41	6/23/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Aldrin	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Dieldrin	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endrin	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Heptachlor	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 21:41	6/23/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
beta-BHC	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
delta-BHC	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 164	06/25/21 21:41	
Tetrachloro-m-xylene	60	10 - 147	06/25/21 21:41	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106691-02			RQ2106691-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.279	0.400	70	0.272	0.400	68	42-159	3	30
4,4'-DDE	8081B	0.274	0.400	69	0.276	0.400	69	47-147	<1	30
4,4'-DDT	8081B	0.302	0.400	75	0.304	0.400	76	41-149	<1	30
Aldrin	8081B	0.212	0.400	53	0.223	0.400	56	22-137	5	30
Dieldrin	8081B	0.290	0.400	73	0.291	0.400	73	52-144	<1	30
Endosulfan I	8081B	0.284	0.400	71	0.285	0.400	71	52-136	<1	30
Endosulfan II	8081B	0.293	0.400	73	0.294	0.400	73	57-138	<1	30
Endosulfan Sulfate	8081B	0.291	0.400	73	0.291	0.400	73	34-156	<1	30
Endrin	8081B	0.307	0.400	77	0.309	0.400	77	56-143	<1	30
Endrin Ketone	8081B	0.306	0.400	76	0.305	0.400	76	59-143	<1	30
Heptachlor	8081B	0.243	0.400	61	0.259	0.400	65	32-141	6	30
Heptachlor Epoxide	8081B	0.290	0.400	72	0.292	0.400	73	51-143	<1	30
Methoxychlor	8081B	0.325	0.400	81	0.310	0.400	78	56-149	5	30
alpha-BHC	8081B	0.266	0.400	67	0.261	0.400	65	36-151	2	30
alpha-Chlordane	8081B	0.279	0.400	70	0.282	0.400	70	50-139	<1	30
beta-BHC	8081B	0.291	0.400	73	0.286	0.400	72	55-149	2	30
delta-BHC	8081B	0.279	0.400	70	0.278	0.400	69	29-159	<1	30
gamma-BHC (Lindane)	8081B	0.277	0.400	69	0.273	0.400	68	41-149	1	30
gamma-Chlordane	8081B	0.273	0.400	68	0.273	0.400	68	50-140	<1	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106772-04			RQ2106772-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.257	0.400	64	0.259	0.400	65	42-159	<1	30
4,4'-DDE	8081B	0.255	0.400	64	0.265	0.400	66	47-147	4	30
4,4'-DDT	8081B	0.281	0.400	70	0.291	0.400	73	41-149	3	30
Aldrin	8081B	0.201	0.400	50	0.224	0.400	56	22-137	10	30
Dieldrin	8081B	0.281	0.400	70	0.294	0.400	73	52-144	4	30
Endosulfan I	8081B	0.274	0.400	68	0.286	0.400	72	52-136	5	30
Endosulfan II	8081B	0.282	0.400	71	0.289	0.400	72	57-138	2	30
Endosulfan Sulfate	8081B	0.281	0.400	70	0.285	0.400	71	34-156	1	30
Endrin	8081B	0.294	0.400	74	0.306	0.400	76	56-143	4	30
Endrin Ketone	8081B	0.297	0.400	74	0.300	0.400	75	59-143	1	30
Heptachlor	8081B	0.234	0.400	59	0.252	0.400	63	32-141	7	30
Heptachlor Epoxide	8081B	0.279	0.400	70	0.292	0.400	73	51-143	4	30
Methoxychlor	8081B	0.291	0.400	73	0.278	0.400	69	56-149	5	30
alpha-BHC	8081B	0.252	0.400	63	0.261	0.400	65	36-151	3	30
alpha-Chlordane	8081B	0.266	0.400	66	0.283	0.400	71	50-139	6	30
beta-BHC	8081B	0.281	0.400	70	0.278	0.400	70	55-149	<1	30
delta-BHC	8081B	0.266	0.400	66	0.267	0.400	67	29-159	<1	30
gamma-BHC (Lindane)	8081B	0.262	0.400	66	0.264	0.400	66	41-149	<1	30
gamma-Chlordane	8081B	0.253	0.400	63	0.270	0.400	68	50-140	6	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107209-02			RQ2107209-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.238	0.400	59	0.254	0.400	63	42-159	7	30
4,4'-DDE	8081B	0.235	0.400	59	0.252	0.400	63	47-147	7	30
4,4'-DDT	8081B	0.268	0.400	67	0.287	0.400	72	41-149	7	30
Aldrin	8081B	0.185	0.400	46	0.201	0.400	50	22-137	8	30
Dieldrin	8081B	0.245	0.400	61	0.263	0.400	66	52-144	7	30
Endosulfan I	8081B	0.236	0.400	59	0.254	0.400	63	52-136	7	30
Endosulfan II	8081B	0.248	0.400	62	0.267	0.400	67	57-138	7	30
Endosulfan Sulfate	8081B	0.266	0.400	66	0.286	0.400	72	34-156	7	30
Endrin	8081B	0.261	0.400	65	0.279	0.400	70	56-143	7	30
Endrin Ketone	8081B	0.261	0.400	65	0.279	0.400	70	59-143	7	30
Heptachlor	8081B	0.218	0.400	55	0.236	0.400	59	32-141	8	30
Heptachlor Epoxide	8081B	0.245	0.400	61	0.263	0.400	66	51-143	7	30
Methoxychlor	8081B	0.273	0.400	68	0.293	0.400	73	56-149	7	30
alpha-BHC	8081B	0.241	0.400	60	0.256	0.400	64	36-151	6	30
alpha-Chlordane	8081B	0.241	0.400	60	0.258	0.400	65	50-139	7	30
beta-BHC	8081B	0.254	0.400	64	0.274	0.400	69	55-149	8	30
delta-BHC	8081B	0.246	0.400	61	0.264	0.400	66	29-159	7	30
gamma-BHC (Lindane)	8081B	0.236	0.400	59	0.255	0.400	64	41-149	8	30
gamma-Chlordane	8081B	0.231	0.400	58	0.248	0.400	62	50-140	7	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-060921-SG-007	R2105782-001	53	51
WG-9954-060921-SG-008	R2105782-003	18	55
WG-9954-060921-SG-009	R2105782-004	41	40
WG-9954-060921-SG-010	R2105782-005	29	50
WG-9954-060921-SG-011	R2105782-006	30	38
WG-9954-060921-SG-012	R2105782-007	35	47
WG-9954-060921-SG-013	R2105782-008	27	53
WG-9954-060921-SG-014	R2105782-009	26	52
WG-9954-060921-SG-015	R2105782-010	34	72
RB-9954-060921-SG-001	R2105782-011	27	61
Method Blank	RQ2106691-01	59	53
Method Blank	RQ2106772-03	81	57
Lab Control Sample	RQ2106691-02	53	43
Duplicate Lab Control Sample	RQ2106691-03	58	45
Lab Control Sample	RQ2106772-04	88	65
Duplicate Lab Control Sample	RQ2106772-05	92	61

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106691-01	**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	06/17/21 10:28	6/14/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/17/21 10:28	6/14/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/17/21 10:28	6/14/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 152	06/17/21 10:28	
Tetrachloro-m-xylene	53	14 - 129	06/17/21 10:28	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105782
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**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	06/17/21 23:49	6/15/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/17/21 23:49	6/15/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	81	10 - 152	06/17/21 23:49	
Tetrachloro-m-xylene	57	14 - 129	06/17/21 23:49	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2106691-02			RQ2106691-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.17	4.00	54	2.46	4.00	61	49-123	12	30
Aroclor 1260	8082A	2.58	4.00	64	2.87	4.00	72	30-120	11	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105782
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/18/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample RQ2106772-04			Duplicate Lab Control Sample RQ2106772-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	3.46	4.00	87	3.48	4.00	87	49-123	<1	30
Aroclor 1260	8082A	3.91	4.00	98	4.24	4.00	106	30-120	8	30

June 29, 2021 Service Request No:R2105855

Ms. Kathy Willy
GHD
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 11, 2021
For your reference, these analyses have been assigned our service request number **R2105855.**

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

ALS Environmental

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/11/2021
Sample Matrix: Water

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 06/11/2021. 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, 06/17/2021: 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.

Semivoa GC:

The RPD between the MS and the MSD was greater than the RPD limit. Matrix Spike (MS) recovery was high for one compound. Duplicate Matrix Spike (DMS), Laboratory Control Sample (LCS), and Duplicate Laboratory Control Sample (DLCS) were within recovery limits. No further action was taken.
The sample extract(s) required cleanup with TBA (Tetrabutylammonium sulfate) to reduce analytical interference from sulfur. Lower analyte recovery is common with samples that undergo additional cleanup. Gamma-BHC was recovery was low for the Matrix spike (MS) and Duplicate Matrix Spike (DMS). Recovery was acceptable for other batch QC that also underwent the additional cleanup. No further action is necessary.
Method 8082A, 06/19/2021: 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, 06/18/2021: 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, 06/18/2021: 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.

Volatiles by GC/MS:

Method 8260C, 06/18/2021: 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, 06/18/2021: 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, 06/18/2021: 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.

Approved by  Date 06/29/2021

ALS Environmental

Approved by  Date 06/29/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: TB-9954-061021-SG-003			Lab ID: R2105855-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	7.6	J	5.0	10	ug/L	8260C
Chloromethane	0.41	BJ	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-061021-SG-016			Lab ID: R2105855-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
4-Methyl-2-pentanone	1.6	J	0.20	10	ug/L	8260C
Carbon Disulfide	3.5	J	0.42	10	ug/L	8260C
Toluene	0.42	J	0.20	5.0	ug/L	8260C
Xylenes, Total	0.49	J	0.23	5.0	ug/L	8260C
alpha-BHC	0.042	J	0.020	0.045	ug/L	8081B
delta-BHC	0.28		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.090		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061021-SG-017			Lab ID: R2105855-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	4.0	J	0.42	10	ug/L	8260C
Aldrin	0.038	J	0.020	0.045	ug/L	8081B
alpha-BHC	0.12		0.020	0.045	ug/L	8081B
delta-BHC	0.18		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.26		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061021-SG-018			Lab ID: R2105855-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	3.4	J	0.42	10	ug/L	8260C
alpha-BHC	0.10		0.020	0.045	ug/L	8081B
beta-BHC	0.037	JP	0.020	0.045	ug/L	8081B
delta-BHC	0.16		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.12		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061021-SG-019			Lab ID: R2105855-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	3.5	J	0.42	10	ug/L	8260C
alpha-BHC	0.026	J	0.020	0.045	ug/L	8081B
delta-BHC	0.17		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.073		0.020	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) **Service Request:**R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2105855-001	TB-9954-061021-SG-003	6/10/2021	1015
R2105855-002	WG-9954-061021-SG-016	6/10/2021	1055
R2105855-003	WG-9954-061021-SG-017	6/10/2021	1155
R2105855-004	WG-9954-061021-SG-018	6/10/2021	1250
R2105855-005	WG-9954-061021-SG-019	6/10/2021	1345

CHAIN OF CUSTODY RECORD

COC Number:

ADDRESS: 2055 NIAGARA FALLS BLVD N FALLS PAGE 1 OF 1

PHONE: FAX:

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /D:			Total # of Containers: ~~151~~ (36) 45

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Sample Type: Grab (G) or Comp (C)	Sample Type: Filtered (Y/N)	Analysis Requested: VOC	Analysis Requested: SVOC	Analysis Requested: PEST/PCB	Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	TB-9954-061021-SG-003	06/10/21	10:15	W	G	N	X			3		
2	WG-9954-061021-SG-016	06/10/21	10:55	W	G	N	X	X	X	7		
3	WG-9954-061021-SG-017	06/10/21	11:55	W	G	N	X	X	X	21	X	
4	WG-9954-061021-SG-018	06/10/21	12:50	W	G	N	X	X	X	7		
5	WG-9954-061021-SG-019	06/10/21	13:45	W	G	N	X	X	X	7		
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

R2105855 5

GHD

Love Canal:292-402-D02-3100

TAT Required in business days (use separate COCs fro different TATs)

(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time	Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/10/21	1500	1	ALS	6-11-21	10:20
2					2			
3					3			

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

T030477

ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-6475
www.alsglobal.com

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

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

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8081B / Pest OC	7D 8082A / PCB	7D 8270D / SVO	14D 8260C / VOC FP	1	2	3	4	5	Remarks
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 Cilibration Summaries

X 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

R2105855 5
GHD
Love Canal:292-402-D02-3100

Cooler Receipt and Preservation Check Form

Project/Client GHD Folder Number

Cooler received on 6-11-21 by: KE

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: 6-11-21 Time: 1014 ID: IR#7 (IR#11) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	2.1						
Within 0-6°C?	(Y) 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 6-11-21 at 1053

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/14/21 Time: 1006 by:

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 Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		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: 2596, 76626-C2715

Explain all Discrepancies/ Other Comments:

* Trip Blank: 1 of 3 vials

WG-9954-061021-SG-016: 1 of 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.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105855-001.01					
	8260C				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
		6/17/2021	1334	In Lab / FNAEGLER	
		6/17/2021	1341	R-001-S08 / FNAEGLER	
R2105855-001.02					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-001.03					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-002.01					
	8081B				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-002.02					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-002.03					
	8260C				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
		6/17/2021	1334	In Lab / FNAEGLER	
		6/17/2021	1341	R-001-S08 / FNAEGLER	
		6/18/2021	1348	In Lab / FNAEGLER	
		6/18/2021	1352	R-001-S08 / FNAEGLER	
R2105855-002.04					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-002.05					
	8270D				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-002.06					

Client: GHD **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-002.07					
	8082A				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0824	In Lab / VSTAUFFER	
R2105855-003.01					
	8081B				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-003.02					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.03					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.04					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.05					
	8270D				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0822	In Lab / VSTAUFFER	
R2105855-003.06					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-003.07					
	8082A				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/15/2021	0806	In Lab / VSTAUFFER	
R2105855-003.08					

Client: GHD **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-003.09					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-003.10					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/15/2021	0806	In Lab / VSTAUFFER	
R2105855-003.11					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105855-003.12					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105855-003.13					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/15/2021	0807	In Lab / VSTAUFFER	
R2105855-003.14					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0822	In Lab / VSTAUFFER	
R2105855-003.15					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-003.16					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	

Client: GHD **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105855-003.17					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.18					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.19					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.20					
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-003.21					
	8260C				
		6/14/2021	1024	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
		6/17/2021	1334	In Lab / FNAEGLER	
		6/17/2021	1341	R-001-S08 / FNAEGLER	
		6/18/2021	1348	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
R2105855-004.01					
	8081B				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-004.02					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-004.03					
	8260C				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
		6/17/2021	1334	In Lab / FNAEGLER	
		6/17/2021	1341	R-001-S08 / FNAEGLER	
		6/18/2021	1348	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	

Client: GHD **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105855-004.04					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-004.05					
	8270D				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-004.06					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-004.07					
	8082A				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-005.01					
	8081B				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-005.02					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-005.03					
	8260C				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
		6/17/2021	1334	In Lab / FNAEGLER	
		6/17/2021	1341	R-001-S08 / FNAEGLER	
		6/18/2021	1348	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
R2105855-005.04					
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-001 / GESMERIAN	
R2105855-005.05					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
R2105855-005.06					
	8270D				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105855-005.07					
	8082A				
		6/14/2021	1017	SMO / GESMERIAN	
		6/14/2021	1024	R-002 / GESMERIAN	
		6/16/2021	0823	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
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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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 Certifications[1]

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 laboratoryôs 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.

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: TB-9954-061021-SG-003 **Date Collected:** 06/10/21
Lab Code: R2105855-001 **Date Received:** 06/11/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: WG-9954-061021-SG-016 **Date Collected:** 06/10/21
Lab Code: R2105855-002 **Date Received:** 06/11/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061021-SG-017 **Date Collected:** 06/10/21
Lab Code: R2105855-003 **Date Received:** 06/11/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061021-SG-018 **Date Collected:** 06/10/21
Lab Code: R2105855-004 **Date Received:** 06/11/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061021-SG-019	**Date Collected:**	06/10/21
Lab Code:	R2105855-005	**Date Received:**	06/11/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:15
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	TB-9954-061021-SG-003	**Units:**	ug/L
Lab Code:	R2105855-001	**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	06/18/21 05:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 05:31	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 05:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 05:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 05:31	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 05:31	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 05:31	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 05:31	
2-Hexanone	10 U	10	0.20	1	06/18/21 05:31	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 05:31	
Acetone	**7.6 J**	10	5.0	1	06/18/21 05:31	
Benzene	5.0 U	5.0	0.20	1	06/18/21 05:31	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 05:31	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 05:31	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 05:31	
Carbon Disulfide	10 U	10	0.42	1	06/18/21 05:31	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 05:31	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 05:31	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 05:31	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 05:31	
Chloromethane	**0.41 BJ**	5.0	0.28	1	06/18/21 05:31	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 05:31	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 05:31	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 05:31	
Styrene	5.0 U	5.0	0.20	1	06/18/21 05:31	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 05:31	
Toluene	5.0 U	5.0	0.20	1	06/18/21 05:31	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 05:31	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 05:31	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 05:31	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 05:31	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 05:31	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 05:31	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 05:31	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 05:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:15
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	TB-9954-061021-SG-003	**Units:**	ug/L
Lab Code:	R2105855-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/18/21 05:31	
Dibromofluoromethane	97	80 - 116	06/18/21 05:31	
Toluene-d8	104	87 - 121	06/18/21 05:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:15
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	TB-9954-061021-SG-003	**Units:**	ug/L
Lab Code:	R2105855-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
001825-61-2	Silane, methoxytrimethyl-	2.51	18.6	JN
001066-40-6	Silanol, trimethyl-	3.79	6.7	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	06/18/21 18:21	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 18:21	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 18:21	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 18:21	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 18:21	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 18:21	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 18:21	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 18:21	
2-Hexanone	10 U	10	0.20	1	06/18/21 18:21	
4-Methyl-2-pentanone	**1.6 J**	10	0.20	1	06/18/21 18:21	
Acetone	10 U	10	5.0	1	06/18/21 18:21	
Benzene	5.0 U	5.0	0.20	1	06/18/21 18:21	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 18:21	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 18:21	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 18:21	
Carbon Disulfide	**3.5 J**	10	0.42	1	06/18/21 18:21	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 18:21	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 18:21	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 18:21	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 18:21	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 18:21	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 18:21	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 18:21	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 18:21	
Styrene	5.0 U	5.0	0.20	1	06/18/21 18:21	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 18:21	
Toluene	**0.42 J**	5.0	0.20	1	06/18/21 18:21	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 18:21	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 18:21	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 18:21	
Xylenes, Total	**0.49 J**	5.0	0.23	1	06/18/21 18:21	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 18:21	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 18:21	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 18:21	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 18:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	06/18/21 18:21	
Dibromofluoromethane	102	80 - 116	06/18/21 18:21	
Toluene-d8	105	87 - 121	06/18/21 18:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	1.16	90.0	JN
000110-93-0	5-Hepten-2-one, 6-methyl-	11.53	9.2	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	06/18/21 18:44	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 18:44	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 18:44	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 18:44	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 18:44	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 18:44	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 18:44	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 18:44	
2-Hexanone	10 U	10	0.20	1	06/18/21 18:44	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 18:44	
Acetone	10 U	10	5.0	1	06/18/21 18:44	
Benzene	5.0 U	5.0	0.20	1	06/18/21 18:44	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 18:44	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 18:44	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 18:44	
Carbon Disulfide	**4.0 J**	10	0.42	1	06/18/21 18:44	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 18:44	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 18:44	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 18:44	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 18:44	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 18:44	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 18:44	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 18:44	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 18:44	
Styrene	5.0 U	5.0	0.20	1	06/18/21 18:44	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 18:44	
Toluene	5.0 U	5.0	0.20	1	06/18/21 18:44	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 18:44	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 18:44	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 18:44	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 18:44	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 18:44	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 18:44	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 18:44	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 18:44	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	06/18/21 18:44	
Dibromofluoromethane	101	80 - 116	06/18/21 18:44	
Toluene-d8	105	87 - 121	06/18/21 18:44	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	1.14	192.4	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	06/18/21 19:06	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 19:06	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 19:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 19:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 19:06	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 19:06	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 19:06	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 19:06	
2-Hexanone	10 U	10	0.20	1	06/18/21 19:06	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 19:06	
Acetone	10 U	10	5.0	1	06/18/21 19:06	
Benzene	5.0 U	5.0	0.20	1	06/18/21 19:06	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 19:06	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 19:06	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 19:06	
Carbon Disulfide	**3.4 J**	10	0.42	1	06/18/21 19:06	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 19:06	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 19:06	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 19:06	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 19:06	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 19:06	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 19:06	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 19:06	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 19:06	
Styrene	5.0 U	5.0	0.20	1	06/18/21 19:06	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 19:06	
Toluene	5.0 U	5.0	0.20	1	06/18/21 19:06	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 19:06	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 19:06	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 19:06	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 19:06	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 19:06	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 19:06	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 19:06	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 19:06	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	06/18/21 19:06	
Dibromofluoromethane	102	80 - 116	06/18/21 19:06	
Toluene-d8	103	87 - 121	06/18/21 19:06	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	1.10	51.3	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	06/18/21 19:28	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 19:28	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 19:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 19:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 19:28	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 19:28	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 19:28	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 19:28	
2-Hexanone	10 U	10	0.20	1	06/18/21 19:28	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 19:28	
Acetone	10 U	10	5.0	1	06/18/21 19:28	
Benzene	5.0 U	5.0	0.20	1	06/18/21 19:28	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 19:28	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 19:28	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 19:28	
Carbon Disulfide	**3.5 J**	10	0.42	1	06/18/21 19:28	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 19:28	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 19:28	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 19:28	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 19:28	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 19:28	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 19:28	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 19:28	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 19:28	
Styrene	5.0 U	5.0	0.20	1	06/18/21 19:28	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 19:28	
Toluene	5.0 U	5.0	0.20	1	06/18/21 19:28	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 19:28	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 19:28	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 19:28	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 19:28	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 19:28	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 19:28	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 19:28	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 19:28	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	06/18/21 19:28	
Dibromofluoromethane	104	80 - 116	06/18/21 19:28	
Toluene-d8	105	87 - 121	06/18/21 19:28	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	1.10	43.0	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
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	1.2	1	06/17/21 19:03	6/16/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 19:03	6/16/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 19:03	6/16/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 19:03	6/16/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 19:03	6/16/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 19:03	6/16/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 19:03	6/16/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 19:03	6/16/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 19:03	6/16/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
4-Nitrophenol	45 U	45	6.4	1	06/17/21 19:03	6/16/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
Anthracene	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 19:03	6/16/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 19:03	6/16/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
Benzoic Acid	45 U	45	36	1	06/17/21 19:03	6/16/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 19:03	6/16/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 19:03	6/16/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 19:03	6/16/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
Chrysene	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	1.7	1	06/17/21 19:03	6/16/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 19:03	6/16/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 19:03	6/16/21	
Fluorene	9.1 U	9.1	1.3	1	06/17/21 19:03	6/16/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 19:03	6/16/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 19:03	6/16/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 19:03	6/16/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 19:03	6/16/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 19:03	6/16/21	
Isophorone	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 19:03	6/16/21	
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 19:03	6/16/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 19:03	6/16/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 19:03	6/16/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 19:03	6/16/21	
Phenol	9.1 U	9.1	1.0	1	06/17/21 19:03	6/16/21	
Pyrene	9.1 U	9.1	1.5	1	06/17/21 19:03	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	06/17/21 19:03	
2-Fluorobiphenyl	46	31 - 118	06/17/21 19:03	
2-Fluorophenol	35	10 - 105	06/17/21 19:03	
Nitrobenzene-d5	48	31 - 110	06/17/21 19:03	
Phenol-d6	23	10 - 107	06/17/21 19:03	
p-Terphenyl-d14	37	10 - 165	06/17/21 19:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	4.57	15	J
	unknown	6.76	14	J
013798-23-7	Sulfur	8.02	15	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	1.2	1	06/17/21 19:31	6/16/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 19:31	6/16/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 19:31	6/16/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 19:31	6/16/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 19:31	6/16/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 19:31	6/16/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 19:31	6/16/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 19:31	6/16/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 19:31	6/16/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
4-Nitrophenol	45 U	45	6.4	1	06/17/21 19:31	6/16/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
Anthracene	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 19:31	6/16/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 19:31	6/16/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
Benzoic Acid	45 U	45	36	1	06/17/21 19:31	6/16/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 19:31	6/16/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 19:31	6/16/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 19:31	6/16/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
Chrysene	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	1.7	1	06/17/21 19:31	6/16/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 19:31	6/16/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 19:31	6/16/21	
Fluorene	9.1 U	9.1	1.3	1	06/17/21 19:31	6/16/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 19:31	6/16/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 19:31	6/16/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 19:31	6/16/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 19:31	6/16/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 19:31	6/16/21	
Isophorone	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 19:31	6/16/21	
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 19:31	6/16/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 19:31	6/16/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 19:31	6/16/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 19:31	6/16/21	
Phenol	9.1 U	9.1	1.0	1	06/17/21 19:31	6/16/21	
Pyrene	9.1 U	9.1	1.5	1	06/17/21 19:31	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	06/17/21 19:31	
2-Fluorobiphenyl	43	31 - 118	06/17/21 19:31	
2-Fluorophenol	27	10 - 105	06/17/21 19:31	
Nitrobenzene-d5	42	31 - 110	06/17/21 19:31	
Phenol-d6	19	10 - 107	06/17/21 19:31	
p-Terphenyl-d14	44	10 - 165	06/17/21 19:31	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	8.02	22	JN

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	1.2	1	06/17/21 20:52	6/16/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 20:52	6/16/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 20:52	6/16/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 20:52	6/16/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 20:52	6/16/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 20:52	6/16/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 20:52	6/16/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 20:52	6/16/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 20:52	6/16/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
4-Nitrophenol	45 U	45	6.4	1	06/17/21 20:52	6/16/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
Anthracene	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 20:52	6/16/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 20:52	6/16/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
Benzoic Acid	45 U	45	36	1	06/17/21 20:52	6/16/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 20:52	6/16/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 20:52	6/16/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 20:52	6/16/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
Chrysene	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	1.7	1	06/17/21 20:52	6/16/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 20:52	6/16/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 20:52	6/16/21	
Fluorene	9.1 U	9.1	1.3	1	06/17/21 20:52	6/16/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 20:52	6/16/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 20:52	6/16/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 20:52	6/16/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 20:52	6/16/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 20:52	6/16/21	
Isophorone	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 20:52	6/16/21	
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 20:52	6/16/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 20:52	6/16/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 20:52	6/16/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 20:52	6/16/21	
Phenol	9.1 U	9.1	1.0	1	06/17/21 20:52	6/16/21	
Pyrene	9.1 U	9.1	1.5	1	06/17/21 20:52	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	70	35 - 141	06/17/21 20:52	
2-Fluorobiphenyl	36	31 - 118	06/17/21 20:52	
2-Fluorophenol	25	10 - 105	06/17/21 20:52	
Nitrobenzene-d5	34	31 - 110	06/17/21 20:52	
Phenol-d6	18	10 - 107	06/17/21 20:52	
p-Terphenyl-d14	54	10 - 165	06/17/21 20:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	8.01	4.9	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	1.2	1	06/17/21 21:20	6/16/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
2,4-Dinitrophenol	45 U	45	20	1	06/17/21 21:20	6/16/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/17/21 21:20	6/16/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/17/21 21:20	6/16/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/17/21 21:20	6/16/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/17/21 21:20	6/16/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/17/21 21:20	6/16/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/17/21 21:20	6/16/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/17/21 21:20	6/16/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
4-Nitrophenol	45 U	45	6.4	1	06/17/21 21:20	6/16/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
Anthracene	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/17/21 21:20	6/16/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/17/21 21:20	6/16/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
Benzoic Acid	45 U	45	36	1	06/17/21 21:20	6/16/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/17/21 21:20	6/16/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/17/21 21:20	6/16/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/17/21 21:20	6/16/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
Chrysene	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	1.7	1	06/17/21 21:20	6/16/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/17/21 21:20	6/16/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/17/21 21:20	6/16/21	
Fluorene	9.1 U	9.1	1.3	1	06/17/21 21:20	6/16/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/17/21 21:20	6/16/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/17/21 21:20	6/16/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/17/21 21:20	6/16/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/17/21 21:20	6/16/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/17/21 21:20	6/16/21	
Isophorone	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/17/21 21:20	6/16/21	
Naphthalene	9.1 U	9.1	1.2	1	06/17/21 21:20	6/16/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/17/21 21:20	6/16/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/17/21 21:20	6/16/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/17/21 21:20	6/16/21	
Phenol	9.1 U	9.1	1.0	1	06/17/21 21:20	6/16/21	
Pyrene	9.1 U	9.1	1.5	1	06/17/21 21:20	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	77	35 - 141	06/17/21 21:20	
2-Fluorobiphenyl	47	31 - 118	06/17/21 21:20	
2-Fluorophenol	37	10 - 105	06/17/21 21:20	
Nitrobenzene-d5	52	31 - 110	06/17/21 21:20	
Phenol-d6	25	10 - 107	06/17/21 21:20	
p-Terphenyl-d14	53	10 - 165	06/17/21 21:20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.52	23	J
013798-23-7	Sulfur	8.04	9.6	JN

Semivolatile Organic Compounds by GC

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	0.020	1	06/18/21 18:21	6/16/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Aldrin	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Dieldrin	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Endrin	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Heptachlor	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/18/21 18:21	6/16/21	
alpha-BHC	**0.042 J**	0.045	0.020	1	06/18/21 18:21	6/16/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
beta-BHC	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	
delta-BHC	**0.28**	0.045	0.020	1	06/18/21 18:21	6/16/21	
gamma-BHC (Lindane)	**0.090**	0.045	0.020	1	06/18/21 18:21	6/16/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/18/21 18:21	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	15	10 - 164	06/18/21 18:21	
Tetrachloro-m-xylene	54	10 - 147	06/18/21 18:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	0.020	1	06/18/21 21:21	6/15/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Aldrin	**0.038 J**	0.045	0.020	1	06/18/21 21:21	6/15/21	
Dieldrin	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Endrin	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Heptachlor	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/18/21 21:21	6/15/21	
alpha-BHC	**0.12**	0.045	0.020	1	06/18/21 21:21	6/15/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
beta-BHC	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	
delta-BHC	**0.18**	0.045	0.020	1	06/18/21 21:21	6/15/21	
gamma-BHC (Lindane)	**0.26**	0.045	0.020	1	06/18/21 21:21	6/15/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/18/21 21:21	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	58	10 - 164	06/18/21 21:21	
Tetrachloro-m-xylene	63	10 - 147	06/18/21 21:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	0.020	1	06/23/21 15:39	6/16/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 15:39	6/16/21	
alpha-BHC	**0.10**	0.045	0.020	1	06/23/21 15:39	6/16/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	
beta-BHC	**0.037 JP**	0.045	0.020	1	06/23/21 15:39	6/16/21	
delta-BHC	**0.16**	0.045	0.020	1	06/23/21 15:39	6/16/21	
gamma-BHC (Lindane)	**0.12**	0.045	0.020	1	06/23/21 15:39	6/16/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 15:39	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 164	06/23/21 15:39	
Tetrachloro-m-xylene	54	10 - 147	06/23/21 15:39	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	0.020	1	06/23/21 16:39	6/16/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 16:39	6/16/21	
alpha-BHC	**0.026 J**	0.045	0.020	1	06/23/21 16:39	6/16/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	
delta-BHC	**0.17**	0.045	0.020	1	06/23/21 16:39	6/16/21	
gamma-BHC (Lindane)	**0.073**	0.045	0.020	1	06/23/21 16:39	6/16/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 16:39	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 164	06/23/21 16:39	
Tetrachloro-m-xylene	56	10 - 147	06/23/21 16:39	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 10:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-016	**Units:**	ug/L
Lab Code:	R2105855-002	**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	0.50	1	06/19/21 03:00	6/16/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/19/21 03:00	6/16/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/19/21 03:00	6/16/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/19/21 03:00	6/16/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/19/21 03:00	6/16/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/19/21 03:00	6/16/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/19/21 03:00	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	13	10 - 152	06/19/21 03:00	
Tetrachloro-m-xylene	45	14 - 129	06/19/21 03:00	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 11:55
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**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	0.50	1	06/18/21 03:45	6/15/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 03:45	6/15/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 03:45	6/15/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 03:45	6/15/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 03:45	6/15/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 03:45	6/15/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 03:45	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	83	10 - 152	06/18/21 03:45	
Tetrachloro-m-xylene	77	14 - 129	06/18/21 03:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 12:50
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**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	0.50	1	06/19/21 03:19	6/16/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/19/21 03:19	6/16/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/19/21 03:19	6/16/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/19/21 03:19	6/16/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/19/21 03:19	6/16/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/19/21 03:19	6/16/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/19/21 03:19	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 152	06/19/21 03:19	
Tetrachloro-m-xylene	50	14 - 129	06/19/21 03:19	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21 13:45
Sample Matrix:	Water	**Date Received:**	06/11/21 10:20
Sample Name:	WG-9954-061021-SG-019	**Units:**	ug/L
Lab Code:	R2105855-005	**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	0.50	1	06/19/21 03:39	6/16/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/19/21 03:39	6/16/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/19/21 03:39	6/16/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/19/21 03:39	6/16/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/19/21 03:39	6/16/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/19/21 03:39	6/16/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/19/21 03:39	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	37	10 - 152	06/19/21 03:39	
Tetrachloro-m-xylene	45	14 - 129	06/19/21 03:39	

QC Summary 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

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-061021-SG-016	R2105855-002	97	102	105
WG-9954-061021-SG-017	R2105855-003	97	101	105
WG-9954-061021-SG-018	R2105855-004	96	102	103
WG-9954-061021-SG-019	R2105855-005	97	104	105
Method Blank	RQ2107002-06	94	95	101
Lab Control Sample	RQ2107002-04	100	101	103
WG-9954-061021-SG-017 MS	RQ2107002-07	103	107	108
WG-9954-061021-SG-017 DMS	RQ2107002-08	101	104	104
TB-9954-061021-SG-003	R2105855-001	96	97	104
Method Blank	RQ2106933-04	98	96	103
Lab Control Sample	RQ2106933-03	102	101	105

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/18/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2107002-07			RQ2107002-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	5.0 U	54.0	50.0	108	57.5	50.0	115	74-127	6	30
1,1,2,2-Tetrachloroethane	5.0 U	50.4	50.0	101	52.9	50.0	106	72-122	5	30
1,1,2-Trichloroethane	5.0 U	47.5	50.0	95	48.9	50.0	98	82-121	3	30
1,1-Dichloroethane (1,1-DCA)	5.0 U	56.7	50.0	113	58.6	50.0	117	74-132	3	30
1,1-Dichloroethene (1,1-DCE)	5.0 U	64.7	50.0	129 *	71.0	50.0	142 *	71-118	9	30
1,2-Dichloroethane	5.0 U	48.5	50.0	97	49.4	50.0	99	68-130	2	30
1,2-Dichloropropane	5.0 U	52.2	50.0	104	53.1	50.0	106	79-124	2	30
2-Butanone (MEK)	10 U	51.2	50.0	102	50.4	50.0	101	61-137	2	30
2-Hexanone	10 U	50.8	50.0	102	50.6	50.0	101	56-132	<1	30
4-Methyl-2-pentanone	10 U	50.6	50.0	101	51.6	50.0	103	60-141	2	30
Acetone	10 U	51.5	50.0	103	50.5	50.0	101	35-183	2	30
Benzene	5.0 U	50.3	50.0	101	52.3	50.0	105	76-129	4	30
Bromodichloromethane	5.0 U	49.4	50.0	99	52.0	50.0	104	78-133	5	30
Bromoform	5.0 U	40.3	50.0	81	42.9	50.0	86	58-133	6	30
Bromomethane	5.0 U	43.4	50.0	87	43.8	50.0	88	10-184	<1	30
Carbon Disulfide	4.0 J	56.3	50.0	105	62.8	50.0	118	59-140	11	30
Carbon Tetrachloride	5.0 U	49.6	50.0	99	52.7	50.0	105	65-135	6	30
Chlorobenzene	5.0 U	46.8	50.0	94	48.1	50.0	96	76-125	3	30
Chloroethane	5.0 U	61.9	50.0	124	73.1	50.0	146	48-146	17	30
Chloroform	5.0 U	53.2	50.0	106	55.1	50.0	110	75-130	3	30
Chloromethane	5.0 U	56.9	50.0	114	62.3	50.0	125	55-160	9	30
Dibromochloromethane	5.0 U	44.4	50.0	89	47.5	50.0	95	72-128	7	30
Dichloromethane	5.0 U	47.1	50.0	94	48.6	50.0	97	73-122	3	30
Ethylbenzene	5.0 U	50.4	50.0	101	52.1	50.0	104	72-134	3	30
Styrene	5.0 U	50.3	50.0	101	52.2	50.0	104	74-136	4	30
Tetrachloroethene (PCE)	5.0 U	46.7	50.0	93	49.0	50.0	98	72-125	5	30
Toluene	5.0 U	50.2	50.0	100	51.9	50.0	104	79-119	3	30
Trichloroethene (TCE)	5.0 U	46.4	50.0	93	47.9	50.0	96	74-122	3	30
Vinyl Acetate	10 U	50.2	50.0	100	53.9	50.0	108	48-172	7	30
Vinyl Chloride	5.0 U	59.0	50.0	118	61.7	50.0	123	74-159	4	30
cis-1,2-Dichloroethene	5.0 U	56.9	50.0	114	58.3	50.0	117	77-127	2	30
cis-1,3-Dichloropropene	5.0 U	47.4	50.0	95	50.9	50.0	102	52-134	7	30
trans-1,2-Dichloroethene	5.0 U	62.4	50.0	125 *	64.0	50.0	128 *	73-118	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/18/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2107002-07			Duplicate Matrix Spike RQ2107002-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
trans-1,3-Dichloropropene	5.0 U	45.3	50.0	91	48.4	50.0	97	71-133	7	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106933-04	**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	06/17/21 23:55	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/17/21 23:55	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/17/21 23:55	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/17/21 23:55	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/17/21 23:55	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/17/21 23:55	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/17/21 23:55	
2-Butanone (MEK)	10 U	10	0.78	1	06/17/21 23:55	
2-Hexanone	10 U	10	0.20	1	06/17/21 23:55	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/17/21 23:55	
Acetone	10 U	10	5.0	1	06/17/21 23:55	
Benzene	5.0 U	5.0	0.20	1	06/17/21 23:55	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/17/21 23:55	
Bromoform	5.0 U	5.0	0.25	1	06/17/21 23:55	
Bromomethane	5.0 U	5.0	0.70	1	06/17/21 23:55	
Carbon Disulfide	10 U	10	0.42	1	06/17/21 23:55	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/17/21 23:55	
Chlorobenzene	5.0 U	5.0	0.20	1	06/17/21 23:55	
Chloroethane	5.0 U	5.0	0.23	1	06/17/21 23:55	
Chloroform	5.0 U	5.0	0.24	1	06/17/21 23:55	
Chloromethane	**0.40 J**	5.0	0.28	1	06/17/21 23:55	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/17/21 23:55	
Dichloromethane	5.0 U	5.0	0.65	1	06/17/21 23:55	
Ethylbenzene	5.0 U	5.0	0.20	1	06/17/21 23:55	
Styrene	5.0 U	5.0	0.20	1	06/17/21 23:55	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/17/21 23:55	
Toluene	5.0 U	5.0	0.20	1	06/17/21 23:55	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/17/21 23:55	
Vinyl Acetate	10 U	10	1.1	1	06/17/21 23:55	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/17/21 23:55	
Xylenes, Total	5.0 U	5.0	0.23	1	06/17/21 23:55	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/17/21 23:55	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/17/21 23:55	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/17/21 23:55	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/17/21 23:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106933-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/17/21 23:55	
Dibromofluoromethane	96	80 - 116	06/17/21 23:55	
Toluene-d8	103	87 - 121	06/17/21 23:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106933-04	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107002-06	**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	06/18/21 14:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 14:04	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 14:04	
2-Hexanone	10 U	10	0.20	1	06/18/21 14:04	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 14:04	
Acetone	10 U	10	5.0	1	06/18/21 14:04	
Benzene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 14:04	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 14:04	
Carbon Disulfide	10 U	10	0.42	1	06/18/21 14:04	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 14:04	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 14:04	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 14:04	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 14:04	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 14:04	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Styrene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 14:04	
Toluene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 14:04	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 14:04	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 14:04	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 14:04	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 14:04	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 14:04	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 14:04	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 14:04	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107002-06	**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	06/18/21 14:04	
Dibromofluoromethane	95	80 - 116	06/18/21 14:04	
Toluene-d8	101	87 - 121	06/18/21 14:04	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107002-06	**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			

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2106933-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.3	20.0	111	75-125
1,1,2,2-Tetrachloroethane	8260C	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	20.0	20.0	100	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	23.7	20.0	119	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	26.6	20.0	133 *	71-118
1,2-Dichloroethane	8260C	20.5	20.0	102	71-127
1,2-Dichloropropane	8260C	21.9	20.0	109	80-119
2-Butanone (MEK)	8260C	22.3	20.0	111	61-137
2-Hexanone	8260C	20.7	20.0	103	63-124
4-Methyl-2-pentanone	8260C	21.5	20.0	108	66-124
Acetone	8260C	21.5	20.0	107	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromodichloromethane	8260C	19.7	20.0	99	81-123
Bromoform	8260C	16.7	20.0	83	65-146
Bromomethane	8260C	21.8	20.0	109	42-166
Carbon Disulfide	8260C	21.4	20.0	107	66-128
Carbon Tetrachloride	8260C	19.6	20.0	98	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	27.8	20.0	139 *	62-131
Chloroform	8260C	22.1	20.0	111	79-120
Chloromethane	8260C	25.8	20.0	129	65-135
Dibromochloromethane	8260C	18.2	20.0	91	72-128
Dichloromethane	8260C	20.6	20.0	103	73-122
Ethylbenzene	8260C	21.3	20.0	106	76-120
Styrene	8260C	20.8	20.0	104	80-124
Tetrachloroethene (PCE)	8260C	19.9	20.0	100	72-125
Toluene	8260C	20.8	20.0	104	79-119
Trichloroethene (TCE)	8260C	20.3	20.0	101	74-122
Vinyl Acetate	8260C	21.7	20.0	109	52-174
Vinyl Chloride	8260C	23.8	20.0	119	74-159
cis-1,2-Dichloroethene	8260C	23.8	20.0	119	80-121
cis-1,3-Dichloropropene	8260C	20.2	20.0	101	77-122
trans-1,2-Dichloroethene	8260C	25.4	20.0	127 *	73-118

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

Service Request: R2105855
Date Analyzed: 06/17/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2106933-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.7	20.0	99	71-133

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/18/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107002-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.8	20.0	94	75-125
1,1,2,2-Tetrachloroethane	8260C	19.1	20.0	96	78-126
1,1,2-Trichloroethane	8260C	18.3	20.0	91	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.3	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.1	20.0	115	71-118
1,2-Dichloroethane	8260C	18.4	20.0	92	71-127
1,2-Dichloropropane	8260C	19.7	20.0	98	80-119
2-Butanone (MEK)	8260C	19.6	20.0	98	61-137
2-Hexanone	8260C	19.6	20.0	98	63-124
4-Methyl-2-pentanone	8260C	19.6	20.0	98	66-124
Acetone	8260C	18.4	20.0	92	40-161
Benzene	8260C	18.6	20.0	93	79-119
Bromodichloromethane	8260C	17.7	20.0	88	81-123
Bromoform	8260C	15.1	20.0	76	65-146
Bromomethane	8260C	20.1	20.0	101	42-166
Carbon Disulfide	8260C	18.8	20.0	94	66-128
Carbon Tetrachloride	8260C	17.1	20.0	86	70-127
Chlorobenzene	8260C	17.7	20.0	89	80-121
Chloroethane	8260C	24.2	20.0	121	62-131
Chloroform	8260C	19.7	20.0	98	79-120
Chloromethane	8260C	22.4	20.0	112	65-135
Dibromochloromethane	8260C	16.5	20.0	82	72-128
Dichloromethane	8260C	18.0	20.0	90	73-122
Ethylbenzene	8260C	18.5	20.0	93	76-120
Styrene	8260C	18.5	20.0	93	80-124
Tetrachloroethene (PCE)	8260C	17.4	20.0	87	72-125
Toluene	8260C	18.2	20.0	91	79-119
Trichloroethene (TCE)	8260C	17.6	20.0	88	74-122
Vinyl Acetate	8260C	23.0	20.0	115	52-174
Vinyl Chloride	8260C	21.1	20.0	105	74-159
cis-1,2-Dichloroethene	8260C	21.2	20.0	106	80-121
cis-1,3-Dichloropropene	8260C	18.5	20.0	93	77-122
trans-1,2-Dichloroethene	8260C	22.2	20.0	111	73-118

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

Service Request: R2105855
Date Analyzed: 06/18/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107002-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	18.1	20.0	90	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
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-061021-SG-016	R2105855-002	89	46	35
WG-9954-061021-SG-017	R2105855-003	82	43	27
WG-9954-061021-SG-018	R2105855-004	70	36	25
WG-9954-061021-SG-019	R2105855-005	77	47	37
Method Blank	RQ2106847-03	75	37	31
Lab Control Sample	RQ2106847-04	87	55	41
Duplicate Lab Control Sample	RQ2106847-05	89	61	40
WG-9954-061021-SG-017 MS	RQ2106847-01	92	63	31
WG-9954-061021-SG-017 DMS	RQ2106847-02	82	62	35

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-061021-SG-016	R2105855-002	48	23	37
WG-9954-061021-SG-017	R2105855-003	42	19	44
WG-9954-061021-SG-018	R2105855-004	34	18	54
WG-9954-061021-SG-019	R2105855-005	52	25	53
Method Blank	RQ2106847-03	39	22	68
Lab Control Sample	RQ2106847-04	59	30	70
Duplicate Lab Control Sample	RQ2106847-05	59	30	64
WG-9954-061021-SG-017 MS	RQ2106847-01	58	25	61
WG-9954-061021-SG-017 DMS	RQ2106847-02	57	26	50

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/17/21
		Date Extracted:	06/16/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106847-01			RQ2106847-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	9.1 U	35.4	72.7	49	37.6	72.7	52	10-127	6	30
1,2-Dichlorobenzene	9.1 U	29.3	72.7	40	32.3	72.7	44	17-105	10	30
1,3-Dichlorobenzene	9.1 U	27.5	72.7	38	30.7	72.7	42	21-99	10	30
1,4-Dichlorobenzene	9.1 U	27.7	72.7	38	30.8	72.7	42	10-124	10	30
2,4,5-Trichlorophenol	9.1 U	62.9	72.7	86	63.4	72.7	87	48-134	1	30
2,4,6-Trichlorophenol	9.1 U	56.0	72.7	77	55.5	72.7	76	44-135	1	30
2,4-Dichlorophenol	9.1 U	45.8	72.7	63	46.9	72.7	65	40-130	3	30
2,4-Dimethylphenol	9.1 U	47.4	72.7	65	48.5	72.7	67	35-99	3	30
2,4-Dinitrophenol	45 U	53.9	72.7	74	49.5	72.7	68	21-168	8	30
2,4-Dinitrotoluene	9.1 U	67.7	72.7	93	65.4	72.7	90	37-143	3	30
2,6-Dinitrotoluene	9.1 U	72.7	72.7	100	73.6	72.7	101	39-136	<1	30
2-Chloronaphthalene	9.1 U	51.3	72.7	71	51.6	72.7	71	40-108	<1	30
2-Chlorophenol	9.1 U	33.5	72.7	46	36.9	72.7	51	37-112	10	30
2-Methylnaphthalene	9.1 U	48.3	72.7	66	49.4	72.7	68	34-102	3	30
2-Methylphenol	9.1 U	42.1	72.7	58	46.2	72.7	64	37-102	10	30
2-Nitroaniline	9.1 U	70.8	72.7	97	70.9	72.7	97	40-136	<1	30
2-Nitrophenol	9.1 U	42.7	72.7	59	44.9	72.7	62	27-143	5	30
3,3'-Dichlorobenzidine	9.1 U	73.0	72.7	100	74.8	72.7	103	11-131	3	30
3- and 4-Methylphenol Coelution	9.1 U	43.6	72.7	60	45.3	72.7	62	30-95	3	30
3-Nitroaniline	9.1 U	56.3	72.7	77	58.9	72.7	81	19-117	5	30
4,6-Dinitro-2-methylphenol	45 U	61.7	72.7	85	63.4	72.7	87	25-154	2	30
4-Bromophenyl Phenyl Ether	9.1 U	66.8	72.7	92	66.8	72.7	92	39-115	<1	30
4-Chloro-3-methylphenol	9.1 U	56.9	72.7	78	57.0	72.7	78	41-126	<1	30
4-Chloroaniline	9.1 U	50.9	72.7	70	55.8	72.7	77	19-111	10	30
4-Chlorophenyl Phenyl Ether	9.1 U	67.1	72.7	92	64.3	72.7	88	41-111	4	30
4-Nitroaniline	9.1 U	65.2	72.7	90	64.4	72.7	88	18-143	2	30
4-Nitrophenol	45 U	36.2 J	72.7	50	34.5 J	72.7	47	10-126	6	30
Acenaphthene	9.1 U	58.7	72.7	81	59.4	72.7	82	43-117	1	30
Acenaphthylene	9.1 U	61.3	72.7	84	61.0	72.7	84	45-119	<1	30
Anthracene	9.1 U	65.8	72.7	90	66.1	72.7	91	45-127	1	30
Benz(a)anthracene	9.1 U	55.2	72.7	76	48.3	72.7	66	46-126	14	30
Benzo(a)pyrene	9.1 U	61.9	72.7	85	53.2	72.7	73	44-114	15	30
Benzo(b)fluoranthene	9.1 U	51.8	72.7	71	44.5	72.7	61	41-127	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/17/21
		Date Extracted:	06/16/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106847-01			RQ2106847-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	9.1 U	57.4	72.7	79	47.8	72.7	66	50-143	18	30
Benzo(k)fluoranthene	9.1 U	54.7	72.7	75	47.6	72.7	65	46-139	14	30
Benzoic Acid	45 U	60.1	109	55	54.8	109	50	10-94	10	30
Benzyl Alcohol	9.1 U	51.1	72.7	70	57.4	72.7	79	31-109	12	30
2,2'-Oxybis(1-chloropropane)	9.1 U	48.5	72.7	67	51.8	72.7	71	21-126	6	30
Bis(2-chloroethoxy)methane	9.1 U	64.6	72.7	89	65.6	72.7	90	41-118	1	30
Bis(2-chloroethyl) Ether	9.1 U	41.7	72.7	57	45.0	72.7	62	33-108	8	30
Bis(2-ethylhexyl) Phthalate	9.1 U	63.8	72.7	88	54.4	72.7	75	41-132	16	30
Butyl Benzyl Phthalate	9.1 U	72.5	72.7	100	65.7	72.7	90	41-148	11	30
Chrysene	9.1 U	55.8	72.7	77	48.3	72.7	66	47-126	15	30
Di-n-butyl Phthalate	9.1 U	86.8	72.7	119	83.1	72.7	114	43-130	4	30
Di-n-octyl Phthalate	9.1 U	74.2	72.7	102	62.1	72.7	85	40-139	18	30
Dibenz(a,h)anthracene	9.1 U	52.8	72.7	73	45.2	72.7	62	43-136	16	30
Dibenzofuran	9.1 U	62.0	72.7	85	60.0	72.7	82	46-119	4	30
Diethyl Phthalate	9.1 U	62.6	72.7	86	59.8	72.7	82	36-122	5	30
Dimethyl Phthalate	9.1 U	68.6	72.7	94	67.2	72.7	92	33-123	2	30
Fluoranthene	9.1 U	76.9	72.7	106	71.9	72.7	99	43-135	7	30
Fluorene	9.1 U	66.6	72.7	92	65.0	72.7	89	43-113	3	30
Hexachlorobenzene	9.1 U	64.7	72.7	89	60.6	72.7	83	42-125	7	30
Hexachlorobutadiene	9.1 U	35.6	72.7	49	37.5	72.7	52	10-111	6	30
Hexachlorocyclopentadiene	9.1 U	21.7	72.7	30	18.8	72.7	26	10-103	14	30
Hexachloroethane	9.1 U	27.4	72.7	38	31.4	72.7	43	12-101	12	30
Indeno(1,2,3-cd)pyrene	9.1 U	55.0	72.7	76	46.1	72.7	63	49-140	19	30
Isophorone	9.1 U	60.0	72.7	83	60.3	72.7	83	40-111	<1	30
N-Nitrosodi-n-propylamine	9.1 U	51.2	72.7	70	53.7	72.7	74	35-108	6	30
N-Nitrosodiphenylamine	9.1 U	66.9	72.7	92	69.1	72.7	95	43-127	3	30
Naphthalene	9.1 U	41.9	72.7	58	42.5	72.7	58	37-108	<1	30
Nitrobenzene	9.1 U	44.6	72.7	61	46.9	72.7	65	35-112	6	30
Pentachlorophenol (PCP)	45 U	78.8	72.7	108	74.7	72.7	103	29-164	5	30
Phenanthrene	9.1 U	64.8	72.7	89	64.1	72.7	88	46-123	1	30
Phenol	9.1 U	20.4	72.7	28	22.2	72.7	30	10-113	7	30
Pyrene	9.1 U	67.9	72.7	93	61.8	72.7	85	44-129	9	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106847-03	**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	06/17/21 15:18	6/16/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2,4-Dinitrophenol	50 U	50	20	1	06/17/21 15:18	6/16/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/17/21 15:18	6/16/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2-Chlorophenol	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
2-Methylphenol	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
2-Nitroaniline	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
2-Nitrophenol	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
3-Nitroaniline	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/17/21 15:18	6/16/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/17/21 15:18	6/16/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
4-Chloroaniline	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
4-Nitroaniline	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
4-Nitrophenol	50 U	50	6.4	1	06/17/21 15:18	6/16/21	
Acenaphthene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Acenaphthylene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Anthracene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Benz(a)anthracene	10 U	10	1.6	1	06/17/21 15:18	6/16/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Benzoic Acid	50 U	50	36	1	06/17/21 15:18	6/16/21	
Benzyl Alcohol	10 U	10	1.6	1	06/17/21 15:18	6/16/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/17/21 15:18	6/16/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/17/21 15:18	6/16/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Chrysene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106847-03	**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	1.7	1	06/17/21 15:18	6/16/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/17/21 15:18	6/16/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
Dibenzofuran	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Diethyl Phthalate	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Fluoranthene	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
Fluorene	10 U	10	1.3	1	06/17/21 15:18	6/16/21	
Hexachlorobenzene	10 U	10	1.6	1	06/17/21 15:18	6/16/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/17/21 15:18	6/16/21	
Hexachloroethane	10 U	10	1.1	1	06/17/21 15:18	6/16/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/17/21 15:18	6/16/21	
Isophorone	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/17/21 15:18	6/16/21	
Naphthalene	10 U	10	1.2	1	06/17/21 15:18	6/16/21	
Nitrobenzene	10 U	10	1.5	1	06/17/21 15:18	6/16/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/17/21 15:18	6/16/21	
Phenanthrene	10 U	10	1.4	1	06/17/21 15:18	6/16/21	
Phenol	10 U	10	1.0	1	06/17/21 15:18	6/16/21	
Pyrene	10 U	10	1.5	1	06/17/21 15:18	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	06/17/21 15:18	
2-Fluorobiphenyl	37	31 - 118	06/17/21 15:18	
2-Fluorophenol	31	10 - 105	06/17/21 15:18	
Nitrobenzene-d5	39	31 - 110	06/17/21 15:18	
Phenol-d6	22	10 - 107	06/17/21 15:18	
p-Terphenyl-d14	68	10 - 165	06/17/21 15:18	

Tentatively Identified Compounds

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106847-04			RQ2106847-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	41.7	80.0	52	41.7	80.0	52	10-127	<1	30
1,2-Dichlorobenzene	8270D	40.5	80.0	51	37.4	80.0	47	23-130	8	30
1,3-Dichlorobenzene	8270D	37.7	80.0	47	36.3	80.0	45	21-90	4	30
1,4-Dichlorobenzene	8270D	38.1	80.0	48	36.6	80.0	46	10-124	4	30
2,4,5-Trichlorophenol	8270D	69.2	80.0	87	71.9	80.0	90	48-134	3	30
2,4,6-Trichlorophenol	8270D	59.6	80.0	74	63.1	80.0	79	44-135	7	30
2,4-Dichlorophenol	8270D	51.0	80.0	64	51.8	80.0	65	48-127	2	30
2,4-Dimethylphenol	8270D	51.7	80.0	65	53.7	80.0	67	35-99	3	30
2,4-Dinitrophenol	8270D	64.1	80.0	80	61.3	80.0	77	21-154	4	30
2,4-Dinitrotoluene	8270D	75.0	80.0	94	74.2	80.0	93	54-130	1	30
2,6-Dinitrotoluene	8270D	81.3	80.0	102	82.5	80.0	103	51-127	<1	30
2-Chloronaphthalene	8270D	51.1	80.0	64	55.3	80.0	69	40-108	8	30
2-Chlorophenol	8270D	45.4	80.0	57	43.8	80.0	55	42-112	4	30
2-Methylnaphthalene	8270D	49.1	80.0	61	53.6	80.0	67	34-102	9	30
2-Methylphenol	8270D	52.4	80.0	66	52.9	80.0	66	47-100	<1	30
2-Nitroaniline	8270D	76.6	80.0	96	78.8	80.0	99	52-133	3	30
2-Nitrophenol	8270D	47.6	80.0	59	49.9	80.0	62	43-131	5	30
3,3'-Dichlorobenzidine	8270D	75.7	80.0	95	76.0	80.0	95	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	51.4	80.0	64	53.8	80.0	67	40-92	5	30
3-Nitroaniline	8270D	65.1	80.0	81	65.1	80.0	81	42-111	<1	30
4,6-Dinitro-2-methylphenol	8270D	68.0	80.0	85	69.2	80.0	87	36-152	2	30
4-Bromophenyl Phenyl Ether	8270D	77.3	80.0	97	77.6	80.0	97	48-114	<1	30
4-Chloro-3-methylphenol	8270D	61.2	80.0	76	63.9	80.0	80	52-113	5	30
4-Chloroaniline	8270D	60.0	80.0	75	57.7	80.0	72	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	68.8	80.0	86	71.9	80.0	90	51-107	5	30
4-Nitroaniline	8270D	67.2	80.0	84	65.7	80.0	82	54-133	2	30
4-Nitrophenol	8270D	42.1 J	80.0	53	41.7 J	80.0	52	10-126	2	30
Acenaphthene	8270D	59.2	80.0	74	62.7	80.0	78	52-107	5	30
Acenaphthylene	8270D	62.8	80.0	79	65.8	80.0	82	55-109	4	30
Anthracene	8270D	74.9	80.0	94	73.4	80.0	92	55-116	2	30
Benz(a)anthracene	8270D	72.8	80.0	91	68.9	80.0	86	61-121	6	30
Benzo(a)pyrene	8270D	82.2	80.0	103	75.9	80.0	95	44-114	8	30
Benzo(b)fluoranthene	8270D	74.4	80.0	93	67.9	80.0	85	62-115	9	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/17/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106847-04			RQ2106847-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	78.3	80.0	98	72.6	80.0	91	63-136	7	30
Benzo(k)fluoranthene	8270D	77.8	80.0	97	74.0	80.0	93	49-133	4	30
Benzoic Acid	8270D	56.3	120	47	64.5	120	54	10-94	14	30
Benzyl Alcohol	8270D	63.3	80.0	79	64.0	80.0	80	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	60.7	80.0	76	60.6	80.0	76	32-122	<1	30
Bis(2-chloroethoxy)methane	8270D	69.7	80.0	87	72.6	80.0	91	55-110	4	30
Bis(2-chloroethyl) Ether	8270D	53.3	80.0	67	51.1	80.0	64	46-102	5	30
Bis(2-ethylhexyl) Phthalate	8270D	86.6	80.0	108	76.3	80.0	95	51-132	13	30
Butyl Benzyl Phthalate	8270D	81.1	80.0	101	77.2	80.0	96	41-148	5	30
Chrysene	8270D	75.9	80.0	95	72.1	80.0	90	57-118	5	30
Di-n-butyl Phthalate	8270D	104	80.0	130 *	99.9	80.0	125	57-128	4	30
Di-n-octyl Phthalate	8270D	95.1	80.0	119	85.9	80.0	107	62-124	11	30
Dibenz(a,h)anthracene	8270D	76.7	80.0	96	68.9	80.0	86	54-135	11	30
Dibenzofuran	8270D	62.1	80.0	78	66.9	80.0	84	55-110	7	30
Diethyl Phthalate	8270D	68.2	80.0	85	67.1	80.0	84	53-113	1	30
Dimethyl Phthalate	8270D	74.3	80.0	93	76.2	80.0	95	51-112	2	30
Fluoranthene	8270D	85.5	80.0	107	84.5	80.0	106	66-127	<1	30
Fluorene	8270D	68.7	80.0	86	71.5	80.0	89	54-106	3	30
Hexachlorobenzene	8270D	77.0	80.0	96	77.5	80.0	97	53-123	1	30
Hexachlorobutadiene	8270D	41.7	80.0	52	42.5	80.0	53	16-95	2	30
Hexachlorocyclopentadiene	8270D	26.5	80.0	33	30.5	80.0	38	10-99	14	30
Hexachloroethane	8270D	39.4	80.0	49	37.2	80.0	47	15-92	4	30
Indeno(1,2,3-cd)pyrene	8270D	77.0	80.0	96	70.1	80.0	88	62-137	9	30
Isophorone	8270D	63.6	80.0	80	66.6	80.0	83	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	55.2	80.0	69	59.6	80.0	75	49-115	8	30
N-Nitrosodiphenylamine	8270D	74.0	80.0	92	77.7	80.0	97	45-123	5	30
Naphthalene	8270D	47.0	80.0	59	47.6	80.0	60	38-99	2	30
Nitrobenzene	8270D	53.0	80.0	66	52.7	80.0	66	46-108	<1	30
Pentachlorophenol (PCP)	8270D	90.8	80.0	114	91.5	80.0	114	29-164	<1	30
Phenanthrene	8270D	71.5	80.0	89	72.4	80.0	91	58-118	2	30
Phenol	8270D	27.3	80.0	34	27.7	80.0	35	10-113	3	30
Pyrene	8270D	73.0	80.0	91	70.2	80.0	88	61-122	3	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2105855

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-061021-SG-016	R2105855-002	15	54
WG-9954-061021-SG-017	R2105855-003	58	63
WG-9954-061021-SG-018	R2105855-004	56	54
WG-9954-061021-SG-019	R2105855-005	42	56
Method Blank	RQ2106772-03	59	46
Method Blank	RQ2106772-03	59	48
Method Blank	RQ2106848-01	59	49
Method Blank	RQ2106848-01	65	52
Lab Control Sample	RQ2106772-04	57	44
Lab Control Sample	RQ2106772-04	58	46
Duplicate Lab Control Sample	RQ2106772-05	60	51
Duplicate Lab Control Sample	RQ2106772-05	65	54
Lab Control Sample	RQ2106848-02	57	49
Lab Control Sample	RQ2106848-02	62	52
Duplicate Lab Control Sample	RQ2106848-03	57	52
Duplicate Lab Control Sample	RQ2106848-03	60	53
WG-9954-061021-SG-017 MS	RQ2106772-01	58	59
WG-9954-061021-SG-017 DMS	RQ2106772-02	66	58
WG-9954-061021-SG-018 MS	RQ2106848-04	55	65
WG-9954-061021-SG-018 DMS	RQ2106848-05	44	68

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/18/21
		Date Extracted:	06/15/21

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**Basis:**	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2106772-01			**Duplicate Matrix Spike** RQ2106772-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.045 U	0.238	0.364	66	0.255	0.364	70	38-157	7	30
4,4'-DDE	0.045 U	0.226	0.364	62	0.242	0.364	67	10-200	7	30
4,4'-DDT	0.045 U	0.241	0.364	66	0.256	0.364	70	19-154	6	30
Aldrin	0.038 J	0.220	0.364	50	0.229	0.364	53	26-149	4	30
Dieldrin	0.045 U	0.247	0.364	68	0.263	0.364	72	41-164	6	30
Endosulfan I	0.045 U	0.245	0.364	67	0.262	0.364	72	47-149	7	30
Endosulfan II	0.045 U	0.244	0.364	67	0.263	0.364	72	51-148	8	30
Endosulfan Sulfate	0.045 U	0.243	0.364	67	0.267	0.364	73	10-170	9	30
Endrin	0.045 U	0.262	0.364	72	0.281	0.364	77	48-165	7	30
Endrin Ketone	0.045 U	0.256	0.364	70	0.281	0.364	77	48-162	9	30
Heptachlor	0.045 U	0.232	0.364	64	0.236	0.364	65	29-168	2	30
Heptachlor Epoxide	0.045 U	0.256	0.364	70	0.275	0.364	76	29-180	7	30
Methoxychlor	0.045 U	0.272	0.364	75	0.289	0.364	79	38-162	6	30
alpha-BHC	0.12	0.250	0.364	37	0.254	0.364	38	27-154	2	30
alpha-Chlordane	0.045 U	0.242	0.364	67	0.254	0.364	70	35-160	5	30
beta-BHC	0.045 U	0.259	0.364	71	0.281	0.364	77	32-184	8	30
delta-BHC	0.18	0.284	0.364	30	0.290	0.364	31	10-182	2	30
gamma-BHC (Lindane)	0.26	0.273	0.364	3 *	0.281	0.364	5 *	43-164	3	30
gamma-Chlordane	0.045 U	0.245	0.364	67	0.251	0.364	69	35-165	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/23/21
		Date Extracted:	06/16/21

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-061021-SG-018	**Units:**	ug/L
Lab Code:	R2105855-004	**Basis:**	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2106848-04			**Duplicate Matrix Spike** RQ2106848-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.045 U	0.262	0.364	72	0.248	0.364	68	38-157	5	30
4,4'-DDE	0.045 U	0.247	0.364	68	0.258	0.364	71	10-200	4	30
4,4'-DDT	0.045 U	0.252	0.364	69	0.235	0.364	65	19-154	7	30
Aldrin	0.045 U	0.230	0.364	63	0.229	0.364	63	26-149	<1	30
Dieldrin	0.045 U	0.277	0.364	76	0.274	0.364	75	41-164	1	30
Endosulfan I	0.045 U	0.272	0.364	75	0.272	0.364	75	47-149	<1	30
Endosulfan II	0.045 U	0.274	0.364	75	0.271	0.364	75	51-148	<1	30
Endosulfan Sulfate	0.045 U	0.251	0.364	69	0.197	0.364	54	10-170	24	30
Endrin	0.045 U	0.295	0.364	81	0.292	0.364	80	48-165	1	30
Endrin Ketone	0.045 U	0.287	0.364	79	0.294	0.364	81	48-162	3	30
Heptachlor	0.045 U	0.250	0.364	69	0.255	0.364	70	29-168	2	30
Heptachlor Epoxide	0.045 U	0.291	0.364	80	0.285	0.364	78	29-180	2	30
Methoxychlor	0.045 U	0.307	0.364	84	0.302	0.364	83	38-162	2	30
alpha-BHC	0.10	0.405	0.364	83	0.293	0.364	52	27-154	32*	30
alpha-Chlordane	0.045 U	0.271	0.364	75	0.259	0.364	71	35-160	5	30
beta-BHC	0.037 JP	0.336	0.364	82	0.335	0.364	82	32-184	<1	30
delta-BHC	0.16	0.896	0.364	204 *	0.506	0.364	97	10-182	56*	30
gamma-BHC (Lindane)	0.12	0.407	0.364	78	0.384	0.364	71	43-164	6	30
gamma-Chlordane	0.045 U	0.266	0.364	73	0.249	0.364	68	35-165	7	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**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	06/16/21 20:37	6/15/21	
4,4'-DDE	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
4,4'-DDT	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Aldrin	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Dieldrin	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endosulfan I	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endosulfan II	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endosulfan Sulfate	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endrin	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Endrin Ketone	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Heptachlor	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Heptachlor Epoxide	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Methoxychlor	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
Toxaphene	0.50	U	0.50	0.50	1	06/16/21 20:37	6/15/21	
alpha-BHC	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
alpha-Chlordane	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
beta-BHC	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
delta-BHC	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
gamma-BHC (Lindane)	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	
gamma-Chlordane	0.050	U	0.050	0.020	1	06/16/21 20:37	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/16/21 20:37	
Tetrachloro-m-xylene	46	10 - 147	06/16/21 20:37	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**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	06/18/21 20:21	6/15/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Aldrin	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Dieldrin	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endrin	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Heptachlor	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
Toxaphene	0.50 U	0.50	0.50	1	06/18/21 20:21	6/15/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
beta-BHC	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
delta-BHC	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/18/21 20:21	6/15/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/18/21 20:21	
Tetrachloro-m-xylene	48	10 - 147	06/18/21 20:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**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	06/18/21 17:20	6/16/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Aldrin	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Dieldrin	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endrin	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Heptachlor	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/18/21 17:20	6/16/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
beta-BHC	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
delta-BHC	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/18/21 17:20	
Tetrachloro-m-xylene	49	10 - 147	06/18/21 17:20	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**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	06/23/21 14:19	6/16/21	
4,4'-DDE	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
4,4'-DDT	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Aldrin	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Dieldrin	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endosulfan I	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endosulfan II	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endosulfan Sulfate	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endrin	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endrin Ketone	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Heptachlor	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Heptachlor Epoxide	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Methoxychlor	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Toxaphene	0.50	U	0.50	0.50	1	06/23/21 14:19	6/16/21	
alpha-BHC	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
alpha-Chlordane	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
beta-BHC	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
delta-BHC	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
gamma-BHC (Lindane)	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
gamma-Chlordane	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 164	06/23/21 14:19	
Tetrachloro-m-xylene	52	10 - 147	06/23/21 14:19	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/16/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106772-04			RQ2106772-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.257	0.400	64	0.259	0.400	65	42-159	<1	30
4,4'-DDE	8081B	0.255	0.400	64	0.265	0.400	66	47-147	4	30
4,4'-DDT	8081B	0.281	0.400	70	0.291	0.400	73	41-149	3	30
Aldrin	8081B	0.201	0.400	50	0.224	0.400	56	22-137	10	30
Dieldrin	8081B	0.281	0.400	70	0.294	0.400	73	52-144	4	30
Endosulfan I	8081B	0.274	0.400	68	0.286	0.400	72	52-136	5	30
Endosulfan II	8081B	0.282	0.400	71	0.289	0.400	72	57-138	2	30
Endosulfan Sulfate	8081B	0.281	0.400	70	0.285	0.400	71	34-156	1	30
Endrin	8081B	0.294	0.400	74	0.306	0.400	76	56-143	4	30
Endrin Ketone	8081B	0.297	0.400	74	0.300	0.400	75	59-143	1	30
Heptachlor	8081B	0.234	0.400	59	0.252	0.400	63	32-141	7	30
Heptachlor Epoxide	8081B	0.279	0.400	70	0.292	0.400	73	51-143	4	30
Methoxychlor	8081B	0.291	0.400	73	0.278	0.400	69	56-149	5	30
alpha-BHC	8081B	0.252	0.400	63	0.261	0.400	65	36-151	3	30
alpha-Chlordane	8081B	0.266	0.400	66	0.283	0.400	71	50-139	6	30
beta-BHC	8081B	0.281	0.400	70	0.278	0.400	70	55-149	<1	30
delta-BHC	8081B	0.266	0.400	66	0.267	0.400	67	29-159	<1	30
gamma-BHC (Lindane)	8081B	0.262	0.400	66	0.264	0.400	66	41-149	<1	30
gamma-Chlordane	8081B	0.253	0.400	63	0.270	0.400	68	50-140	6	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/18/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106848-02			RQ2106848-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.270	0.400	67	0.294	0.400	74	42-159	9	30
4,4'-DDE	8081B	0.260	0.400	65	0.283	0.400	71	47-147	9	30
4,4'-DDT	8081B	0.278	0.400	69	0.304	0.400	76	41-149	9	30
Aldrin	8081B	0.180	0.400	45	0.205	0.400	51	22-137	13	30
Dieldrin	8081B	0.273	0.400	68	0.296	0.400	74	52-144	8	30
Endosulfan I	8081B	0.270	0.400	67	0.292	0.400	73	52-136	8	30
Endosulfan II	8081B	0.268	0.400	67	0.294	0.400	73	57-138	9	30
Endosulfan Sulfate	8081B	0.263	0.400	66	0.295	0.400	74	34-156	12	30
Endrin	8081B	0.289	0.400	72	0.314	0.400	78	56-143	8	30
Endrin Ketone	8081B	0.271	0.400	68	0.300	0.400	75	59-143	10	30
Heptachlor	8081B	0.214	0.400	54	0.244	0.400	61	32-141	13	30
Heptachlor Epoxide	8081B	0.274	0.400	69	0.296	0.400	74	51-143	8	30
Methoxychlor	8081B	0.298	0.400	75	0.323	0.400	81	56-149	8	30
alpha-BHC	8081B	0.263	0.400	66	0.278	0.400	70	36-151	6	30
alpha-Chlordane	8081B	0.263	0.400	66	0.284	0.400	71	50-139	8	30
beta-BHC	8081B	0.284	0.400	71	0.299	0.400	75	55-149	5	30
delta-BHC	8081B	0.272	0.400	68	0.294	0.400	74	29-159	8	30
gamma-BHC (Lindane)	8081B	0.269	0.400	67	0.286	0.400	71	41-149	6	30
gamma-Chlordane	8081B	0.260	0.400	65	0.277	0.400	69	50-140	6	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-061021-SG-016	R2105855-002	13	45
WG-9954-061021-SG-017	R2105855-003	83	77
WG-9954-061021-SG-018	R2105855-004	49	50
WG-9954-061021-SG-019	R2105855-005	37	45
Method Blank	RQ2106772-03	81	57
Method Blank	RQ2106848-01	54	42
Lab Control Sample	RQ2106772-04	88	65
Duplicate Lab Control Sample	RQ2106772-05	92	61
Lab Control Sample	RQ2106848-02	52	45
Duplicate Lab Control Sample	RQ2106848-03	55	43
WG-9954-061021-SG-017 MS	RQ2106772-01	63	66
WG-9954-061021-SG-017 DMS	RQ2106772-02	81	65

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/10/21
Sample Matrix:	Water	**Date Received:**	06/11/21
		Date Analyzed:	06/18/21
		Date Extracted:	06/15/21

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	WG-9954-061021-SG-017	**Units:**	ug/L
Lab Code:	R2105855-003	**Basis:**	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2106772-01			Duplicate Matrix Spike RQ2106772-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.91 U	2.55	3.64	70	3.22	3.64	88	32-142	23	30
Aroclor 1260	0.91 U	2.52	3.64	69	3.01	3.64	83	28-142	18	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106772-03	**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	06/17/21 23:49	6/15/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/17/21 23:49	6/15/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/17/21 23:49	6/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	81	10 - 152	06/17/21 23:49	
Tetrachloro-m-xylene	57	14 - 129	06/17/21 23:49	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105855
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**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	06/19/21 02:01	6/16/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/19/21 02:01	6/16/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 152	06/19/21 02:01	
Tetrachloro-m-xylene	42	14 - 129	06/19/21 02:01	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/18/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2106772-04			RQ2106772-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	3.46	4.00	87	3.48	4.00	87	49-123	<1	30
Aroclor 1260	8082A	3.91	4.00	98	4.24	4.00	106	30-120	8	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105855
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/19/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2106848-02		RQ2106848-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.40	4.00	60	2.39	4.00	60	49-123	<1	30
Aroclor 1260	8082A	2.65	4.00	66	2.77	4.00	69	30-120	5	30

June 29, 2021 Service Request No:R2105874

Ms. Kathy Willy
GHD
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 12, 2021
For your reference, these analyses have been assigned our service request number **R2105874.**

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) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/12/2021
Sample Matrix: Water

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 06/12/2021. 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:

No significant anomalies were noted with this analysis.

Semivoa GC:

Method 8081B, 06/19/2021: 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, 06/21/2021: 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, 06/21/2021: 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, : 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.

Approved by _____ Date 06/29/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-061121-SG-20			Lab ID: R2105874-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Bromomethane	0.89	J	0.70	5.0	ug/L	8260C
Carbon Disulfide	1.0	J	0.42	10	ug/L	8260C
Chloromethane	0.40	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-061121-SG-21			Lab ID: R2105874-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Bromomethane	1.2	J	0.70	5.0	ug/L	8260C
Chloromethane	0.45	J	0.28	5.0	ug/L	8260C

CLIENT ID: TB-9954-061121-SG-004			Lab ID: R2105874-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Bromomethane	0.82	J	0.70	5.0	ug/L	8260C
Chloromethane	0.77	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-061121-SG-24			Lab ID: R2105874-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	0.51	J	0.42	10	ug/L	8260C
3- and 4-Methylphenol Coelution	3.1	J	1.2	9.1	ug/L	8270D

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) **Service Request:**R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2105874-001	WG-9954-061121-SG-20	6/11/2021	0915
R2105874-002	WG-9954-061121-SG-21	6/11/2021	0915
R2105874-003	TB-9954-061121-SG-004	6/11/2021	0910
R2105874-004	WG-9954-061121-SG-22	6/11/2021	1015
R2105874-005	WG-9954-061121-SG-23	6/11/2021	1100
R2105874-006	WG-9954-061121-SG-24	6/11/2021	1155

CHAIN OF CUSTODY RECORD

COC Number:

ADDRESS: 2055 NIAGARA FALLS BLVD N. FALLS PAGE 1 OF 1

PHONE: _____ FAX: _____

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /D:			Total # of Containers: ~~144~~ 38

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Sample Type: Grab (G) or Comp ©	Sample Type: Filtered (Y/N)	Analysis Requested: VOC	Analysis Requested: SVOC	Analysis Requested: PEST/PCB	Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	WG-9954-061121-SG-020	06/11/21	9:15	W	G	N	X	X	X	7		
2	WG-9954-061121-SG-021	06/11/21	9:15	W	G	N	X	X	X	7		
3	TB-9954-061121-SG-004	06/11/21	9:10	W	G	N	X			3		
4	WG-9954-061121-SG-022	06/11/21	10:15	W	G	N	X	X	X	7		
5	WG-9954-061121-SG-023	06/11/21	11:00	W	G	N	X	X	X	7		
6	WG-9954-061121-SG-024	06/11/21	11:55	W	G	N	X	X	X	7		
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

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GHD

Love Canal:292-402-D02-3100

TAT Required in business days (use separate COCs fro different TATs)

(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time		Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/11/21	1430	1		ALS	6/12/21	0900
2					2				
3					3				

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#_____

T030477

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

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

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:

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D B081B / Pest OC	7D B082A / PCB	7D B270D / SVO	14D B260C / VOC FP	1	2	3	4	5	Remarks
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 Cilibration Summaries
X 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

R2105874 5
GHD
Love Canal:292-402-D02-3100

Project/Client GHD Folder Number

Cooler received on 6/12/21 by: dh

COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set ~~NA~~

3. Temperature Readings Date: 6/12/21 Time: 0914 ID: IR#7 IR#1 From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	0.8						
Within 0-6°C?	(Y) ~~N~~ Corr	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: Rack by dw on 6/12/21 at 0914
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/14/21 Time: 1500 by: @

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 Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 76626-C2715, 2596
Explain all Discrepancies/ Other Comments:
* 3 vials, Trip Blank

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

Client: GHD **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105874-001.01					
	8081B				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105874-001.02					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-001.03					
	8260C				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/18/2021	1349	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
R2105874-001.04					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-001.05					
	8270D				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0812	In Lab / VSTAUFFER	
R2105874-001.06					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0812	In Lab / VSTAUFFER	
R2105874-001.07					
	8082A				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0812	In Lab / VSTAUFFER	
R2105874-002.01					
	8081B				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105874-002.02					

Client: GHD **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-002.03					
	8260C				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/18/2021	1349	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
R2105874-002.04					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-002.05					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-002.06					
	8270D				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105874-002.07					
	8082A				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-003.01					
	8260C				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/18/2021	1349	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
R2105874-003.02					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-003.03					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105874-004.01					
	8081B				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/16/2021	0823	In Lab / VSTAUFFER	
R2105874-004.02					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-004.03					
	8260C				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/18/2021	1349	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
		6/21/2021	1448	R-001-S12 / KRUEST	
R2105874-004.04					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/21/2021	1220	In Lab / KRUEST	
R2105874-004.05					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-004.06					
	8270D				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105874-004.07					
	8082A				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-005.01					
	8081B				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-005.02					
		6/14/2021	1501	SMO / GESMERIAN	

Client: GHD **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-005.03					
	8260C				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/18/2021	1349	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
R2105874-005.04					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-005.05					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-005.06					
	8270D				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105874-005.07					
	8082A				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105874-006.01					
	8081B				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-006.02					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
R2105874-006.03					
	8260C				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/18/2021	1349	In Lab / FNAEGLER	
		6/18/2021	1353	R-001-S08 / FNAEGLER	
		6/21/2021	1448	R-001-S12 / KRUEST	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105874-006.04					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-001 / GESMERIAN	
		6/21/2021	1220	In Lab / KRUEST	
R2105874-006.05					
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
R2105874-006.06					
	8270D				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0811	In Lab / VSTAUFFER	
R2105874-006.07					
	8082A				
		6/14/2021	1501	SMO / GESMERIAN	
		6/14/2021	1507	R-002 / GESMERIAN	
		6/17/2021	0811	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
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.

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/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

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.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

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 Certifications[1]

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 laboratoryôs 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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061121-SG-20	**Date Collected:**	06/11/21
Lab Code:	R2105874-001	**Date Received:**	06/12/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061121-SG-21	**Date Collected:**	06/11/21
Lab Code:	R2105874-002	**Date Received:**	06/12/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	TB-9954-061121-SG-004	**Date Collected:**	06/11/21
Lab Code:	R2105874-003	**Date Received:**	06/12/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	WG-9954-061121-SG-22	**Date Collected:**	06/11/21
Lab Code:	R2105874-004	**Date Received:**	06/12/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061121-SG-23	**Date Collected:**	06/11/21
Lab Code:	R2105874-005	**Date Received:**	06/12/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061121-SG-24	**Date Collected:**	06/11/21
Lab Code:	R2105874-006	**Date Received:**	06/12/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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	06/18/21 19:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 19:51	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 19:51	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 19:51	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 19:51	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 19:51	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 19:51	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 19:51	
2-Hexanone	10 U	10	0.20	1	06/18/21 19:51	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 19:51	
Acetone	10 U	10	5.0	1	06/18/21 19:51	
Benzene	5.0 U	5.0	0.20	1	06/18/21 19:51	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 19:51	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 19:51	
Bromomethane	**0.89 J**	5.0	0.70	1	06/18/21 19:51	
Carbon Disulfide	**1.0 J**	10	0.42	1	06/18/21 19:51	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 19:51	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 19:51	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 19:51	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 19:51	
Chloromethane	**0.40 J**	5.0	0.28	1	06/18/21 19:51	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 19:51	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 19:51	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 19:51	
Styrene	5.0 U	5.0	0.20	1	06/18/21 19:51	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 19:51	
Toluene	5.0 U	5.0	0.20	1	06/18/21 19:51	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 19:51	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 19:51	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 19:51	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 19:51	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 19:51	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 19:51	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 19:51	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 19:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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	06/18/21 19:51	
Dibromofluoromethane	103	80 - 116	06/18/21 19:51	
Toluene-d8	105	87 - 121	06/18/21 19:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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
000096-47-9	Furan, tetrahydro-2-methyl-	5.51	60.9	JN
001003-38-9	Furan, tetrahydro-2,5-dimethyl-	6.29	5.7	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	06/18/21 20:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 20:13	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 20:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 20:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 20:13	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 20:13	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 20:13	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 20:13	
2-Hexanone	10 U	10	0.20	1	06/18/21 20:13	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 20:13	
Acetone	10 U	10	5.0	1	06/18/21 20:13	
Benzene	5.0 U	5.0	0.20	1	06/18/21 20:13	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 20:13	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 20:13	
Bromomethane	**1.2 J**	5.0	0.70	1	06/18/21 20:13	
Carbon Disulfide	10 U	10	0.42	1	06/18/21 20:13	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 20:13	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 20:13	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 20:13	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 20:13	
Chloromethane	**0.45 J**	5.0	0.28	1	06/18/21 20:13	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 20:13	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 20:13	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 20:13	
Styrene	5.0 U	5.0	0.20	1	06/18/21 20:13	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 20:13	
Toluene	5.0 U	5.0	0.20	1	06/18/21 20:13	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 20:13	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 20:13	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 20:13	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 20:13	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 20:13	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 20:13	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 20:13	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 20:13	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	06/18/21 20:13	
Dibromofluoromethane	101	80 - 116	06/18/21 20:13	
Toluene-d8	105	87 - 121	06/18/21 20:13	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	1.36	9.5	J
000096-47-9	Furan, tetrahydro-2-methyl-	5.51	60.5	JN
001003-38-9	Furan, tetrahydro-2,5-dimethyl-	6.29	5.5	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:10
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	TB-9954-061121-SG-004	**Units:**	ug/L
Lab Code:	R2105874-003	**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	06/18/21 20:35	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.20	1	06/18/21 20:35	
1,1,2-Trichloroethane	5.0	U	5.0	0.20	1	06/18/21 20:35	
1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	0.20	1	06/18/21 20:35	
1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	0.20	1	06/18/21 20:35	
1,2-Dichloroethane	5.0	U	5.0	0.20	1	06/18/21 20:35	
1,2-Dichloropropane	5.0	U	5.0	0.20	1	06/18/21 20:35	
2-Butanone (MEK)	10	U	10	0.78	1	06/18/21 20:35	
2-Hexanone	10	U	10	0.20	1	06/18/21 20:35	
4-Methyl-2-pentanone	10	U	10	0.20	1	06/18/21 20:35	
Acetone	10	U	10	5.0	1	06/18/21 20:35	
Benzene	5.0	U	5.0	0.20	1	06/18/21 20:35	
Bromodichloromethane	5.0	U	5.0	0.20	1	06/18/21 20:35	
Bromoform	5.0	U	5.0	0.25	1	06/18/21 20:35	
Bromomethane	**0.82**	**J**	5.0	0.70	1	06/18/21 20:35	
Carbon Disulfide	10	U	10	0.42	1	06/18/21 20:35	
Carbon Tetrachloride	5.0	U	5.0	0.34	1	06/18/21 20:35	
Chlorobenzene	5.0	U	5.0	0.20	1	06/18/21 20:35	
Chloroethane	5.0	U	5.0	0.23	1	06/18/21 20:35	
Chloroform	5.0	U	5.0	0.24	1	06/18/21 20:35	
Chloromethane	**0.77**	**J**	5.0	0.28	1	06/18/21 20:35	
Dibromochloromethane	5.0	U	5.0	0.20	1	06/18/21 20:35	
Dichloromethane	5.0	U	5.0	0.65	1	06/18/21 20:35	
Ethylbenzene	5.0	U	5.0	0.20	1	06/18/21 20:35	
Styrene	5.0	U	5.0	0.20	1	06/18/21 20:35	
Tetrachloroethene (PCE)	5.0	U	5.0	0.21	1	06/18/21 20:35	
Toluene	5.0	U	5.0	0.20	1	06/18/21 20:35	
Trichloroethene (TCE)	5.0	U	5.0	0.20	1	06/18/21 20:35	
Vinyl Acetate	10	U	10	1.1	1	06/18/21 20:35	
Vinyl Chloride	5.0	U	5.0	0.20	1	06/18/21 20:35	
Xylenes, Total	5.0	U	5.0	0.23	1	06/18/21 20:35	
cis-1,2-Dichloroethene	5.0	U	5.0	0.23	1	06/18/21 20:35	
cis-1,3-Dichloropropene	5.0	U	5.0	0.20	1	06/18/21 20:35	
trans-1,2-Dichloroethene	5.0	U	5.0	0.20	1	06/18/21 20:35	
trans-1,3-Dichloropropene	5.0	U	5.0	0.23	1	06/18/21 20:35	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:10
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	TB-9954-061121-SG-004	**Units:**	ug/L
Lab Code:	R2105874-003	**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	06/18/21 20:35	
Dibromofluoromethane	100	80 - 116	06/18/21 20:35	
Toluene-d8	105	87 - 121	06/18/21 20:35	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:10
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	TB-9954-061121-SG-004	**Units:**	ug/L
Lab Code:	R2105874-003	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	06/21/21 14:09	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/21/21 14:09	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/21/21 14:09	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/21/21 14:09	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/21/21 14:09	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/21/21 14:09	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/21/21 14:09	
2-Butanone (MEK)	10 U	10	0.78	1	06/21/21 14:09	
2-Hexanone	10 U	10	0.20	1	06/21/21 14:09	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/21/21 14:09	
Acetone	10 U	10	5.0	1	06/21/21 14:09	
Benzene	5.0 U	5.0	0.20	1	06/21/21 14:09	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/21/21 14:09	
Bromoform	5.0 U	5.0	0.25	1	06/21/21 14:09	
Bromomethane	5.0 U	5.0	0.70	1	06/21/21 14:09	
Carbon Disulfide	10 U	10	0.42	1	06/21/21 14:09	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/21/21 14:09	
Chlorobenzene	5.0 U	5.0	0.20	1	06/21/21 14:09	
Chloroethane	5.0 U	5.0	0.23	1	06/21/21 14:09	
Chloroform	5.0 U	5.0	0.24	1	06/21/21 14:09	
Chloromethane	5.0 U	5.0	0.28	1	06/21/21 14:09	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/21/21 14:09	
Dichloromethane	5.0 U	5.0	0.65	1	06/21/21 14:09	
Ethylbenzene	5.0 U	5.0	0.20	1	06/21/21 14:09	
Styrene	5.0 U	5.0	0.20	1	06/21/21 14:09	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/21/21 14:09	
Toluene	5.0 U	5.0	0.20	1	06/21/21 14:09	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/21/21 14:09	
Vinyl Acetate	10 U	10	1.1	1	06/21/21 14:09	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/21/21 14:09	
Xylenes, Total	5.0 U	5.0	0.23	1	06/21/21 14:09	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/21/21 14:09	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/21/21 14:09	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/21/21 14:09	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/21/21 14:09	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	86	85 - 122	06/21/21 14:09	
Dibromofluoromethane	93	80 - 116	06/21/21 14:09	
Toluene-d8	96	87 - 121	06/21/21 14:09	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	1.44	7.1	JN
	unknown	1.56	26.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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	06/18/21 20:58	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 20:58	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 20:58	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 20:58	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 20:58	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 20:58	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 20:58	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 20:58	
2-Hexanone	10 U	10	0.20	1	06/18/21 20:58	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 20:58	
Acetone	10 U	10	5.0	1	06/18/21 20:58	
Benzene	5.0 U	5.0	0.20	1	06/18/21 20:58	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 20:58	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 20:58	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 20:58	
Carbon Disulfide	10 U	10	0.42	1	06/18/21 20:58	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 20:58	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 20:58	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 20:58	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 20:58	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 20:58	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 20:58	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 20:58	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 20:58	
Styrene	5.0 U	5.0	0.20	1	06/18/21 20:58	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 20:58	
Toluene	5.0 U	5.0	0.20	1	06/18/21 20:58	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 20:58	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 20:58	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 20:58	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 20:58	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 20:58	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 20:58	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 20:58	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 20:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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	06/18/21 20:58	
Dibromofluoromethane	101	80 - 116	06/18/21 20:58	
Toluene-d8	105	87 - 121	06/18/21 20:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	06/21/21 14:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/21/21 14:31	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/21/21 14:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/21/21 14:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/21/21 14:31	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/21/21 14:31	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/21/21 14:31	
2-Butanone (MEK)	10 U	10	0.78	1	06/21/21 14:31	
2-Hexanone	10 U	10	0.20	1	06/21/21 14:31	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/21/21 14:31	
Acetone	10 U	10	5.0	1	06/21/21 14:31	
Benzene	5.0 U	5.0	0.20	1	06/21/21 14:31	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/21/21 14:31	
Bromoform	5.0 U	5.0	0.25	1	06/21/21 14:31	
Bromomethane	5.0 U	5.0	0.70	1	06/21/21 14:31	
Carbon Disulfide	**0.51 J**	10	0.42	1	06/21/21 14:31	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/21/21 14:31	
Chlorobenzene	5.0 U	5.0	0.20	1	06/21/21 14:31	
Chloroethane	5.0 U	5.0	0.23	1	06/21/21 14:31	
Chloroform	5.0 U	5.0	0.24	1	06/21/21 14:31	
Chloromethane	5.0 U	5.0	0.28	1	06/21/21 14:31	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/21/21 14:31	
Dichloromethane	5.0 U	5.0	0.65	1	06/21/21 14:31	
Ethylbenzene	5.0 U	5.0	0.20	1	06/21/21 14:31	
Styrene	5.0 U	5.0	0.20	1	06/21/21 14:31	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/21/21 14:31	
Toluene	5.0 U	5.0	0.20	1	06/21/21 14:31	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/21/21 14:31	
Vinyl Acetate	10 U	10	1.1	1	06/21/21 14:31	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/21/21 14:31	
Xylenes, Total	5.0 U	5.0	0.23	1	06/21/21 14:31	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/21/21 14:31	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/21/21 14:31	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/21/21 14:31	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/21/21 14:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	06/21/21 14:31	
Dibromofluoromethane	99	80 - 116	06/21/21 14:31	
Toluene-d8	101	87 - 121	06/21/21 14:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	1.37	8.7	J
007446-09-5	Sulfur dioxide	1.56	39.3	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
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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	1.2	1	06/21/21 16:18	6/17/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 16:18	6/17/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 16:18	6/17/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 16:18	6/17/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 16:18	6/17/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 16:18	6/17/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 16:18	6/17/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 16:18	6/17/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 16:18	6/17/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
4-Nitrophenol	45 U	45	6.4	1	06/21/21 16:18	6/17/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
Anthracene	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 16:18	6/17/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 16:18	6/17/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
Benzoic Acid	45 U	45	36	1	06/21/21 16:18	6/17/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 16:18	6/17/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 16:18	6/17/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 16:18	6/17/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
Chrysene	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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	1.7	1	06/21/21 16:18	6/17/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 16:18	6/17/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 16:18	6/17/21	
Fluorene	9.1 U	9.1	1.3	1	06/21/21 16:18	6/17/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 16:18	6/17/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 16:18	6/17/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 16:18	6/17/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 16:18	6/17/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 16:18	6/17/21	
Isophorone	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 16:18	6/17/21	
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 16:18	6/17/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 16:18	6/17/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 16:18	6/17/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 16:18	6/17/21	
Phenol	9.1 U	9.1	1.0	1	06/21/21 16:18	6/17/21	
Pyrene	9.1 U	9.1	1.5	1	06/21/21 16:18	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	06/21/21 16:18	
2-Fluorobiphenyl	49	31 - 118	06/21/21 16:18	
2-Fluorophenol	42	10 - 105	06/21/21 16:18	
Nitrobenzene-d5	57	31 - 110	06/21/21 16:18	
Phenol-d6	29	10 - 107	06/21/21 16:18	
p-Terphenyl-d14	68	10 - 165	06/21/21 16:18	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	6.28	4.3	J
	unknown	6.29	4.8	J
	unknown	7.33	45	J
	unknown	7.41	4.1	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	1.2	1	06/21/21 17:43	6/17/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 17:43	6/17/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 17:43	6/17/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 17:43	6/17/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 17:43	6/17/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 17:43	6/17/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 17:43	6/17/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 17:43	6/17/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 17:43	6/17/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
4-Nitrophenol	45 U	45	6.4	1	06/21/21 17:43	6/17/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
Anthracene	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 17:43	6/17/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 17:43	6/17/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
Benzoic Acid	45 U	45	36	1	06/21/21 17:43	6/17/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 17:43	6/17/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 17:43	6/17/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 17:43	6/17/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
Chrysene	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	1.7	1	06/21/21 17:43	6/17/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 17:43	6/17/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 17:43	6/17/21	
Fluorene	9.1 U	9.1	1.3	1	06/21/21 17:43	6/17/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 17:43	6/17/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 17:43	6/17/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 17:43	6/17/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 17:43	6/17/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 17:43	6/17/21	
Isophorone	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 17:43	6/17/21	
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 17:43	6/17/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 17:43	6/17/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 17:43	6/17/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 17:43	6/17/21	
Phenol	9.1 U	9.1	1.0	1	06/21/21 17:43	6/17/21	
Pyrene	9.1 U	9.1	1.5	1	06/21/21 17:43	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	06/21/21 17:43	
2-Fluorobiphenyl	54	31 - 118	06/21/21 17:43	
2-Fluorophenol	45	10 - 105	06/21/21 17:43	
Nitrobenzene-d5	61	31 - 110	06/21/21 17:43	
Phenol-d6	31	10 - 107	06/21/21 17:43	
p-Terphenyl-d14	69	10 - 165	06/21/21 17:43	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	6.28	4.7	J
	unknown	6.29	5.6	J
	unknown	7.32	46	J
	unknown	7.42	4.3	J

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	1.2	1	06/21/21 18:12	6/17/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 18:12	6/17/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 18:12	6/17/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 18:12	6/17/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 18:12	6/17/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 18:12	6/17/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 18:12	6/17/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 18:12	6/17/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 18:12	6/17/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
4-Nitrophenol	45 U	45	6.4	1	06/21/21 18:12	6/17/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
Anthracene	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 18:12	6/17/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 18:12	6/17/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
Benzoic Acid	45 U	45	36	1	06/21/21 18:12	6/17/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 18:12	6/17/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 18:12	6/17/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 18:12	6/17/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
Chrysene	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	1.7	1	06/21/21 18:12	6/17/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 18:12	6/17/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 18:12	6/17/21	
Fluorene	9.1 U	9.1	1.3	1	06/21/21 18:12	6/17/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 18:12	6/17/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 18:12	6/17/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 18:12	6/17/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 18:12	6/17/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 18:12	6/17/21	
Isophorone	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 18:12	6/17/21	
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 18:12	6/17/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 18:12	6/17/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 18:12	6/17/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 18:12	6/17/21	
Phenol	9.1 U	9.1	1.0	1	06/21/21 18:12	6/17/21	
Pyrene	9.1 U	9.1	1.5	1	06/21/21 18:12	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	06/21/21 18:12	
2-Fluorobiphenyl	49	31 - 118	06/21/21 18:12	
2-Fluorophenol	42	10 - 105	06/21/21 18:12	
Nitrobenzene-d5	54	31 - 110	06/21/21 18:12	
Phenol-d6	29	10 - 107	06/21/21 18:12	
p-Terphenyl-d14	67	10 - 165	06/21/21 18:12	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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	1.2	1	06/21/21 18:40	6/17/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 18:40	6/17/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 18:40	6/17/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 18:40	6/17/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 18:40	6/17/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 18:40	6/17/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 18:40	6/17/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 18:40	6/17/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 18:40	6/17/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
4-Nitrophenol	45 U	45	6.4	1	06/21/21 18:40	6/17/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
Anthracene	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 18:40	6/17/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 18:40	6/17/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
Benzoic Acid	45 U	45	36	1	06/21/21 18:40	6/17/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 18:40	6/17/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 18:40	6/17/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 18:40	6/17/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
Chrysene	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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	1.7	1	06/21/21 18:40	6/17/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 18:40	6/17/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 18:40	6/17/21	
Fluorene	9.1 U	9.1	1.3	1	06/21/21 18:40	6/17/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 18:40	6/17/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 18:40	6/17/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 18:40	6/17/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 18:40	6/17/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 18:40	6/17/21	
Isophorone	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 18:40	6/17/21	
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 18:40	6/17/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 18:40	6/17/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 18:40	6/17/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 18:40	6/17/21	
Phenol	9.1 U	9.1	1.0	1	06/21/21 18:40	6/17/21	
Pyrene	9.1 U	9.1	1.5	1	06/21/21 18:40	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	35 - 141	06/21/21 18:40	
2-Fluorobiphenyl	48	31 - 118	06/21/21 18:40	
2-Fluorophenol	40	10 - 105	06/21/21 18:40	
Nitrobenzene-d5	54	31 - 110	06/21/21 18:40	
Phenol-d6	28	10 - 107	06/21/21 18:40	
p-Terphenyl-d14	53	10 - 165	06/21/21 18:40	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	1.2	1	06/21/21 19:09	6/17/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
2,4-Dinitrophenol	45 U	45	20	1	06/21/21 19:09	6/17/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/21/21 19:09	6/17/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/21/21 19:09	6/17/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/21/21 19:09	6/17/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
3- and 4-Methylphenol Coelution	**3.1 J**	9.1	1.2	1	06/21/21 19:09	6/17/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/21/21 19:09	6/17/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/21/21 19:09	6/17/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/21/21 19:09	6/17/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/21/21 19:09	6/17/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
4-Nitrophenol	45 U	45	6.4	1	06/21/21 19:09	6/17/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
Anthracene	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/21/21 19:09	6/17/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/21/21 19:09	6/17/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
Benzoic Acid	45 U	45	36	1	06/21/21 19:09	6/17/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/21/21 19:09	6/17/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/21/21 19:09	6/17/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/21/21 19:09	6/17/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
Chrysene	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	1.7	1	06/21/21 19:09	6/17/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/21/21 19:09	6/17/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/21/21 19:09	6/17/21	
Fluorene	9.1 U	9.1	1.3	1	06/21/21 19:09	6/17/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/21/21 19:09	6/17/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/21/21 19:09	6/17/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/21/21 19:09	6/17/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/21/21 19:09	6/17/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/21/21 19:09	6/17/21	
Isophorone	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/21/21 19:09	6/17/21	
Naphthalene	9.1 U	9.1	1.2	1	06/21/21 19:09	6/17/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/21/21 19:09	6/17/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/21/21 19:09	6/17/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/21/21 19:09	6/17/21	
Phenol	9.1 U	9.1	1.0	1	06/21/21 19:09	6/17/21	
Pyrene	9.1 U	9.1	1.5	1	06/21/21 19:09	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	74	35 - 141	06/21/21 19:09	
2-Fluorobiphenyl	44	31 - 118	06/21/21 19:09	
2-Fluorophenol	42	10 - 105	06/21/21 19:09	
Nitrobenzene-d5	52	31 - 110	06/21/21 19:09	
Phenol-d6	28	10 - 107	06/21/21 19:09	
p-Terphenyl-d14	67	10 - 165	06/21/21 19:09	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	8.05	9.2	JN

Semivolatile Organic Compounds by GC

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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	0.020	1	06/19/21 00:22	6/16/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Aldrin	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Dieldrin	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Endrin	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Heptachlor	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/19/21 00:22	6/16/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
beta-BHC	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
delta-BHC	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/19/21 00:22	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	31	10 - 164	06/19/21 00:22	
Tetrachloro-m-xylene	50	10 - 147	06/19/21 00:22	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	0.020	1	06/19/21 00:43	6/16/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Aldrin	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Dieldrin	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Endrin	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Heptachlor	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/19/21 00:43	6/16/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
beta-BHC	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
delta-BHC	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/19/21 00:43	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 164	06/19/21 00:43	
Tetrachloro-m-xylene	63	10 - 147	06/19/21 00:43	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	0.020	1	06/19/21 01:03	6/16/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Aldrin	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Dieldrin	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Endrin	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Heptachlor	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/19/21 01:03	6/16/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
beta-BHC	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
delta-BHC	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/19/21 01:03	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	06/19/21 01:03	
Tetrachloro-m-xylene	60	10 - 147	06/19/21 01:03	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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	0.020	1	06/23/21 18:19	6/17/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 18:19	6/17/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
delta-BHC	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 18:19	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	20	10 - 164	06/23/21 18:19	
Tetrachloro-m-xylene	56	10 - 147	06/23/21 18:19	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	0.020	1	06/23/21 23:00	6/17/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 23:00	6/17/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
delta-BHC	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 23:00	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	57	10 - 164	06/23/21 23:00	
Tetrachloro-m-xylene	52	10 - 147	06/23/21 23:00	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**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	0.50	1	06/19/21 05:59	6/16/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/19/21 05:59	6/16/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/19/21 05:59	6/16/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/19/21 05:59	6/16/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/19/21 05:59	6/16/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/19/21 05:59	6/16/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/19/21 05:59	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	31	10 - 152	06/19/21 05:59	
Tetrachloro-m-xylene	45	14 - 129	06/19/21 05:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 09:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-21	**Units:**	ug/L
Lab Code:	R2105874-002	**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	0.50	1	06/19/21 06:18	6/16/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/19/21 06:18	6/16/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/19/21 06:18	6/16/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/19/21 06:18	6/16/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/19/21 06:18	6/16/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/19/21 06:18	6/16/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/19/21 06:18	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	31	10 - 152	06/19/21 06:18	
Tetrachloro-m-xylene	59	14 - 129	06/19/21 06:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 10:15
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-22	**Units:**	ug/L
Lab Code:	R2105874-004	**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	0.50	1	06/19/21 06:38	6/16/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/19/21 06:38	6/16/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/19/21 06:38	6/16/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/19/21 06:38	6/16/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/19/21 06:38	6/16/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/19/21 06:38	6/16/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/19/21 06:38	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 152	06/19/21 06:38	
Tetrachloro-m-xylene	55	14 - 129	06/19/21 06:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:00
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-23	**Units:**	ug/L
Lab Code:	R2105874-005	**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	0.50	1	06/18/21 18:25	6/17/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 18:25	6/17/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 18:25	6/17/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 18:25	6/17/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 18:25	6/17/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 18:25	6/17/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 18:25	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	16	10 - 152	06/18/21 18:25	
Tetrachloro-m-xylene	42	14 - 129	06/18/21 18:25	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21 11:55
Sample Matrix:	Water	**Date Received:**	06/12/21 09:00
Sample Name:	WG-9954-061121-SG-24	**Units:**	ug/L
Lab Code:	R2105874-006	**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	0.50	1	06/18/21 18:45	6/17/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/18/21 18:45	6/17/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/18/21 18:45	6/17/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/18/21 18:45	6/17/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/18/21 18:45	6/17/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/18/21 18:45	6/17/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/18/21 18:45	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 152	06/18/21 18:45	
Tetrachloro-m-xylene	45	14 - 129	06/18/21 18:45	

QC Summary 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

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-061121-SG-20	R2105874-001	97	103	105
WG-9954-061121-SG-21	R2105874-002	97	101	105
TB-9954-061121-SG-004	R2105874-003	97	100	105
WG-9954-061121-SG-22	R2105874-004	86	93	96
WG-9954-061121-SG-23	R2105874-005	97	101	105
WG-9954-061121-SG-24	R2105874-006	94	99	101
Method Blank	RQ2107002-06	94	95	101
Lab Control Sample	RQ2107002-04	100	101	103
Method Blank	RQ2107077-06	86	94	95
Lab Control Sample	RQ2107077-03	96	100	100

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107002-06	**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	06/18/21 14:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/18/21 14:04	
2-Butanone (MEK)	10 U	10	0.78	1	06/18/21 14:04	
2-Hexanone	10 U	10	0.20	1	06/18/21 14:04	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/18/21 14:04	
Acetone	10 U	10	5.0	1	06/18/21 14:04	
Benzene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
Bromoform	5.0 U	5.0	0.25	1	06/18/21 14:04	
Bromomethane	5.0 U	5.0	0.70	1	06/18/21 14:04	
Carbon Disulfide	10 U	10	0.42	1	06/18/21 14:04	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/18/21 14:04	
Chlorobenzene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Chloroethane	5.0 U	5.0	0.23	1	06/18/21 14:04	
Chloroform	5.0 U	5.0	0.24	1	06/18/21 14:04	
Chloromethane	5.0 U	5.0	0.28	1	06/18/21 14:04	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/18/21 14:04	
Dichloromethane	5.0 U	5.0	0.65	1	06/18/21 14:04	
Ethylbenzene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Styrene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/18/21 14:04	
Toluene	5.0 U	5.0	0.20	1	06/18/21 14:04	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/18/21 14:04	
Vinyl Acetate	10 U	10	1.1	1	06/18/21 14:04	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/18/21 14:04	
Xylenes, Total	5.0 U	5.0	0.23	1	06/18/21 14:04	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/18/21 14:04	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/18/21 14:04	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/18/21 14:04	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/18/21 14:04	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107002-06	**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	06/18/21 14:04	
Dibromofluoromethane	95	80 - 116	06/18/21 14:04	
Toluene-d8	101	87 - 121	06/18/21 14:04	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107002-06	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107077-06	**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	06/21/21 13:03	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/21/21 13:03	
2-Butanone (MEK)	10 U	10	0.78	1	06/21/21 13:03	
2-Hexanone	10 U	10	0.20	1	06/21/21 13:03	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/21/21 13:03	
Acetone	10 U	10	5.0	1	06/21/21 13:03	
Benzene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
Bromoform	5.0 U	5.0	0.25	1	06/21/21 13:03	
Bromomethane	5.0 U	5.0	0.70	1	06/21/21 13:03	
Carbon Disulfide	10 U	10	0.42	1	06/21/21 13:03	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/21/21 13:03	
Chlorobenzene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Chloroethane	5.0 U	5.0	0.23	1	06/21/21 13:03	
Chloroform	5.0 U	5.0	0.24	1	06/21/21 13:03	
Chloromethane	5.0 U	5.0	0.28	1	06/21/21 13:03	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/21/21 13:03	
Dichloromethane	5.0 U	5.0	0.65	1	06/21/21 13:03	
Ethylbenzene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Styrene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/21/21 13:03	
Toluene	5.0 U	5.0	0.20	1	06/21/21 13:03	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/21/21 13:03	
Vinyl Acetate	10 U	10	1.1	1	06/21/21 13:03	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/21/21 13:03	
Xylenes, Total	5.0 U	5.0	0.23	1	06/21/21 13:03	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/21/21 13:03	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/21/21 13:03	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/21/21 13:03	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/21/21 13:03	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107077-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	06/21/21 13:03	
Dibromofluoromethane	94	80 - 116	06/21/21 13:03	
Toluene-d8	95	87 - 121	06/21/21 13:03	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107077-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.56	9.8	J

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/18/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107002-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.8	20.0	94	75-125
1,1,2,2-Tetrachloroethane	8260C	19.1	20.0	96	78-126
1,1,2-Trichloroethane	8260C	18.3	20.0	91	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.3	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.1	20.0	115	71-118
1,2-Dichloroethane	8260C	18.4	20.0	92	71-127
1,2-Dichloropropane	8260C	19.7	20.0	98	80-119
2-Butanone (MEK)	8260C	19.6	20.0	98	61-137
2-Hexanone	8260C	19.6	20.0	98	63-124
4-Methyl-2-pentanone	8260C	19.6	20.0	98	66-124
Acetone	8260C	18.4	20.0	92	40-161
Benzene	8260C	18.6	20.0	93	79-119
Bromodichloromethane	8260C	17.7	20.0	88	81-123
Bromoform	8260C	15.1	20.0	76	65-146
Bromomethane	8260C	20.1	20.0	101	42-166
Carbon Disulfide	8260C	18.8	20.0	94	66-128
Carbon Tetrachloride	8260C	17.1	20.0	86	70-127
Chlorobenzene	8260C	17.7	20.0	89	80-121
Chloroethane	8260C	24.2	20.0	121	62-131
Chloroform	8260C	19.7	20.0	98	79-120
Chloromethane	8260C	22.4	20.0	112	65-135
Dibromochloromethane	8260C	16.5	20.0	82	72-128
Dichloromethane	8260C	18.0	20.0	90	73-122
Ethylbenzene	8260C	18.5	20.0	93	76-120
Styrene	8260C	18.5	20.0	93	80-124
Tetrachloroethene (PCE)	8260C	17.4	20.0	87	72-125
Toluene	8260C	18.2	20.0	91	79-119
Trichloroethene (TCE)	8260C	17.6	20.0	88	74-122
Vinyl Acetate	8260C	23.0	20.0	115	52-174
Vinyl Chloride	8260C	21.1	20.0	105	74-159
cis-1,2-Dichloroethene	8260C	21.2	20.0	106	80-121
cis-1,3-Dichloropropene	8260C	18.5	20.0	93	77-122
trans-1,2-Dichloroethene	8260C	22.2	20.0	111	73-118

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

Service Request: R2105874
Date Analyzed: 06/18/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107002-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	18.1	20.0	90	71-133

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/21/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107077-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.0	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	19.9	20.0	100	78-126
1,1,2-Trichloroethane	8260C	18.5	20.0	93	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.5	20.0	108	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	27.5	20.0	137 *	71-118
1,2-Dichloroethane	8260C	20.1	20.0	100	71-127
1,2-Dichloropropane	8260C	20.9	20.0	105	80-119
2-Butanone (MEK)	8260C	21.4	20.0	107	61-137
2-Hexanone	8260C	18.7	20.0	94	63-124
4-Methyl-2-pentanone	8260C	19.9	20.0	99	66-124
Acetone	8260C	16.9	20.0	85	40-161
Benzene	8260C	20.7	20.0	103	79-119
Bromodichloromethane	8260C	21.1	20.0	106	81-123
Bromoform	8260C	18.9	20.0	95	65-146
Bromomethane	8260C	18.9	20.0	94	42-166
Carbon Disulfide	8260C	25.7	20.0	129 *	66-128
Carbon Tetrachloride	8260C	20.5	20.0	103	70-127
Chlorobenzene	8260C	20.0	20.0	100	80-121
Chloroethane	8260C	22.3	20.0	112	62-131
Chloroform	8260C	21.3	20.0	106	79-120
Chloromethane	8260C	21.3	20.0	107	65-135
Dibromochloromethane	8260C	19.1	20.0	96	72-128
Dichloromethane	8260C	21.8	20.0	109	73-122
Ethylbenzene	8260C	19.3	20.0	96	76-120
Styrene	8260C	19.5	20.0	98	80-124
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	72-125
Toluene	8260C	19.9	20.0	100	79-119
Trichloroethene (TCE)	8260C	19.5	20.0	98	74-122
Vinyl Acetate	8260C	31.3	20.0	156	52-174
Vinyl Chloride	8260C	20.5	20.0	103	74-159
cis-1,2-Dichloroethene	8260C	22.5	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	77-122
trans-1,2-Dichloroethene	8260C	24.6	20.0	123 *	73-118

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

Service Request: R2105874
Date Analyzed: 06/21/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107077-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	21.9	20.0	109	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
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-061121-SG-20	R2105874-001	75	49	42
WG-9954-061121-SG-21	R2105874-002	84	54	45
WG-9954-061121-SG-22	R2105874-004	78	49	42
WG-9954-061121-SG-23	R2105874-005	76	48	40
WG-9954-061121-SG-24	R2105874-006	74	44	42
Method Blank	RQ2106892-01	64	36	38
Method Blank	RQ2106892-01	66	38	38
Lab Control Sample	RQ2106892-02	81	51	49
Duplicate Lab Control Sample	RQ2106892-03	84	50	50
WG-9954-061121-SG-20 MS	RQ2106892-04	77	54	46
WG-9954-061121-SG-20 DMS	RQ2106892-05	81	53	46

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-061121-SG-20	R2105874-001	57	29	68
WG-9954-061121-SG-21	R2105874-002	61	31	69
WG-9954-061121-SG-22	R2105874-004	54	29	67
WG-9954-061121-SG-23	R2105874-005	54	28	53
WG-9954-061121-SG-24	R2105874-006	52	28	67
Method Blank	RQ2106892-01	49	25	70
Method Blank	RQ2106892-01	49	26	78
Lab Control Sample	RQ2106892-02	60	36	78
Duplicate Lab Control Sample	RQ2106892-03	53	34	77
WG-9954-061121-SG-20 MS	RQ2106892-04	59	31	58
WG-9954-061121-SG-20 DMS	RQ2106892-05	59	32	59

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21
Sample Matrix:	Water	**Date Received:**	06/12/21
		Date Analyzed:	06/21/21
		Date Extracted:	06/17/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106892-04			RQ2106892-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	9.1 U	37.1	72.7	51	36.7	72.7	50	10-127	2	30
1,2-Dichlorobenzene	9.1 U	38.0	72.7	52	36.5	72.7	50	17-105	4	30
1,3-Dichlorobenzene	9.1 U	36.4	72.7	50	35.2	72.7	48	21-99	4	30
1,4-Dichlorobenzene	9.1 U	35.0	72.7	48	35.5	72.7	49	10-124	2	30
2,4,5-Trichlorophenol	9.1 U	57.8	72.7	80	61.7	72.7	85	48-134	6	30
2,4,6-Trichlorophenol	9.1 U	52.5	72.7	72	53.3	72.7	73	44-135	1	30
2,4-Dichlorophenol	9.1 U	46.3	72.7	64	49.5	72.7	68	40-130	6	30
2,4-Dimethylphenol	9.1 U	48.3	72.7	66	51.0	72.7	70	35-99	6	30
2,4-Dinitrophenol	45 U	52.5	72.7	72	56.0	72.7	77	21-168	7	30
2,4-Dinitrotoluene	9.1 U	63.3	72.7	87	63.3	72.7	87	37-143	<1	30
2,6-Dinitrotoluene	9.1 U	66.8	72.7	92	69.9	72.7	96	39-136	4	30
2-Chloronaphthalene	9.1 U	43.5	72.7	60	45.1	72.7	62	40-108	3	30
2-Chlorophenol	9.1 U	44.1	72.7	61	43.8	72.7	60	37-112	2	30
2-Methylnaphthalene	9.1 U	43.6	72.7	60	44.3	72.7	61	34-102	2	30
2-Methylphenol	9.1 U	49.3	72.7	68	50.2	72.7	69	37-102	1	30
2-Nitroaniline	9.1 U	62.6	72.7	86	65.7	72.7	90	40-136	5	30
2-Nitrophenol	9.1 U	45.4	72.7	62	47.4	72.7	65	27-143	5	30
3,3'-Dichlorobenzidine	9.1 U	47.8	72.7	66	51.5	72.7	71	11-131	7	30
3- and 4-Methylphenol Coelution	9.1 U	48.6	72.7	67	50.4	72.7	69	30-95	3	30
3-Nitroaniline	9.1 U	54.5	72.7	75	56.4	72.7	78	19-117	4	30
4,6-Dinitro-2-methylphenol	45 U	61.8	72.7	85	62.6	72.7	86	25-154	1	30
4-Bromophenyl Phenyl Ether	9.1 U	60.2	72.7	83	63.3	72.7	87	39-115	5	30
4-Chloro-3-methylphenol	9.1 U	56.0	72.7	77	57.2	72.7	79	41-126	3	30
4-Chloroaniline	9.1 U	54.8	72.7	75	59.7	72.7	82	19-111	9	30
4-Chlorophenyl Phenyl Ether	9.1 U	56.1	72.7	77	56.2	72.7	77	41-111	<1	30
4-Nitroaniline	9.1 U	56.9	72.7	78	57.5	72.7	79	18-143	1	30
4-Nitrophenol	45 U	34.8 J	72.7	48	34.0 J	72.7	47	10-126	2	30
Acenaphthene	9.1 U	49.1	72.7	68	49.6	72.7	68	43-117	<1	30
Acenaphthylene	9.1 U	53.0	72.7	73	54.1	72.7	74	45-119	1	30
Anthracene	9.1 U	59.4	72.7	82	58.5	72.7	80	45-127	2	30
Benz(a)anthracene	9.1 U	52.7	72.7	72	53.0	72.7	73	46-126	1	30
Benzo(a)pyrene	9.1 U	52.0	72.7	71	50.3	72.7	69	44-114	3	30
Benzo(b)fluoranthene	9.1 U	50.9	72.7	70	51.7	72.7	71	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/11/21
Sample Matrix:	Water	**Date Received:**	06/12/21
		Date Analyzed:	06/21/21
		Date Extracted:	06/17/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061121-SG-20	**Units:**	ug/L
Lab Code:	R2105874-001	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106892-04			RQ2106892-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	9.1 U	53.8	72.7	74	53.2	72.7	73	50-143	1	30
Benzo(k)fluoranthene	9.1 U	54.6	72.7	75	54.7	72.7	75	46-139	<1	30
Benzoic Acid	45 U	61.3	109	56	64.8	109	59	10-94	5	30
Benzyl Alcohol	9.1 U	56.3	72.7	77	59.7	72.7	82	31-109	6	30
2,2'-Oxybis(1-chloropropane)	9.1 U	54.0	72.7	74	53.9	72.7	74	21-126	<1	30
Bis(2-chloroethoxy)methane	9.1 U	64.4	72.7	89	66.4	72.7	91	41-118	2	30
Bis(2-chloroethyl) Ether	9.1 U	50.5	72.7	69	50.8	72.7	70	33-108	1	30
Bis(2-ethylhexyl) Phthalate	9.1 U	58.2	72.7	80	58.5	72.7	80	41-132	<1	30
Butyl Benzyl Phthalate	9.1 U	65.8	72.7	90	65.6	72.7	90	41-148	<1	30
Chrysene	9.1 U	55.9	72.7	77	57.0	72.7	78	47-126	1	30
Di-n-butyl Phthalate	9.1 U	82.8	72.7	114	84.4	72.7	116	43-130	2	30
Di-n-octyl Phthalate	9.1 U	64.3	72.7	88	65.3	72.7	90	40-139	2	30
Dibenz(a,h)anthracene	9.1 U	54.0	72.7	74	54.9	72.7	76	43-136	3	30
Dibenzofuran	9.1 U	52.1	72.7	72	52.9	72.7	73	46-119	1	30
Diethyl Phthalate	9.1 U	58.0	72.7	80	59.5	72.7	82	36-122	2	30
Dimethyl Phthalate	9.1 U	64.5	72.7	89	67.0	72.7	92	33-123	3	30
Fluoranthene	9.1 U	69.9	72.7	96	70.0	72.7	96	43-135	<1	30
Fluorene	9.1 U	55.7	72.7	77	58.2	72.7	80	43-113	4	30
Hexachlorobenzene	9.1 U	61.1	72.7	84	64.8	72.7	89	42-125	6	30
Hexachlorobutadiene	9.1 U	36.9	72.7	51	36.9	72.7	51	10-111	<1	30
Hexachlorocyclopentadiene	9.1 U	10.5	72.7	14	10.2	72.7	14	10-103	<1	30
Hexachloroethane	9.1 U	36.5	72.7	50	36.0	72.7	49	12-101	2	30
Indeno(1,2,3-cd)pyrene	9.1 U	50.4	72.7	69	50.5	72.7	69	49-140	<1	30
Isophorone	9.1 U	56.9	72.7	78	61.1	72.7	84	40-111	7	30
N-Nitrosodi-n-propylamine	9.1 U	51.4	72.7	71	53.3	72.7	73	35-108	3	30
N-Nitrosodiphenylamine	9.1 U	58.6	72.7	81	62.7	72.7	86	43-127	6	30
Naphthalene	9.1 U	41.5	72.7	57	41.9	72.7	58	37-108	2	30
Nitrobenzene	9.1 U	49.0	72.7	67	48.5	72.7	67	35-112	<1	30
Pentachlorophenol (PCP)	45 U	77.7	72.7	107	75.5	72.7	104	29-164	3	30
Phenanthrene	9.1 U	58.8	72.7	81	60.0	72.7	82	46-123	1	30
Phenol	9.1 U	26.1	72.7	36	27.0	72.7	37	10-113	3	30
Pyrene	9.1 U	59.1	72.7	81	60.1	72.7	83	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106892-01	**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	06/21/21 13:47	6/17/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2,4-Dinitrophenol	50 U	50	20	1	06/21/21 13:47	6/17/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/21/21 13:47	6/17/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2-Chlorophenol	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
2-Methylphenol	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
2-Nitroaniline	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
2-Nitrophenol	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
3-Nitroaniline	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/21/21 13:47	6/17/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/21/21 13:47	6/17/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
4-Chloroaniline	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
4-Nitroaniline	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
4-Nitrophenol	50 U	50	6.4	1	06/21/21 13:47	6/17/21	
Acenaphthene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Acenaphthylene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Anthracene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Benz(a)anthracene	10 U	10	1.6	1	06/21/21 13:47	6/17/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Benzoic Acid	50 U	50	36	1	06/21/21 13:47	6/17/21	
Benzyl Alcohol	10 U	10	1.6	1	06/21/21 13:47	6/17/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/21/21 13:47	6/17/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/21/21 13:47	6/17/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Chrysene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106892-01	**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	1.7	1	06/21/21 13:47	6/17/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/21/21 13:47	6/17/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
Dibenzofuran	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Diethyl Phthalate	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Fluoranthene	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
Fluorene	10 U	10	1.3	1	06/21/21 13:47	6/17/21	
Hexachlorobenzene	10 U	10	1.6	1	06/21/21 13:47	6/17/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/21/21 13:47	6/17/21	
Hexachloroethane	10 U	10	1.1	1	06/21/21 13:47	6/17/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/21/21 13:47	6/17/21	
Isophorone	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/21/21 13:47	6/17/21	
Naphthalene	10 U	10	1.2	1	06/21/21 13:47	6/17/21	
Nitrobenzene	10 U	10	1.5	1	06/21/21 13:47	6/17/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/21/21 13:47	6/17/21	
Phenanthrene	10 U	10	1.4	1	06/21/21 13:47	6/17/21	
Phenol	10 U	10	1.0	1	06/21/21 13:47	6/17/21	
Pyrene	10 U	10	1.5	1	06/21/21 13:47	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	35 - 141	06/21/21 13:47	
2-Fluorobiphenyl	36	31 - 118	06/21/21 13:47	
2-Fluorophenol	38	10 - 105	06/21/21 13:47	
Nitrobenzene-d5	49	31 - 110	06/21/21 13:47	
Phenol-d6	25	10 - 107	06/21/21 13:47	
p-Terphenyl-d14	70	10 - 165	06/21/21 13:47	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	13.98	5.0	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106892-01	**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	06/24/21 18:28	6/17/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
2,4-Dinitrophenol	50 U	50	20	1	06/24/21 18:28	6/17/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/24/21 18:28	6/17/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
2-Chlorophenol	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
2-Methylphenol	10 U	10	1.0	1	06/24/21 18:28	6/17/21	
2-Nitroaniline	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
2-Nitrophenol	10 U	10	1.5	1	06/24/21 18:28	6/17/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
3-Nitroaniline	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/24/21 18:28	6/17/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/24/21 18:28	6/17/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
4-Chloroaniline	10 U	10	1.0	1	06/24/21 18:28	6/17/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/24/21 18:28	6/17/21	
4-Nitroaniline	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
4-Nitrophenol	50 U	50	6.4	1	06/24/21 18:28	6/17/21	
Acenaphthene	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
Acenaphthylene	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
Anthracene	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
Benz(a)anthracene	10 U	10	1.6	1	06/24/21 18:28	6/17/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/24/21 18:28	6/17/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
Benzoic Acid	50 U	50	36	1	06/24/21 18:28	6/17/21	
Benzyl Alcohol	10 U	10	1.6	1	06/24/21 18:28	6/17/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/24/21 18:28	6/17/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/24/21 18:28	6/17/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
Chrysene	10 U	10	1.2	1	06/24/21 18:28	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106892-01	**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	1.7	1	06/24/21 18:28	6/17/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/24/21 18:28	6/17/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
Dibenzofuran	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
Diethyl Phthalate	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
Fluoranthene	10 U	10	1.5	1	06/24/21 18:28	6/17/21	
Fluorene	10 U	10	1.3	1	06/24/21 18:28	6/17/21	
Hexachlorobenzene	10 U	10	1.6	1	06/24/21 18:28	6/17/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/24/21 18:28	6/17/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/24/21 18:28	6/17/21	
Hexachloroethane	10 U	10	1.1	1	06/24/21 18:28	6/17/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/24/21 18:28	6/17/21	
Isophorone	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/24/21 18:28	6/17/21	
Naphthalene	10 U	10	1.2	1	06/24/21 18:28	6/17/21	
Nitrobenzene	10 U	10	1.5	1	06/24/21 18:28	6/17/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/24/21 18:28	6/17/21	
Phenanthrene	10 U	10	1.4	1	06/24/21 18:28	6/17/21	
Phenol	10 U	10	1.0	1	06/24/21 18:28	6/17/21	
Pyrene	10 U	10	1.5	1	06/24/21 18:28	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	66	35 - 141	06/24/21 18:28	
2-Fluorobiphenyl	38	31 - 118	06/24/21 18:28	
2-Fluorophenol	38	10 - 105	06/24/21 18:28	
Nitrobenzene-d5	49	31 - 110	06/24/21 18:28	
Phenol-d6	26	10 - 107	06/24/21 18:28	
p-Terphenyl-d14	78	10 - 165	06/24/21 18:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	14.01	8.3	J

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/21/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106892-02			RQ2106892-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	38.5	80.0	48	40.1	80.0	50	10-127	4	30
1,2-Dichlorobenzene	8270D	40.9	80.0	51	41.2	80.0	51	23-130	<1	30
1,3-Dichlorobenzene	8270D	38.4	80.0	48	38.9	80.0	49	21-90	2	30
1,4-Dichlorobenzene	8270D	40.0	80.0	50	39.1	80.0	49	10-124	2	30
2,4,5-Trichlorophenol	8270D	65.4	80.0	82	66.8	80.0	83	48-134	1	30
2,4,6-Trichlorophenol	8270D	57.2	80.0	71	58.9	80.0	74	44-135	4	30
2,4-Dichlorophenol	8270D	52.9	80.0	66	51.4	80.0	64	48-127	3	30
2,4-Dimethylphenol	8270D	54.7	80.0	68	53.9	80.0	67	35-99	1	30
2,4-Dinitrophenol	8270D	57.7	80.0	72	65.4	80.0	82	21-154	13	30
2,4-Dinitrotoluene	8270D	67.3	80.0	84	71.1	80.0	89	54-130	6	30
2,6-Dinitrotoluene	8270D	74.5	80.0	93	74.7	80.0	93	51-127	<1	30
2-Chloronaphthalene	8270D	47.0	80.0	59	45.6	80.0	57	40-108	3	30
2-Chlorophenol	8270D	48.1	80.0	60	48.9	80.0	61	42-112	2	30
2-Methylnaphthalene	8270D	45.2	80.0	57	44.6	80.0	56	34-102	2	30
2-Methylphenol	8270D	57.8	80.0	72	58.5	80.0	73	47-100	1	30
2-Nitroaniline	8270D	69.6	80.0	87	72.8	80.0	91	52-133	4	30
2-Nitrophenol	8270D	48.0	80.0	60	44.8	80.0	56	43-131	7	30
3,3'-Dichlorobenzidine	8270D	63.5	80.0	79	63.0	80.0	79	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	56.2	80.0	70	56.5	80.0	71	40-92	1	30
3-Nitroaniline	8270D	61.5	80.0	77	63.1	80.0	79	42-111	3	30
4,6-Dinitro-2-methylphenol	8270D	66.7	80.0	83	70.5	80.0	88	36-152	6	30
4-Bromophenyl Phenyl Ether	8270D	65.3	80.0	82	71.1	80.0	89	48-114	8	30
4-Chloro-3-methylphenol	8270D	59.9	80.0	75	61.9	80.0	77	52-113	3	30
4-Chloroaniline	8270D	59.8	80.0	75	62.4	80.0	78	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	58.2	80.0	73	59.8	80.0	75	51-107	3	30
4-Nitroaniline	8270D	60.5	80.0	76	63.6	80.0	79	54-133	4	30
4-Nitrophenol	8270D	38.7 J	80.0	48	40.3 J	80.0	50	10-126	4	30
Acenaphthene	8270D	52.1	80.0	65	51.4	80.0	64	52-107	2	30
Acenaphthylene	8270D	56.9	80.0	71	54.9	80.0	69	55-109	3	30
Anthracene	8270D	61.9	80.0	77	65.7	80.0	82	55-116	6	30
Benz(a)anthracene	8270D	66.5	80.0	83	70.3	80.0	88	61-121	6	30
Benzo(a)pyrene	8270D	66.6	80.0	83	70.3	80.0	88	44-114	6	30
Benzo(b)fluoranthene	8270D	67.8	80.0	85	70.6	80.0	88	62-115	3	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/21/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106892-02			RQ2106892-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	71.8	80.0	90	75.9	80.0	95	63-136	5	30
Benzo(k)fluoranthene	8270D	74.3	80.0	93	77.3	80.0	97	49-133	4	30
Benzoic Acid	8270D	60.5	120	50	67.9	120	57	10-94	13	30
Benzyl Alcohol	8270D	64.0	80.0	80	65.2	80.0	81	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	58.3	80.0	73	59.6	80.0	75	32-122	3	30
Bis(2-chloroethoxy)methane	8270D	70.2	80.0	88	64.8	80.0	81	55-110	8	30
Bis(2-chloroethyl) Ether	8270D	55.6	80.0	69	55.2	80.0	69	46-102	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	80.3	80.0	100	83.6	80.0	104	51-132	4	30
Butyl Benzyl Phthalate	8270D	77.3	80.0	97	79.8	80.0	100	41-148	3	30
Chrysene	8270D	71.2	80.0	89	73.9	80.0	92	57-118	3	30
Di-n-butyl Phthalate	8270D	94.3	80.0	118	99.6	80.0	124	57-128	5	30
Di-n-octyl Phthalate	8270D	87.1	80.0	109	90.7	80.0	113	62-124	4	30
Dibenz(a,h)anthracene	8270D	73.1	80.0	91	76.8	80.0	96	54-135	5	30
Dibenzofuran	8270D	54.8	80.0	68	54.8	80.0	69	55-110	1	30
Diethyl Phthalate	8270D	63.9	80.0	80	67.3	80.0	84	53-113	5	30
Dimethyl Phthalate	8270D	70.8	80.0	89	74.1	80.0	93	51-112	4	30
Fluoranthene	8270D	79.1	80.0	99	82.7	80.0	103	66-127	4	30
Fluorene	8270D	60.0	80.0	75	60.1	80.0	75	54-106	<1	30
Hexachlorobenzene	8270D	72.2	80.0	90	75.4	80.0	94	53-123	4	30
Hexachlorobutadiene	8270D	38.5	80.0	48	39.4	80.0	49	16-95	2	30
Hexachlorocyclopentadiene	8270D	10.5	80.0	13	11.5	80.0	14	10-99	7	30
Hexachloroethane	8270D	38.8	80.0	49	37.9	80.0	47	15-92	4	30
Indeno(1,2,3-cd)pyrene	8270D	68.0	80.0	85	73.2	80.0	92	62-137	8	30
Isophorone	8270D	63.7	80.0	80	63.7	80.0	80	50-116	<1	30
N-Nitrosodi-n-propylamine	8270D	58.7	80.0	73	56.2	80.0	70	49-115	4	30
N-Nitrosodiphenylamine	8270D	65.6	80.0	82	67.5	80.0	84	45-123	2	30
Naphthalene	8270D	43.7	80.0	55	44.5	80.0	56	38-99	2	30
Nitrobenzene	8270D	50.3	80.0	63	50.7	80.0	63	46-108	<1	30
Pentachlorophenol (PCP)	8270D	75.7	80.0	95	81.0	80.0	101	29-164	6	30
Phenanthrene	8270D	63.0	80.0	79	66.9	80.0	84	58-118	6	30
Phenol	8270D	31.7	80.0	40	32.4	80.0	40	10-113	<1	30
Pyrene	8270D	66.7	80.0	83	70.6	80.0	88	61-122	6	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-061121-SG-20	R2105874-001	31	50
WG-9954-061121-SG-21	R2105874-002	32	63
WG-9954-061121-SG-22	R2105874-004	24	60
WG-9954-061121-SG-23	R2105874-005	20	56
WG-9954-061121-SG-24	R2105874-006	57	52
Method Blank	RQ2106848-01	59	49
Method Blank	RQ2106848-01	65	52
Method Blank	RQ2106891-01	70	70
Method Blank	RQ2106891-01	58	60
Lab Control Sample	RQ2106848-02	57	49
Lab Control Sample	RQ2106848-02	62	52
Duplicate Lab Control Sample	RQ2106848-03	57	52
Duplicate Lab Control Sample	RQ2106848-03	60	53
Lab Control Sample	RQ2106891-02	77	66
Lab Control Sample	RQ2106891-02	65	58
Duplicate Lab Control Sample	RQ2106891-03	72	65
Duplicate Lab Control Sample	RQ2106891-03	57	53

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**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	06/18/21 17:20	6/16/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Aldrin	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Dieldrin	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endrin	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Heptachlor	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
Toxaphene	0.50 U	0.50	0.50	1	06/18/21 17:20	6/16/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
beta-BHC	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
delta-BHC	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/18/21 17:20	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/18/21 17:20	
Tetrachloro-m-xylene	49	10 - 147	06/18/21 17:20	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**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	06/23/21 14:19	6/16/21	
4,4'-DDE	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
4,4'-DDT	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Aldrin	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Dieldrin	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endosulfan I	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endosulfan II	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endosulfan Sulfate	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endrin	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Endrin Ketone	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Heptachlor	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Heptachlor Epoxide	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Methoxychlor	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
Toxaphene	0.50	U	0.50	0.50	1	06/23/21 14:19	6/16/21	
alpha-BHC	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
alpha-Chlordane	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
beta-BHC	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
delta-BHC	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
gamma-BHC (Lindane)	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	
gamma-Chlordane	0.050	U	0.050	0.020	1	06/23/21 14:19	6/16/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 164	06/23/21 14:19	
Tetrachloro-m-xylene	52	10 - 147	06/23/21 14:19	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106891-01	**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	06/23/21 16:59	6/17/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Aldrin	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Dieldrin	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Endrin	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Heptachlor	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 16:59	6/17/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
beta-BHC	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
delta-BHC	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/23/21 16:59	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106891-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 164	06/23/21 16:59	
Tetrachloro-m-xylene	70	10 - 147	06/23/21 16:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106891-01	**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	06/23/21 22:00	6/17/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Aldrin	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Dieldrin	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Endrin	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Heptachlor	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 22:00	6/17/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
beta-BHC	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
delta-BHC	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/23/21 22:00	6/17/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106891-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	58	10 - 164	06/23/21 22:00	
Tetrachloro-m-xylene	60	10 - 147	06/23/21 22:00	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/18/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106848-02			RQ2106848-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.270	0.400	67	0.294	0.400	74	42-159	9	30
4,4'-DDE	8081B	0.260	0.400	65	0.283	0.400	71	47-147	9	30
4,4'-DDT	8081B	0.278	0.400	69	0.304	0.400	76	41-149	9	30
Aldrin	8081B	0.180	0.400	45	0.205	0.400	51	22-137	13	30
Dieldrin	8081B	0.273	0.400	68	0.296	0.400	74	52-144	8	30
Endosulfan I	8081B	0.270	0.400	67	0.292	0.400	73	52-136	8	30
Endosulfan II	8081B	0.268	0.400	67	0.294	0.400	73	57-138	9	30
Endosulfan Sulfate	8081B	0.263	0.400	66	0.295	0.400	74	34-156	12	30
Endrin	8081B	0.289	0.400	72	0.314	0.400	78	56-143	8	30
Endrin Ketone	8081B	0.271	0.400	68	0.300	0.400	75	59-143	10	30
Heptachlor	8081B	0.214	0.400	54	0.244	0.400	61	32-141	13	30
Heptachlor Epoxide	8081B	0.274	0.400	69	0.296	0.400	74	51-143	8	30
Methoxychlor	8081B	0.298	0.400	75	0.323	0.400	81	56-149	8	30
alpha-BHC	8081B	0.263	0.400	66	0.278	0.400	70	36-151	6	30
alpha-Chlordane	8081B	0.263	0.400	66	0.284	0.400	71	50-139	8	30
beta-BHC	8081B	0.284	0.400	71	0.299	0.400	75	55-149	5	30
delta-BHC	8081B	0.272	0.400	68	0.294	0.400	74	29-159	8	30
gamma-BHC (Lindane)	8081B	0.269	0.400	67	0.286	0.400	71	41-149	6	30
gamma-Chlordane	8081B	0.260	0.400	65	0.277	0.400	69	50-140	6	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-061121-SG-20	R2105874-001	31	45
WG-9954-061121-SG-21	R2105874-002	31	59
WG-9954-061121-SG-22	R2105874-004	23	55
WG-9954-061121-SG-23	R2105874-005	16	42
WG-9954-061121-SG-24	R2105874-006	53	45
Method Blank	RQ2106848-01	54	42
Method Blank	RQ2106891-01	57	62
Lab Control Sample	RQ2106848-02	52	45
Duplicate Lab Control Sample	RQ2106848-03	55	43
Lab Control Sample	RQ2106891-02	61	54
Duplicate Lab Control Sample	RQ2106891-03	63	58

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106848-01	**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	06/19/21 02:01	6/16/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/19/21 02:01	6/16/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/19/21 02:01	6/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 152	06/19/21 02:01	
Tetrachloro-m-xylene	42	14 - 129	06/19/21 02:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105874
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106891-01	**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	06/18/21 17:25	6/17/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/18/21 17:25	6/17/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/18/21 17:25	6/17/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/18/21 17:25	6/17/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/18/21 17:25	6/17/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/18/21 17:25	6/17/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/18/21 17:25	6/17/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	57	10 - 152	06/18/21 17:25	
Tetrachloro-m-xylene	62	14 - 129	06/18/21 17:25	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105874
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/19/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2106848-02			RQ2106848-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.40	4.00	60	2.39	4.00	60	49-123	<1	30
Aroclor 1260	8082A	2.65	4.00	66	2.77	4.00	69	30-120	5	30

July 07, 2021 Service Request No:R2105966

Ms. Kathy Willy
GHD
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 16, 2021
For your reference, these analyses have been assigned our service request number **R2105966.**

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) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/16/2021
Sample Matrix: Water

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:

Nine water samples were received for analysis at ALS Environmental on 06/16/2021. 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, 06/24/2021: 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, 06/24/2021: 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, 06/24/2021: 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.

Semivoa GC:

Method 8081: Attempt to remove sulfur from the extract was insufficient and matrix interference persisted. R2105966-008 MS/DMS reported as follows: Analytes where peak is able to be discerned on one column, that result was reported without column confirmation. All others are reported as normal. Due to matrix interference, RPD for MS/DMS was not within limits for all analytes. No further corrective action possible.

Method 8081B, 729586s: The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Method 8082A, 06/24/2021: 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 8082A, 06/24/2021: 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, 06/22/2021: 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. Bromomethane did not work for curve any samples with hits will be re-ran on compliant curve.

Approved by  Date 07/07/2021

Method 8260C, ICAL: The lower control limit was exceeded for the following analytes in the Initial Calibration Verification (ICV): bromomethane. The field samples analyzed in this sequence did not contain the analyte(s) in question. Since the exceedance equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Method 8260C, ICAL: The lower control limit was exceeded for the following analytes in the Initial Calibration Verification (ICV): Bromomethane . The field samples analyzed in this sequence did not contain the analyte(s) in question. Since the exceedance equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Method 8260C, 06/24/2021: 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. Bromomethane is not linear in the curve. No hits in the samples therefore data not affected.

Approved by _____ Date 07/07/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-061421-SG-025			Lab ID: R2105966-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	2.6	J	0.42	10	ug/L	8260C

CLIENT ID: WG-9954-061421-SG-027			Lab ID: R2105966-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	3.5	J	0.42	10	ug/L	8260C
alpha-BHC	0.051		0.020	0.045	ug/L	8081B
delta-BHC	0.082		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.076		0.020	0.045	ug/L	8081B

CLIENT ID: RB-9954-061421-SG-002			Lab ID: R2105966-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
alpha-BHC	0.062		0.020	0.045	ug/L	8081B
delta-BHC	0.067		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.064		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061421-SG-028			Lab ID: R2105966-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	0.48	J	0.42	10	ug/L	8260C
alpha-BHC	0.050		0.020	0.045	ug/L	8081B
delta-BHC	0.12		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.075		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061421-SG-029			Lab ID: R2105966-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
alpha-BHC	0.13		0.020	0.045	ug/L	8081B
delta-BHC	0.29		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.23		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061421-SG-030			Lab ID: R2105966-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	3.6	J	0.42	10	ug/L	8260C
alpha-BHC	0.065		0.020	0.045	ug/L	8081B
delta-BHC	0.20		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.11		0.020	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) **Service Request:**R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2105966-001	WG-9954-061421-SG-025	6/14/2021	0945
R2105966-002	TB-9954-061421-SG-005	6/14/2021	0905
R2105966-003	WG-9954-061421-SG-026	6/14/2021	1330
R2105966-004	WG-9954-061421-SG-027	6/14/2021	1430
R2105966-005	RB-9954-061421-SG-002	6/14/2021	1510
R2105966-006	WG-9954-061421-SG-028	6/15/2021	1125
R2105966-007	WG-9954-061421-SG-029	6/15/2021	1125
R2105966-008	WG-9954-061421-SG-030	6/15/2021	1300
R2105966-009	WG-9954-061421-SG-031	6/15/2021	1400

CHAIN OF CUSTODY RECORD

COC Number:

ADDRESS: 2055 NIAGARA FALLS BLVD N. FALLS PAGE 1 OF 1

PHONE: FAX:

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /Di			Total # of Containers: ~~165~~ (56) 59

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Grab (G) or Comp ©	Filtered (Y/N)	Analysis Requested: VOC	SVOC	PEST/PCB								Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	WG-9954-061421-SG-025	06/14/21	9:45	W	G	N	X	X	X								7		
2	TB-9954-061421-SG-005	06/14/21	9:05	W	G	N	X										3		
3	WG-9954-061421-SG-026	06/14/21	13:30	W	G	N	X	X	X								7		
4	WG-9954-061421-SG-027	06/14/21	14:30	W	G	N	X	X	X								7		
5	RB-9954-061421-SG-002	06/14/21	15:10	W	G	N	X	X	X								7		
6	WG-9954-061521-SG-028	06/15/21	11:25	W	G	N	X	X	X								7		
7	WG-9954-061521-SG-029	06/15/21	11:25	W	G	N	X	X	X								7		
8	WG-9954-061521-SG-030	06/15/21	13:00	W	G	N	X	X	X								7		
9	WG-9954-061521-SG-031	06/15/21	14:00	W	G	N	X	X	X								7		
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

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GHD
Love Canal:292-402-D02-3100

TAT Required in business days (use separate COCs fro different TATs)
(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time		Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/15/21	1530	1		ALS	6/16/21	1020
2					2				
3					3				

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#_____

T030477

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

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

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

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8081B / Pest OC	8082A / PCB	8270D / SVO	14D 8260C / VOC FP	1	2	3	4	5	Remarks
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 Cilibration Summaries

_X_ 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

R2105966 5

GHD Love Canal:292-402-D02-3100

Project/Client _____ Folder Number _____

Cooler received on 6/16/21 by: @

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	Y N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

3. Temperature Readings Date: 6/16/21 Time: 1033 ID: IR#7 (IR#11) From: (Temp Blank) (Sample Bottle)

Observed Temp (°C)	1.6	0.7					
Within 0-6°C?	(Y) 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 @ on 6/16/21 at 1038

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/16/21 Time: 1416 by: @

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 Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		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: 76636- C2715, 2596

Explain all Discrepancies/ Other Comments:

Headspace: 2 vials TB

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

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105966-001.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-001.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-001.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-001.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-001.05					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-001.06					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-001.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-002.01					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-002.02					

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-002.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-003.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-003.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-003.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-003.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-003.05					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-003.06					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-003.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-004.01					

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-004.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-004.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
		6/24/2021	1751	In Lab / BALLGEIER	
		6/24/2021	1752	R-001-S06 / BALLGEIER	
R2105966-004.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-004.05					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-004.06					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-004.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-005.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-005.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105966-005.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-005.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-005.05					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-005.06					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-005.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-006.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-006.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-006.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1650	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
		6/24/2021	1751	In Lab / BALLGEIER	
		6/24/2021	1752	R-001-S06 / BALLGEIER	

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105966-006.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-006.05					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
R2105966-006.06					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-006.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-007.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0825	In Lab / VSTAUFFER	
R2105966-007.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-007.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-007.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-007.05					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105966-007.06					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0825	In Lab / VSTAUFFER	
R2105966-007.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/18/2021	0829	In Lab / VSTAUFFER	
		6/18/2021	1509	R-002 / VSTAUFFER	
R2105966-008.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0824	In Lab / VSTAUFFER	
R2105966-008.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-008.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-008.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-008.05					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0825	In Lab / VSTAUFFER	
		6/21/2021	0825	In Lab / VSTAUFFER	
R2105966-008.06					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0824	In Lab / VSTAUFFER	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2105966-008.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0825	In Lab / VSTAUFFER	
R2105966-009.01					
	8081B				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-009.02					
	8260C				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-009.03					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
		6/22/2021	1649	In Lab / BALLGEIER	
		6/22/2021	1707	R-001-S06 / BALLGEIER	
R2105966-009.04					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-001 / GLAFORCE	
R2105966-009.05					
	8270D				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/21/2021	0826	In Lab / VSTAUFFER	
R2105966-009.06					
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
R2105966-009.07					
	8082A				
		6/16/2021	1418	SMO / GLAFORCE	
		6/16/2021	1425	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	

Miscellaneous Forms

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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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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 Certifications[1]

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 laboratoryôs 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.

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: WG-9954-061421-SG-025 **Date Collected:** 06/14/21
Lab Code: R2105966-001 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name: TB-9954-061421-SG-005 **Date Collected:** 06/14/21
Lab Code: R2105966-002 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		BALLGEIER

Sample Name: WG-9954-061421-SG-026 **Date Collected:** 06/14/21
Lab Code: R2105966-003 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061421-SG-027 **Date Collected:** 06/14/21
Lab Code: R2105966-004 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: RB-9954-061421-SG-002 **Date Collected:** 06/14/21
Lab Code: R2105966-005 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061421-SG-028 **Date Collected:** 06/15/21
Lab Code: R2105966-006 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061421-SG-029 **Date Collected:** 06/15/21
Lab Code: R2105966-007 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061421-SG-030 **Date Collected:** 06/15/21
Lab Code: R2105966-008 **Date Received:** 06/16/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061421-SG-030	**Date Collected:**	06/15/21
Lab Code:	R2105966-008	**Date Received:**	06/16/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061421-SG-031	**Date Collected:**	06/15/21
Lab Code:	R2105966-009	**Date Received:**	06/16/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

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

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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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**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	06/22/21 18:47	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 18:47	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 18:47	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 18:47	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 18:47	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 18:47	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 18:47	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 18:47	
2-Hexanone	10 U	10	0.20	1	06/22/21 18:47	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 18:47	
Acetone	10 U	10	5.0	1	06/22/21 18:47	
Benzene	5.0 U	5.0	0.20	1	06/22/21 18:47	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 18:47	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 18:47	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 18:47	
Carbon Disulfide	**2.6 J**	10	0.42	1	06/22/21 18:47	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 18:47	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 18:47	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 18:47	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 18:47	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 18:47	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 18:47	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 18:47	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 18:47	
Styrene	5.0 U	5.0	0.20	1	06/22/21 18:47	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 18:47	
Toluene	5.0 U	5.0	0.20	1	06/22/21 18:47	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 18:47	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 18:47	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 18:47	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 18:47	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 18:47	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 18:47	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 18:47	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 18:47	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/22/21 18:47	
Dibromofluoromethane	103	80 - 116	06/22/21 18:47	
Toluene-d8	102	87 - 121	06/22/21 18:47	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.48	121.4	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:05
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	TB-9954-061421-SG-005	**Units:**	ug/L
Lab Code:	R2105966-002	**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	06/22/21 19:09	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 19:09	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 19:09	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 19:09	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 19:09	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 19:09	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 19:09	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 19:09	
2-Hexanone	10 U	10	0.20	1	06/22/21 19:09	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 19:09	
Acetone	10 U	10	5.0	1	06/22/21 19:09	
Benzene	5.0 U	5.0	0.20	1	06/22/21 19:09	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 19:09	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 19:09	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 19:09	
Carbon Disulfide	10 U	10	0.42	1	06/22/21 19:09	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 19:09	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 19:09	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 19:09	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 19:09	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 19:09	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 19:09	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 19:09	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 19:09	
Styrene	5.0 U	5.0	0.20	1	06/22/21 19:09	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 19:09	
Toluene	5.0 U	5.0	0.20	1	06/22/21 19:09	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 19:09	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 19:09	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 19:09	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 19:09	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 19:09	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 19:09	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 19:09	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 19:09	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:05
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	TB-9954-061421-SG-005	**Units:**	ug/L
Lab Code:	R2105966-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/22/21 19:09	
Dibromofluoromethane	103	80 - 116	06/22/21 19:09	
Toluene-d8	102	87 - 121	06/22/21 19:09	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:05
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	TB-9954-061421-SG-005	**Units:**	ug/L
Lab Code:	R2105966-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.48	6.8	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**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	06/22/21 19:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 19:31	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 19:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 19:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 19:31	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 19:31	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 19:31	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 19:31	
2-Hexanone	10 U	10	0.20	1	06/22/21 19:31	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 19:31	
Acetone	10 U	10	5.0	1	06/22/21 19:31	
Benzene	5.0 U	5.0	0.20	1	06/22/21 19:31	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 19:31	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 19:31	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 19:31	
Carbon Disulfide	10 U	10	0.42	1	06/22/21 19:31	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 19:31	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 19:31	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 19:31	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 19:31	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 19:31	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 19:31	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 19:31	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 19:31	
Styrene	5.0 U	5.0	0.20	1	06/22/21 19:31	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 19:31	
Toluene	5.0 U	5.0	0.20	1	06/22/21 19:31	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 19:31	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 19:31	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 19:31	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 19:31	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 19:31	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 19:31	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 19:31	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 19:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/22/21 19:31	
Dibromofluoromethane	103	80 - 116	06/22/21 19:31	
Toluene-d8	103	87 - 121	06/22/21 19:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**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	06/24/21 22:01	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/24/21 22:01	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/24/21 22:01	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/24/21 22:01	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/24/21 22:01	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/24/21 22:01	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/24/21 22:01	
2-Butanone (MEK)	10 U	10	0.78	1	06/24/21 22:01	
2-Hexanone	10 U	10	0.20	1	06/24/21 22:01	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/24/21 22:01	
Acetone	10 U	10	5.0	1	06/24/21 22:01	
Benzene	5.0 U	5.0	0.20	1	06/24/21 22:01	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/24/21 22:01	
Bromoform	5.0 U	5.0	0.25	1	06/24/21 22:01	
Bromomethane	5.0 U	5.0	0.70	1	06/24/21 22:01	
Carbon Disulfide	**3.5 J**	10	0.42	1	06/24/21 22:01	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/24/21 22:01	
Chlorobenzene	5.0 U	5.0	0.20	1	06/24/21 22:01	
Chloroethane	5.0 U	5.0	0.23	1	06/24/21 22:01	
Chloroform	5.0 U	5.0	0.24	1	06/24/21 22:01	
Chloromethane	5.0 U	5.0	0.28	1	06/24/21 22:01	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/24/21 22:01	
Dichloromethane	5.0 U	5.0	0.65	1	06/24/21 22:01	
Ethylbenzene	5.0 U	5.0	0.20	1	06/24/21 22:01	
Styrene	5.0 U	5.0	0.20	1	06/24/21 22:01	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/24/21 22:01	
Toluene	5.0 U	5.0	0.20	1	06/24/21 22:01	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/24/21 22:01	
Vinyl Acetate	10 U	10	1.1	1	06/24/21 22:01	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/24/21 22:01	
Xylenes, Total	5.0 U	5.0	0.23	1	06/24/21 22:01	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/24/21 22:01	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/24/21 22:01	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/24/21 22:01	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/24/21 22:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/24/21 22:01	
Dibromofluoromethane	104	80 - 116	06/24/21 22:01	
Toluene-d8	103	87 - 121	06/24/21 22:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**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	06/22/21 19:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 19:53	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 19:53	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 19:53	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 19:53	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 19:53	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 19:53	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 19:53	
2-Hexanone	10 U	10	0.20	1	06/22/21 19:53	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 19:53	
Acetone	10 U	10	5.0	1	06/22/21 19:53	
Benzene	5.0 U	5.0	0.20	1	06/22/21 19:53	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 19:53	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 19:53	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 19:53	
Carbon Disulfide	10 U	10	0.42	1	06/22/21 19:53	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 19:53	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 19:53	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 19:53	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 19:53	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 19:53	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 19:53	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 19:53	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 19:53	
Styrene	5.0 U	5.0	0.20	1	06/22/21 19:53	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 19:53	
Toluene	5.0 U	5.0	0.20	1	06/22/21 19:53	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 19:53	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 19:53	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 19:53	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 19:53	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 19:53	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 19:53	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 19:53	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 19:53	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/22/21 19:53	
Dibromofluoromethane	104	80 - 116	06/22/21 19:53	
Toluene-d8	103	87 - 121	06/22/21 19:53	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**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	06/24/21 22:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/24/21 22:23	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/24/21 22:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/24/21 22:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/24/21 22:23	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/24/21 22:23	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/24/21 22:23	
2-Butanone (MEK)	10 U	10	0.78	1	06/24/21 22:23	
2-Hexanone	10 U	10	0.20	1	06/24/21 22:23	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/24/21 22:23	
Acetone	10 U	10	5.0	1	06/24/21 22:23	
Benzene	5.0 U	5.0	0.20	1	06/24/21 22:23	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/24/21 22:23	
Bromoform	5.0 U	5.0	0.25	1	06/24/21 22:23	
Bromomethane	5.0 U	5.0	0.70	1	06/24/21 22:23	
Carbon Disulfide	**0.48 J**	10	0.42	1	06/24/21 22:23	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/24/21 22:23	
Chlorobenzene	5.0 U	5.0	0.20	1	06/24/21 22:23	
Chloroethane	5.0 U	5.0	0.23	1	06/24/21 22:23	
Chloroform	5.0 U	5.0	0.24	1	06/24/21 22:23	
Chloromethane	5.0 U	5.0	0.28	1	06/24/21 22:23	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/24/21 22:23	
Dichloromethane	5.0 U	5.0	0.65	1	06/24/21 22:23	
Ethylbenzene	5.0 U	5.0	0.20	1	06/24/21 22:23	
Styrene	5.0 U	5.0	0.20	1	06/24/21 22:23	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/24/21 22:23	
Toluene	5.0 U	5.0	0.20	1	06/24/21 22:23	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/24/21 22:23	
Vinyl Acetate	10 U	10	1.1	1	06/24/21 22:23	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/24/21 22:23	
Xylenes, Total	5.0 U	5.0	0.23	1	06/24/21 22:23	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/24/21 22:23	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/24/21 22:23	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/24/21 22:23	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/24/21 22:23	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/24/21 22:23	
Dibromofluoromethane	103	80 - 116	06/24/21 22:23	
Toluene-d8	102	87 - 121	06/24/21 22:23	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**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	06/22/21 20:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 20:15	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 20:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 20:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 20:15	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 20:15	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 20:15	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 20:15	
2-Hexanone	10 U	10	0.20	1	06/22/21 20:15	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 20:15	
Acetone	10 U	10	5.0	1	06/22/21 20:15	
Benzene	5.0 U	5.0	0.20	1	06/22/21 20:15	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 20:15	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 20:15	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 20:15	
Carbon Disulfide	10 U	10	0.42	1	06/22/21 20:15	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 20:15	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 20:15	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 20:15	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 20:15	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 20:15	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 20:15	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 20:15	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 20:15	
Styrene	5.0 U	5.0	0.20	1	06/22/21 20:15	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 20:15	
Toluene	5.0 U	5.0	0.20	1	06/22/21 20:15	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 20:15	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 20:15	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 20:15	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 20:15	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 20:15	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 20:15	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 20:15	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 20:15	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/22/21 20:15	
Dibromofluoromethane	102	80 - 116	06/22/21 20:15	
Toluene-d8	102	87 - 121	06/22/21 20:15	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.47	131.7	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**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	06/22/21 20:37	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 20:37	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 20:37	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 20:37	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 20:37	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 20:37	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 20:37	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 20:37	
2-Hexanone	10 U	10	0.20	1	06/22/21 20:37	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 20:37	
Acetone	10 U	10	5.0	1	06/22/21 20:37	
Benzene	5.0 U	5.0	0.20	1	06/22/21 20:37	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 20:37	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 20:37	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 20:37	
Carbon Disulfide	**3.6 J**	10	0.42	1	06/22/21 20:37	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 20:37	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 20:37	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 20:37	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 20:37	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 20:37	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 20:37	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 20:37	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 20:37	
Styrene	5.0 U	5.0	0.20	1	06/22/21 20:37	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 20:37	
Toluene	5.0 U	5.0	0.20	1	06/22/21 20:37	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 20:37	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 20:37	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 20:37	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 20:37	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 20:37	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 20:37	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 20:37	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 20:37	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/22/21 20:37	
Dibromofluoromethane	101	80 - 116	06/22/21 20:37	
Toluene-d8	101	87 - 121	06/22/21 20:37	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.27	8.9	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**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	06/22/21 20:59	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 20:59	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 20:59	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 20:59	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 20:59	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 20:59	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 20:59	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 20:59	
2-Hexanone	10 U	10	0.20	1	06/22/21 20:59	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 20:59	
Acetone	10 U	10	5.0	1	06/22/21 20:59	
Benzene	5.0 U	5.0	0.20	1	06/22/21 20:59	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 20:59	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 20:59	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 20:59	
Carbon Disulfide	10 U	10	0.42	1	06/22/21 20:59	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 20:59	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 20:59	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 20:59	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 20:59	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 20:59	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 20:59	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 20:59	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 20:59	
Styrene	5.0 U	5.0	0.20	1	06/22/21 20:59	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 20:59	
Toluene	5.0 U	5.0	0.20	1	06/22/21 20:59	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 20:59	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 20:59	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 20:59	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 20:59	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 20:59	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 20:59	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 20:59	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 20:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/22/21 20:59	
Dibromofluoromethane	105	80 - 116	06/22/21 20:59	
Toluene-d8	105	87 - 121	06/22/21 20:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	5.4	JN
	unknown	1.52	44.1	J

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
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**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	1.2	1	06/24/21 18:56	6/18/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 18:56	6/18/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 18:56	6/18/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 18:56	6/18/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 18:56	6/18/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 18:56	6/18/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 18:56	6/18/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 18:56	6/18/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 18:56	6/18/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 18:56	6/18/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 18:56	6/18/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 18:56	6/18/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
Benzoic Acid	45 U	45	36	1	06/24/21 18:56	6/18/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 18:56	6/18/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 18:56	6/18/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 18:56	6/18/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**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	1.7	1	06/24/21 18:56	6/18/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 18:56	6/18/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 18:56	6/18/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 18:56	6/18/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 18:56	6/18/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 18:56	6/18/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 18:56	6/18/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 18:56	6/18/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 18:56	6/18/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 18:56	6/18/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 18:56	6/18/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 18:56	6/18/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 18:56	6/18/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 18:56	6/18/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 18:56	6/18/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 18:56	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	35 - 141	06/24/21 18:56	
2-Fluorobiphenyl	62	31 - 118	06/24/21 18:56	
2-Fluorophenol	45	10 - 105	06/24/21 18:56	
Nitrobenzene-d5	66	31 - 110	06/24/21 18:56	
Phenol-d6	29	10 - 107	06/24/21 18:56	
p-Terphenyl-d14	67	10 - 165	06/24/21 18:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	14.00	4.0	J
	unknown	2.96	3.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**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	1.2	1	06/24/21 20:22	6/18/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 20:22	6/18/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 20:22	6/18/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 20:22	6/18/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 20:22	6/18/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 20:22	6/18/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 20:22	6/18/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 20:22	6/18/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 20:22	6/18/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 20:22	6/18/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 20:22	6/18/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 20:22	6/18/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
Benzoic Acid	45 U	45	36	1	06/24/21 20:22	6/18/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 20:22	6/18/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 20:22	6/18/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 20:22	6/18/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**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	1.7	1	06/24/21 20:22	6/18/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 20:22	6/18/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 20:22	6/18/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 20:22	6/18/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 20:22	6/18/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 20:22	6/18/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 20:22	6/18/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 20:22	6/18/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 20:22	6/18/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 20:22	6/18/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 20:22	6/18/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 20:22	6/18/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 20:22	6/18/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 20:22	6/18/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 20:22	6/18/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 20:22	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	35 - 141	06/24/21 20:22	
2-Fluorobiphenyl	69	31 - 118	06/24/21 20:22	
2-Fluorophenol	49	10 - 105	06/24/21 20:22	
Nitrobenzene-d5	77	31 - 110	06/24/21 20:22	
Phenol-d6	33	10 - 107	06/24/21 20:22	
p-Terphenyl-d14	63	10 - 165	06/24/21 20:22	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	3.15	4.6	J
	unknown	3.38	5.6	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**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	1.2	1	06/24/21 20:49	6/18/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 20:49	6/18/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 20:49	6/18/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 20:49	6/18/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 20:49	6/18/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 20:49	6/18/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 20:49	6/18/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 20:49	6/18/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 20:49	6/18/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 20:49	6/18/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 20:49	6/18/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 20:49	6/18/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
Benzoic Acid	45 U	45	36	1	06/24/21 20:49	6/18/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 20:49	6/18/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 20:49	6/18/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 20:49	6/18/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**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	1.7	1	06/24/21 20:49	6/18/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 20:49	6/18/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 20:49	6/18/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 20:49	6/18/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 20:49	6/18/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 20:49	6/18/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 20:49	6/18/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 20:49	6/18/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 20:49	6/18/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 20:49	6/18/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 20:49	6/18/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 20:49	6/18/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 20:49	6/18/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 20:49	6/18/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 20:49	6/18/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 20:49	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	06/24/21 20:49	
2-Fluorobiphenyl	59	31 - 118	06/24/21 20:49	
2-Fluorophenol	39	10 - 105	06/24/21 20:49	
Nitrobenzene-d5	62	31 - 110	06/24/21 20:49	
Phenol-d6	25	10 - 107	06/24/21 20:49	
p-Terphenyl-d14	69	10 - 165	06/24/21 20:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	8.03	15	JN
	unknown	8.11	5.5	J

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**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	1.2	1	06/24/21 21:17	6/18/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 21:17	6/18/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 21:17	6/18/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 21:17	6/18/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 21:17	6/18/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 21:17	6/18/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 21:17	6/18/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 21:17	6/18/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 21:17	6/18/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 21:17	6/18/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 21:17	6/18/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 21:17	6/18/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
Benzoic Acid	45 U	45	36	1	06/24/21 21:17	6/18/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 21:17	6/18/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 21:17	6/18/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 21:17	6/18/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**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	1.7	1	06/24/21 21:17	6/18/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 21:17	6/18/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 21:17	6/18/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 21:17	6/18/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 21:17	6/18/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 21:17	6/18/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 21:17	6/18/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 21:17	6/18/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 21:17	6/18/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 21:17	6/18/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 21:17	6/18/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 21:17	6/18/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 21:17	6/18/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 21:17	6/18/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 21:17	6/18/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 21:17	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	69	35 - 141	06/24/21 21:17	
2-Fluorobiphenyl	67	31 - 118	06/24/21 21:17	
2-Fluorophenol	45	10 - 105	06/24/21 21:17	
Nitrobenzene-d5	71	31 - 110	06/24/21 21:17	
Phenol-d6	30	10 - 107	06/24/21 21:17	
p-Terphenyl-d14	85	10 - 165	06/24/21 21:17	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.48	5.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**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	1.2	1	06/24/21 21:45	6/18/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 21:45	6/18/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 21:45	6/18/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 21:45	6/18/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 21:45	6/18/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 21:45	6/18/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 21:45	6/18/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 21:45	6/18/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 21:45	6/18/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 21:45	6/18/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 21:45	6/18/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 21:45	6/18/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
Benzoic Acid	45 U	45	36	1	06/24/21 21:45	6/18/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 21:45	6/18/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 21:45	6/18/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 21:45	6/18/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**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	1.7	1	06/24/21 21:45	6/18/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 21:45	6/18/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 21:45	6/18/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 21:45	6/18/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 21:45	6/18/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 21:45	6/18/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 21:45	6/18/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 21:45	6/18/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 21:45	6/18/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 21:45	6/18/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 21:45	6/18/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 21:45	6/18/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 21:45	6/18/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 21:45	6/18/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 21:45	6/18/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 21:45	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	06/24/21 21:45	
2-Fluorobiphenyl	64	31 - 118	06/24/21 21:45	
2-Fluorophenol	47	10 - 105	06/24/21 21:45	
Nitrobenzene-d5	66	31 - 110	06/24/21 21:45	
Phenol-d6	30	10 - 107	06/24/21 21:45	
p-Terphenyl-d14	67	10 - 165	06/24/21 21:45	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
013798-23-7	Sulfur	8.01	4.0	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**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	1.2	1	06/24/21 16:34	6/21/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 16:34	6/21/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 16:34	6/21/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 16:34	6/21/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 16:34	6/21/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 16:34	6/21/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 16:34	6/21/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 16:34	6/21/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 16:34	6/21/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 16:34	6/21/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 16:34	6/21/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 16:34	6/21/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
Benzoic Acid	45 U	45	36	1	06/24/21 16:34	6/21/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 16:34	6/21/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 16:34	6/21/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 16:34	6/21/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**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	1.7	1	06/24/21 16:34	6/21/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 16:34	6/21/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 16:34	6/21/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 16:34	6/21/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 16:34	6/21/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 16:34	6/21/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 16:34	6/21/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 16:34	6/21/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 16:34	6/21/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 16:34	6/21/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 16:34	6/21/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 16:34	6/21/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 16:34	6/21/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 16:34	6/21/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 16:34	6/21/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 16:34	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	35 - 141	06/24/21 16:34	
2-Fluorobiphenyl	63	31 - 118	06/24/21 16:34	
2-Fluorophenol	44	10 - 105	06/24/21 16:34	
Nitrobenzene-d5	65	31 - 110	06/24/21 16:34	
Phenol-d6	28	10 - 107	06/24/21 16:34	
p-Terphenyl-d14	46	10 - 165	06/24/21 16:34	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.96	3.8	J
000143-07-7	Dodecanoic acid	7.91	4.5	JN
013798-23-7	Sulfur	8.00	12	JN
000057-10-3	n-Hexadecanoic acid	9.70	5.7	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**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	1.2	1	06/24/21 17:03	6/21/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 17:03	6/21/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 17:03	6/21/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 17:03	6/21/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 17:03	6/21/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 17:03	6/21/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 17:03	6/21/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 17:03	6/21/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 17:03	6/21/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 17:03	6/21/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 17:03	6/21/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 17:03	6/21/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
Benzoic Acid	45 U	45	36	1	06/24/21 17:03	6/21/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 17:03	6/21/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 17:03	6/21/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 17:03	6/21/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**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	1.7	1	06/24/21 17:03	6/21/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 17:03	6/21/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 17:03	6/21/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 17:03	6/21/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 17:03	6/21/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 17:03	6/21/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 17:03	6/21/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 17:03	6/21/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 17:03	6/21/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 17:03	6/21/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 17:03	6/21/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 17:03	6/21/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 17:03	6/21/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 17:03	6/21/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 17:03	6/21/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 17:03	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	06/24/21 17:03	
2-Fluorobiphenyl	67	31 - 118	06/24/21 17:03	
2-Fluorophenol	44	10 - 105	06/24/21 17:03	
Nitrobenzene-d5	66	31 - 110	06/24/21 17:03	
Phenol-d6	27	10 - 107	06/24/21 17:03	
p-Terphenyl-d14	40	10 - 165	06/24/21 17:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.96	4.4	J
013798-23-7	Sulfur	8.00	15	JN
000057-10-3	n-Hexadecanoic acid	9.71	8.1	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**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	1.2	1	06/24/21 17:32	6/21/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
2,4-Dinitrophenol	45 U	45	20	1	06/24/21 17:32	6/21/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/24/21 17:32	6/21/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/24/21 17:32	6/21/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/24/21 17:32	6/21/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/24/21 17:32	6/21/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/24/21 17:32	6/21/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/24/21 17:32	6/21/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/24/21 17:32	6/21/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
4-Nitrophenol	45 U	45	6.4	1	06/24/21 17:32	6/21/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
Anthracene	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/24/21 17:32	6/21/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/24/21 17:32	6/21/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
Benzoic Acid	45 U	45	36	1	06/24/21 17:32	6/21/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/24/21 17:32	6/21/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/24/21 17:32	6/21/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/24/21 17:32	6/21/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
Chrysene	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**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	1.7	1	06/24/21 17:32	6/21/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/24/21 17:32	6/21/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/24/21 17:32	6/21/21	
Fluorene	9.1 U	9.1	1.3	1	06/24/21 17:32	6/21/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/24/21 17:32	6/21/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/24/21 17:32	6/21/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/24/21 17:32	6/21/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/24/21 17:32	6/21/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/24/21 17:32	6/21/21	
Isophorone	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/24/21 17:32	6/21/21	
Naphthalene	9.1 U	9.1	1.2	1	06/24/21 17:32	6/21/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/24/21 17:32	6/21/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/24/21 17:32	6/21/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/24/21 17:32	6/21/21	
Phenol	9.1 U	9.1	1.0	1	06/24/21 17:32	6/21/21	
Pyrene	9.1 U	9.1	1.5	1	06/24/21 17:32	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	35 - 141	06/24/21 17:32	
2-Fluorobiphenyl	75	31 - 118	06/24/21 17:32	
2-Fluorophenol	52	10 - 105	06/24/21 17:32	
Nitrobenzene-d5	78	31 - 110	06/24/21 17:32	
Phenol-d6	33	10 - 107	06/24/21 17:32	
p-Terphenyl-d14	47	10 - 165	06/24/21 17:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.96	3.8	J
013798-23-7	Sulfur	7.99	4.9	JN

Semivolatile Organic Compounds by GC

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**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	0.020	1	06/23/21 19:53	6/18/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 19:53	6/18/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
delta-BHC	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 19:53	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	58	10 - 164	06/23/21 19:53	
Tetrachloro-m-xylene	55	10 - 147	06/23/21 19:53	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**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	0.020	1	06/23/21 17:58	6/18/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 17:58	6/18/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
delta-BHC	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 17:58	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	25	10 - 164	06/23/21 17:58	
Tetrachloro-m-xylene	44	10 - 147	06/23/21 17:58	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**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	0.020	1	06/23/21 20:12	6/18/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 20:12	6/18/21	
alpha-BHC	**0.051**	0.045	0.020	1	06/23/21 20:12	6/18/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	
delta-BHC	**0.082**	0.045	0.020	1	06/23/21 20:12	6/18/21	
gamma-BHC (Lindane)	**0.076**	0.045	0.020	1	06/23/21 20:12	6/18/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 20:12	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 164	06/23/21 20:12	
Tetrachloro-m-xylene	54	10 - 147	06/23/21 20:12	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**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	0.020	1	06/23/21 18:17	6/18/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 18:17	6/18/21	
alpha-BHC	**0.062**	0.045	0.020	1	06/23/21 18:17	6/18/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	
delta-BHC	**0.067**	0.045	0.020	1	06/23/21 18:17	6/18/21	
gamma-BHC (Lindane)	**0.064**	0.045	0.020	1	06/23/21 18:17	6/18/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 18:17	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 164	06/23/21 18:17	
Tetrachloro-m-xylene	49	10 - 147	06/23/21 18:17	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**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	0.020	1	06/23/21 20:31	6/18/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Aldrin	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Dieldrin	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Endrin	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Heptachlor	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 20:31	6/18/21	
alpha-BHC	**0.050**	0.045	0.020	1	06/23/21 20:31	6/18/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
beta-BHC	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	
delta-BHC	**0.12**	0.045	0.020	1	06/23/21 20:31	6/18/21	
gamma-BHC (Lindane)	**0.075**	0.045	0.020	1	06/23/21 20:31	6/18/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/23/21 20:31	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 164	06/23/21 20:31	
Tetrachloro-m-xylene	56	10 - 147	06/23/21 20:31	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**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	0.020	1	06/30/21 16:20	6/21/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Aldrin	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Dieldrin	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Endrin	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Heptachlor	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 16:20	6/21/21	
alpha-BHC	**0.13**	0.045	0.020	1	06/30/21 16:20	6/21/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
beta-BHC	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	
delta-BHC	**0.29**	0.045	0.020	1	06/30/21 16:20	6/21/21	
gamma-BHC (Lindane)	**0.23**	0.045	0.020	1	06/30/21 16:20	6/21/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/30/21 16:20	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 164	06/30/21 16:20	
Tetrachloro-m-xylene	59	10 - 147	06/30/21 16:20	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**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	0.020	1	06/30/21 16:40	6/21/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Aldrin	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Dieldrin	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Endrin	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Heptachlor	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 16:40	6/21/21	
alpha-BHC	**0.065**	0.045	0.020	1	06/30/21 16:40	6/21/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
beta-BHC	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	
delta-BHC	**0.20**	0.045	0.020	1	06/30/21 16:40	6/21/21	
gamma-BHC (Lindane)	**0.11**	0.045	0.020	1	06/30/21 16:40	6/21/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/30/21 16:40	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	29	10 - 164	06/30/21 16:40	
Tetrachloro-m-xylene	40	10 - 147	06/30/21 16:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**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	0.020	1	06/29/21 20:42	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 20:42	6/22/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
delta-BHC	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/29/21 20:42	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	46	10 - 164	06/29/21 20:42	
Tetrachloro-m-xylene	51	10 - 147	06/29/21 20:42	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 09:45
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**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	0.50	1	06/22/21 16:47	6/18/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/22/21 16:47	6/18/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/22/21 16:47	6/18/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/22/21 16:47	6/18/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/22/21 16:47	6/18/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/22/21 16:47	6/18/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/22/21 16:47	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 152	06/22/21 16:47	
Tetrachloro-m-xylene	55	14 - 129	06/22/21 16:47	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 13:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-026	**Units:**	ug/L
Lab Code:	R2105966-003	**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	0.50	1	06/22/21 17:26	6/18/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/22/21 17:26	6/18/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/22/21 17:26	6/18/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/22/21 17:26	6/18/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/22/21 17:26	6/18/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/22/21 17:26	6/18/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/22/21 17:26	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 152	06/22/21 17:26	
Tetrachloro-m-xylene	45	14 - 129	06/22/21 17:26	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 14:30
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-027	**Units:**	ug/L
Lab Code:	R2105966-004	**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	0.50	1	06/22/21 17:45	6/18/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/22/21 17:45	6/18/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/22/21 17:45	6/18/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/22/21 17:45	6/18/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/22/21 17:45	6/18/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/22/21 17:45	6/18/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/22/21 17:45	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 152	06/22/21 17:45	
Tetrachloro-m-xylene	57	14 - 129	06/22/21 17:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21 15:10
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	RB-9954-061421-SG-002	**Units:**	ug/L
Lab Code:	R2105966-005	**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	0.50	1	06/22/21 18:05	6/18/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/22/21 18:05	6/18/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/22/21 18:05	6/18/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/22/21 18:05	6/18/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/22/21 18:05	6/18/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/22/21 18:05	6/18/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/22/21 18:05	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	19	10 - 152	06/22/21 18:05	
Tetrachloro-m-xylene	56	14 - 129	06/22/21 18:05	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-028	**Units:**	ug/L
Lab Code:	R2105966-006	**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	0.50	1	06/22/21 18:25	6/18/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/22/21 18:25	6/18/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/22/21 18:25	6/18/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/22/21 18:25	6/18/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/22/21 18:25	6/18/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/22/21 18:25	6/18/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/22/21 18:25	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	68	10 - 152	06/22/21 18:25	
Tetrachloro-m-xylene	65	14 - 129	06/22/21 18:25	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 11:25
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-029	**Units:**	ug/L
Lab Code:	R2105966-007	**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	0.50	1	06/23/21 19:26	6/21/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/23/21 19:26	6/21/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/23/21 19:26	6/21/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/23/21 19:26	6/21/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/23/21 19:26	6/21/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/23/21 19:26	6/21/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/23/21 19:26	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 152	06/23/21 19:26	
Tetrachloro-m-xylene	42	14 - 129	06/23/21 19:26	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 13:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**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	0.50	1	06/23/21 20:05	6/21/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/23/21 20:05	6/21/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/23/21 20:05	6/21/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/23/21 20:05	6/21/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/23/21 20:05	6/21/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/23/21 20:05	6/21/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/23/21 20:05	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 152	06/23/21 20:05	
Tetrachloro-m-xylene	40	14 - 129	06/23/21 20:05	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21 14:00
Sample Matrix:	Water	**Date Received:**	06/16/21 10:20
Sample Name:	WG-9954-061421-SG-031	**Units:**	ug/L
Lab Code:	R2105966-009	**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	0.50	1	06/24/21 16:29	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 16:29	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 16:29	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 16:29	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 16:29	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 16:29	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 16:29	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	51	10 - 152	06/24/21 16:29	
Tetrachloro-m-xylene	51	14 - 129	06/24/21 16:29	

QC Summary Forms

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
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-061421-SG-025	R2105966-001	98	103	102
TB-9954-061421-SG-005	R2105966-002	97	103	102
WG-9954-061421-SG-026	R2105966-003	99	103	103
WG-9954-061421-SG-027	R2105966-004	97	104	103
RB-9954-061421-SG-002	R2105966-005	98	104	103
WG-9954-061421-SG-028	R2105966-006	96	103	102
WG-9954-061421-SG-029	R2105966-007	98	102	102
WG-9954-061421-SG-030	R2105966-008	96	101	101
WG-9954-061421-SG-031	R2105966-009	99	105	105
Method Blank	RQ2107185-04	99	103	102
Method Blank	RQ2107502-04	96	103	102
Lab Control Sample	RQ2107185-03	102	103	101
Lab Control Sample	RQ2107502-03	102	105	103

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107185-04	**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	06/22/21 16:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/22/21 16:57	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/22/21 16:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/22/21 16:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/22/21 16:57	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/22/21 16:57	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/22/21 16:57	
2-Butanone (MEK)	10 U	10	0.78	1	06/22/21 16:57	
2-Hexanone	10 U	10	0.20	1	06/22/21 16:57	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/22/21 16:57	
Acetone	10 U	10	5.0	1	06/22/21 16:57	
Benzene	5.0 U	5.0	0.20	1	06/22/21 16:57	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/22/21 16:57	
Bromoform	5.0 U	5.0	0.25	1	06/22/21 16:57	
Bromomethane	5.0 U	5.0	0.70	1	06/22/21 16:57	
Carbon Disulfide	10 U	10	0.42	1	06/22/21 16:57	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/22/21 16:57	
Chlorobenzene	5.0 U	5.0	0.20	1	06/22/21 16:57	
Chloroethane	5.0 U	5.0	0.23	1	06/22/21 16:57	
Chloroform	5.0 U	5.0	0.24	1	06/22/21 16:57	
Chloromethane	5.0 U	5.0	0.28	1	06/22/21 16:57	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/22/21 16:57	
Dichloromethane	5.0 U	5.0	0.65	1	06/22/21 16:57	
Ethylbenzene	5.0 U	5.0	0.20	1	06/22/21 16:57	
Styrene	5.0 U	5.0	0.20	1	06/22/21 16:57	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/22/21 16:57	
Toluene	5.0 U	5.0	0.20	1	06/22/21 16:57	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/22/21 16:57	
Vinyl Acetate	10 U	10	1.1	1	06/22/21 16:57	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/22/21 16:57	
Xylenes, Total	5.0 U	5.0	0.23	1	06/22/21 16:57	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/22/21 16:57	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/22/21 16:57	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/22/21 16:57	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/22/21 16:57	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107185-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/22/21 16:57	
Dibromofluoromethane	103	80 - 116	06/22/21 16:57	
Toluene-d8	102	87 - 121	06/22/21 16:57	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107185-04	**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			

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107502-04	**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	06/24/21 17:59	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/24/21 17:59	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/24/21 17:59	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/24/21 17:59	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/24/21 17:59	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/24/21 17:59	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/24/21 17:59	
2-Butanone (MEK)	10 U	10	0.78	1	06/24/21 17:59	
2-Hexanone	10 U	10	0.20	1	06/24/21 17:59	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/24/21 17:59	
Acetone	10 U	10	5.0	1	06/24/21 17:59	
Benzene	5.0 U	5.0	0.20	1	06/24/21 17:59	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/24/21 17:59	
Bromoform	5.0 U	5.0	0.25	1	06/24/21 17:59	
Bromomethane	5.0 U	5.0	0.70	1	06/24/21 17:59	
Carbon Disulfide	10 U	10	0.42	1	06/24/21 17:59	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/24/21 17:59	
Chlorobenzene	5.0 U	5.0	0.20	1	06/24/21 17:59	
Chloroethane	5.0 U	5.0	0.23	1	06/24/21 17:59	
Chloroform	5.0 U	5.0	0.24	1	06/24/21 17:59	
Chloromethane	5.0 U	5.0	0.28	1	06/24/21 17:59	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/24/21 17:59	
Dichloromethane	5.0 U	5.0	0.65	1	06/24/21 17:59	
Ethylbenzene	5.0 U	5.0	0.20	1	06/24/21 17:59	
Styrene	5.0 U	5.0	0.20	1	06/24/21 17:59	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/24/21 17:59	
Toluene	5.0 U	5.0	0.20	1	06/24/21 17:59	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/24/21 17:59	
Vinyl Acetate	10 U	10	1.1	1	06/24/21 17:59	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/24/21 17:59	
Xylenes, Total	5.0 U	5.0	0.23	1	06/24/21 17:59	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/24/21 17:59	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/24/21 17:59	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/24/21 17:59	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/24/21 17:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107502-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/24/21 17:59	
Dibromofluoromethane	103	80 - 116	06/24/21 17:59	
Toluene-d8	102	87 - 121	06/24/21 17:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107502-04	**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			

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/22/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107185-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.0	20.0	90	75-125
1,1,2,2-Tetrachloroethane	8260C	19.5	20.0	98	78-126
1,1,2-Trichloroethane	8260C	19.1	20.0	96	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.5	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.0	20.0	105	71-118
1,2-Dichloroethane	8260C	19.7	20.0	99	71-127
1,2-Dichloropropane	8260C	18.9	20.0	94	80-119
2-Butanone (MEK)	8260C	17.2	20.0	86	61-137
2-Hexanone	8260C	18.1	20.0	90	63-124
4-Methyl-2-pentanone	8260C	19.0	20.0	95	66-124
Acetone	8260C	15.7	20.0	79	40-161
Benzene	8260C	18.1	20.0	91	79-119
Bromodichloromethane	8260C	19.6	20.0	98	81-123
Bromoform	8260C	20.1	20.0	101	65-146
Bromomethane	8260C	12.6	20.0	63	42-166
Carbon Disulfide	8260C	23.9	20.0	120	66-128
Carbon Tetrachloride	8260C	18.1	20.0	91	70-127
Chlorobenzene	8260C	18.9	20.0	94	80-121
Chloroethane	8260C	19.8	20.0	99	62-131
Chloroform	8260C	18.7	20.0	94	79-120
Chloromethane	8260C	16.9	20.0	84	65-135
Dibromochloromethane	8260C	19.8	20.0	99	72-128
Dichloromethane	8260C	18.2	20.0	91	73-122
Ethylbenzene	8260C	18.9	20.0	95	76-120
Styrene	8260C	19.4	20.0	97	80-124
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	72-125
Toluene	8260C	18.3	20.0	91	79-119
Trichloroethene (TCE)	8260C	18.0	20.0	90	74-122
Vinyl Acetate	8260C	23.0	20.0	115	52-174
Vinyl Chloride	8260C	16.4	20.0	82	74-159
cis-1,2-Dichloroethene	8260C	19.7	20.0	99	80-121
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	77-122
trans-1,2-Dichloroethene	8260C	20.3	20.0	102	73-118

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

Service Request: R2105966
Date Analyzed: 06/22/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107185-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	20.1	20.0	101	71-133

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107502-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.3	20.0	86	75-125
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-126
1,1,2-Trichloroethane	8260C	18.8	20.0	94	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.7	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.4	20.0	102	71-118
1,2-Dichloroethane	8260C	19.9	20.0	99	71-127
1,2-Dichloropropane	8260C	19.0	20.0	95	80-119
2-Butanone (MEK)	8260C	16.5	20.0	82	61-137
2-Hexanone	8260C	16.5	20.0	83	63-124
4-Methyl-2-pentanone	8260C	17.6	20.0	88	66-124
Acetone	8260C	14.5	20.0	72	40-161
Benzene	8260C	18.3	20.0	91	79-119
Bromodichloromethane	8260C	19.4	20.0	97	81-123
Bromoform	8260C	18.9	20.0	95	65-146
Bromomethane	8260C	11.0	20.0	55	42-166
Carbon Disulfide	8260C	19.8	20.0	99	66-128
Carbon Tetrachloride	8260C	17.1	20.0	86	70-127
Chlorobenzene	8260C	18.3	20.0	92	80-121
Chloroethane	8260C	25.1	20.0	126	62-131
Chloroform	8260C	18.7	20.0	94	79-120
Chloromethane	8260C	15.6	20.0	78	65-135
Dibromochloromethane	8260C	19.3	20.0	97	72-128
Dichloromethane	8260C	18.6	20.0	93	73-122
Ethylbenzene	8260C	18.1	20.0	90	76-120
Styrene	8260C	18.8	20.0	94	80-124
Tetrachloroethene (PCE)	8260C	17.3	20.0	87	72-125
Toluene	8260C	17.6	20.0	88	79-119
Trichloroethene (TCE)	8260C	17.3	20.0	86	74-122
Vinyl Acetate	8260C	22.7	20.0	114	52-174
Vinyl Chloride	8260C	16.3	20.0	82	74-159
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	80-121
cis-1,3-Dichloropropene	8260C	19.9	20.0	99	77-122
trans-1,2-Dichloroethene	8260C	19.9	20.0	100	73-118

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

Service Request: R2105966
Date Analyzed: 06/24/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107502-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.8	20.0	99	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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Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-061421-SG-025	R2105966-001	91	62	45
WG-9954-061421-SG-026	R2105966-003	76	69	49
WG-9954-061421-SG-027	R2105966-004	86	59	39
RB-9954-061421-SG-002	R2105966-005	69	67	45
WG-9954-061421-SG-028	R2105966-006	79	64	47
WG-9954-061421-SG-029	R2105966-007	87	63	44
WG-9954-061421-SG-030	R2105966-008	83	67	44
WG-9954-061421-SG-031	R2105966-009	76	75	52
Method Blank	RQ2106975-01	78	50	51
Method Blank	RQ2107053-01	89	67	56
Method Blank	RQ2107053-01	87	65	55
Lab Control Sample	RQ2106975-02	94	66	54
Duplicate Lab Control Sample	RQ2106975-03	91	65	54
Lab Control Sample	RQ2107053-02	88	73	58
Lab Control Sample	RQ2107053-02	92	70	56
Duplicate Lab Control Sample	RQ2107053-03	90	77	59
Duplicate Lab Control Sample	RQ2107053-03	97	74	58
WG-9954-061421-SG-025 MS	RQ2106975-04	91	80	57
WG-9954-061421-SG-025 DMS	RQ2106975-05	86	80	50

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-061421-SG-025	R2105966-001	66	29	67
WG-9954-061421-SG-026	R2105966-003	77	33	63
WG-9954-061421-SG-027	R2105966-004	62	25	69
RB-9954-061421-SG-002	R2105966-005	71	30	85
WG-9954-061421-SG-028	R2105966-006	66	30	67
WG-9954-061421-SG-029	R2105966-007	65	28	46
WG-9954-061421-SG-030	R2105966-008	66	27	40
WG-9954-061421-SG-031	R2105966-009	78	33	47
Method Blank	RQ2106975-01	58	36	85
Method Blank	RQ2107053-01	74	39	60
Method Blank	RQ2107053-01	71	38	54
Lab Control Sample	RQ2106975-02	72	37	87
Duplicate Lab Control Sample	RQ2106975-03	68	36	85
Lab Control Sample	RQ2107053-02	74	39	60
Lab Control Sample	RQ2107053-02	71	37	61
Duplicate Lab Control Sample	RQ2107053-03	79	41	65
Duplicate Lab Control Sample	RQ2107053-03	77	39	61
WG-9954-061421-SG-025 MS	RQ2106975-04	78	38	57
WG-9954-061421-SG-025 DMS	RQ2106975-05	78	34	63

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21
Sample Matrix:	Water	**Date Received:**	06/16/21
		Date Analyzed:	06/24/21
		Date Extracted:	06/18/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106975-04			RQ2106975-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	9.1 U	51.8	72.7	71	50.1	72.7	69	10-127	3	30
1,2-Dichlorobenzene	9.1 U	54.5	72.7	75	51.2	72.7	70	17-105	7	30
1,3-Dichlorobenzene	9.1 U	55.6	72.7	76	48.6	72.7	67	21-99	13	30
1,4-Dichlorobenzene	9.1 U	53.6	72.7	74	48.8	72.7	67	10-124	10	30
2,4,5-Trichlorophenol	9.1 U	66.4	72.7	91	62.8	72.7	86	48-134	6	30
2,4,6-Trichlorophenol	9.1 U	65.1	72.7	90	64.7	72.7	89	44-135	1	30
2,4-Dichlorophenol	9.1 U	57.7	72.7	79	55.0	72.7	76	40-130	4	30
2,4-Dimethylphenol	9.1 U	58.6	72.7	81	58.4	72.7	80	35-99	1	30
2,4-Dinitrophenol	45 U	81.4	72.7	112	78.9	72.7	108	21-168	4	30
2,4-Dinitrotoluene	9.1 U	72.6	72.7	100	72.6	72.7	100	37-143	<1	30
2,6-Dinitrotoluene	9.1 U	77.9	72.7	107	74.2	72.7	102	39-136	5	30
2-Chloronaphthalene	9.1 U	59.4	72.7	82	59.1	72.7	81	40-108	1	30
2-Chlorophenol	9.1 U	58.4	72.7	80	50.1	72.7	69	37-112	15	30
2-Methylnaphthalene	9.1 U	55.3	72.7	76	58.1	72.7	80	34-102	5	30
2-Methylphenol	9.1 U	57.4	72.7	79	53.6	72.7	74	37-102	7	30
2-Nitroaniline	9.1 U	77.7	72.7	107	74.2	72.7	102	40-136	5	30
2-Nitrophenol	9.1 U	60.3	72.7	83	62.0	72.7	85	27-143	2	30
3,3'-Dichlorobenzidine	9.1 U	72.9	72.7	100	75.6	72.7	104	11-131	4	30
3- and 4-Methylphenol Coelution	9.1 U	53.2	72.7	73	51.1	72.7	70	30-95	4	30
3-Nitroaniline	9.1 U	65.0	72.7	89	67.0	72.7	92	19-117	3	30
4,6-Dinitro-2-methylphenol	45 U	82.1	72.7	113	80.9	72.7	111	25-154	2	30
4-Bromophenyl Phenyl Ether	9.1 U	64.9	72.7	89	65.5	72.7	90	39-115	1	30
4-Chloro-3-methylphenol	9.1 U	59.8	72.7	82	61.5	72.7	84	41-126	2	30
4-Chloroaniline	9.1 U	61.0	72.7	84	60.8	72.7	84	19-111	<1	30
4-Chlorophenyl Phenyl Ether	9.1 U	64.8	72.7	89	61.2	72.7	84	41-111	6	30
4-Nitroaniline	9.1 U	81.7	72.7	112	73.4	72.7	101	18-143	10	30
4-Nitrophenol	45 U	37.0 J	72.7	51	37.1 J	72.7	51	10-126	<1	30
Acenaphthene	9.1 U	63.2	72.7	87	65.9	72.7	91	43-117	4	30
Acenaphthylene	9.1 U	65.8	72.7	91	67.7	72.7	93	45-119	2	30
Anthracene	9.1 U	69.2	72.7	95	71.5	72.7	98	45-127	3	30
Benz(a)anthracene	9.1 U	51.4	72.7	71	54.4	72.7	75	46-126	5	30
Benzo(a)pyrene	9.1 U	58.6	72.7	81	63.7	72.7	88	44-114	8	30
Benzo(b)fluoranthene	9.1 U	47.5	72.7	65	52.3	72.7	72	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/14/21
Sample Matrix:	Water	**Date Received:**	06/16/21
		Date Analyzed:	06/24/21
		Date Extracted:	06/18/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061421-SG-025	**Units:**	ug/L
Lab Code:	R2105966-001	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2106975-04			Duplicate Matrix Spike RQ2106975-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	9.1 U	58.2	72.7	80	63.6	72.7	87	50-143	8	30
Benzo(k)fluoranthene	9.1 U	50.3	72.7	69	53.3	72.7	73	46-139	6	30
Benzoic Acid	45 U	84.4	109	77	76.2	109	70	10-94	10	30
Benzyl Alcohol	9.1 U	63.9	72.7	88	60.5	72.7	83	31-109	6	30
2,2'-Oxybis(1-chloropropane)	9.1 U	64.6	72.7	89	59.9	72.7	82	21-126	8	30
Bis(2-chloroethoxy)methane	9.1 U	56.0	72.7	77	57.8	72.7	80	41-118	4	30
Bis(2-chloroethyl) Ether	9.1 U	58.8	72.7	81	51.6	72.7	71	33-108	13	30
Bis(2-ethylhexyl) Phthalate	9.1 U	52.3	72.7	72	54.2	72.7	75	41-132	4	30
Butyl Benzyl Phthalate	9.1 U	61.7	72.7	85	64.1	72.7	88	41-148	3	30
Chrysene	9.1 U	51.5	72.7	71	54.5	72.7	75	47-126	5	30
Di-n-butyl Phthalate	9.1 U	83.0	72.7	114	82.8	72.7	114	43-130	<1	30
Di-n-octyl Phthalate	9.1 U	56.3	72.7	77	60.4	72.7	83	40-139	8	30
Dibenz(a,h)anthracene	9.1 U	51.3	72.7	70	56.9	72.7	78	43-136	11	30
Dibenzofuran	9.1 U	66.3	72.7	91	67.9	72.7	93	46-119	2	30
Diethyl Phthalate	9.1 U	63.3	72.7	87	64.4	72.7	89	36-122	2	30
Dimethyl Phthalate	9.1 U	69.2	72.7	95	67.5	72.7	93	33-123	2	30
Fluoranthene	9.1 U	68.5	72.7	94	75.4	72.7	104	43-135	10	30
Fluorene	9.1 U	71.1	72.7	98	66.4	72.7	91	43-113	7	30
Hexachlorobenzene	9.1 U	59.4	72.7	82	60.1	72.7	83	42-125	1	30
Hexachlorobutadiene	9.1 U	52.0	72.7	72	49.6	72.7	68	10-111	6	30
Hexachlorocyclopentadiene	9.1 U	23.9	72.7	33	25.2	72.7	35	10-103	6	30
Hexachloroethane	9.1 U	54.2	72.7	75	48.9	72.7	67	12-101	11	30
Indeno(1,2,3-cd)pyrene	9.1 U	51.8	72.7	71	56.0	72.7	77	49-140	8	30
Isophorone	9.1 U	60.6	72.7	83	61.3	72.7	84	40-111	1	30
N-Nitrosodi-n-propylamine	9.1 U	63.6	72.7	87	59.4	72.7	82	35-108	6	30
N-Nitrosodiphenylamine	9.1 U	82.8	72.7	114	80.6	72.7	111	43-127	3	30
Naphthalene	9.1 U	56.8	72.7	78	54.6	72.7	75	37-108	4	30
Nitrobenzene	9.1 U	58.1	72.7	80	57.4	72.7	79	35-112	1	30
Pentachlorophenol (PCP)	45 U	105	72.7	144	88.5	72.7	122	29-164	17	30
Phenanthrene	9.1 U	69.2	72.7	95	68.0	72.7	93	46-123	2	30
Phenol	9.1 U	31.0	72.7	43	27.5	72.7	38	10-113	12	30
Pyrene	9.1 U	65.0	72.7	89	68.6	72.7	94	44-129	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

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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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106975-01	**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	06/22/21 16:30	6/18/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
2,4-Dinitrophenol	50 U	50	20	1	06/22/21 16:30	6/18/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/22/21 16:30	6/18/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
2-Chlorophenol	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
2-Methylphenol	10 U	10	1.0	1	06/22/21 16:30	6/18/21	
2-Nitroaniline	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
2-Nitrophenol	10 U	10	1.5	1	06/22/21 16:30	6/18/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
3-Nitroaniline	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/22/21 16:30	6/18/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/22/21 16:30	6/18/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
4-Chloroaniline	10 U	10	1.0	1	06/22/21 16:30	6/18/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/22/21 16:30	6/18/21	
4-Nitroaniline	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
4-Nitrophenol	50 U	50	6.4	1	06/22/21 16:30	6/18/21	
Acenaphthene	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
Acenaphthylene	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
Anthracene	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
Benz(a)anthracene	10 U	10	1.6	1	06/22/21 16:30	6/18/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/22/21 16:30	6/18/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
Benzoic Acid	50 U	50	36	1	06/22/21 16:30	6/18/21	
Benzyl Alcohol	10 U	10	1.6	1	06/22/21 16:30	6/18/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/22/21 16:30	6/18/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/22/21 16:30	6/18/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
Chrysene	10 U	10	1.2	1	06/22/21 16:30	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106975-01	**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	1.7	1	06/22/21 16:30	6/18/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/22/21 16:30	6/18/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
Dibenzofuran	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
Diethyl Phthalate	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
Fluoranthene	10 U	10	1.5	1	06/22/21 16:30	6/18/21	
Fluorene	10 U	10	1.3	1	06/22/21 16:30	6/18/21	
Hexachlorobenzene	10 U	10	1.6	1	06/22/21 16:30	6/18/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/22/21 16:30	6/18/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/22/21 16:30	6/18/21	
Hexachloroethane	10 U	10	1.1	1	06/22/21 16:30	6/18/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/22/21 16:30	6/18/21	
Isophorone	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/22/21 16:30	6/18/21	
Naphthalene	10 U	10	1.2	1	06/22/21 16:30	6/18/21	
Nitrobenzene	10 U	10	1.5	1	06/22/21 16:30	6/18/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/22/21 16:30	6/18/21	
Phenanthrene	10 U	10	1.4	1	06/22/21 16:30	6/18/21	
Phenol	10 U	10	1.0	1	06/22/21 16:30	6/18/21	
Pyrene	10 U	10	1.5	1	06/22/21 16:30	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	06/22/21 16:30	
2-Fluorobiphenyl	50	31 - 118	06/22/21 16:30	
2-Fluorophenol	51	10 - 105	06/22/21 16:30	
Nitrobenzene-d5	58	31 - 110	06/22/21 16:30	
Phenol-d6	36	10 - 107	06/22/21 16:30	
p-Terphenyl-d14	85	10 - 165	06/22/21 16:30	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107053-01	**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	06/24/21 15:08	6/21/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
2,4-Dinitrophenol	50 U	50	20	1	06/24/21 15:08	6/21/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/24/21 15:08	6/21/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
2-Chlorophenol	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
2-Methylphenol	10 U	10	1.0	1	06/24/21 15:08	6/21/21	
2-Nitroaniline	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
2-Nitrophenol	10 U	10	1.5	1	06/24/21 15:08	6/21/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
3-Nitroaniline	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/24/21 15:08	6/21/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/24/21 15:08	6/21/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
4-Chloroaniline	10 U	10	1.0	1	06/24/21 15:08	6/21/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/24/21 15:08	6/21/21	
4-Nitroaniline	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
4-Nitrophenol	50 U	50	6.4	1	06/24/21 15:08	6/21/21	
Acenaphthene	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
Acenaphthylene	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
Anthracene	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
Benz(a)anthracene	10 U	10	1.6	1	06/24/21 15:08	6/21/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/24/21 15:08	6/21/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
Benzoic Acid	50 U	50	36	1	06/24/21 15:08	6/21/21	
Benzyl Alcohol	10 U	10	1.6	1	06/24/21 15:08	6/21/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/24/21 15:08	6/21/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/24/21 15:08	6/21/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
Chrysene	10 U	10	1.2	1	06/24/21 15:08	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107053-01	**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	1.7	1	06/24/21 15:08	6/21/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/24/21 15:08	6/21/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
Dibenzofuran	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
Diethyl Phthalate	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
Fluoranthene	10 U	10	1.5	1	06/24/21 15:08	6/21/21	
Fluorene	10 U	10	1.3	1	06/24/21 15:08	6/21/21	
Hexachlorobenzene	10 U	10	1.6	1	06/24/21 15:08	6/21/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/24/21 15:08	6/21/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/24/21 15:08	6/21/21	
Hexachloroethane	10 U	10	1.1	1	06/24/21 15:08	6/21/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/24/21 15:08	6/21/21	
Isophorone	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/24/21 15:08	6/21/21	
Naphthalene	10 U	10	1.2	1	06/24/21 15:08	6/21/21	
Nitrobenzene	10 U	10	1.5	1	06/24/21 15:08	6/21/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/24/21 15:08	6/21/21	
Phenanthrene	10 U	10	1.4	1	06/24/21 15:08	6/21/21	
Phenol	10 U	10	1.0	1	06/24/21 15:08	6/21/21	
Pyrene	10 U	10	1.5	1	06/24/21 15:08	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	06/24/21 15:08	
2-Fluorobiphenyl	67	31 - 118	06/24/21 15:08	
2-Fluorophenol	56	10 - 105	06/24/21 15:08	
Nitrobenzene-d5	74	31 - 110	06/24/21 15:08	
Phenol-d6	39	10 - 107	06/24/21 15:08	
p-Terphenyl-d14	60	10 - 165	06/24/21 15:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.96	5.0	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107053-01	**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	06/28/21 14:50	6/21/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
2,4-Dinitrophenol	50 U	50	20	1	06/28/21 14:50	6/21/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/28/21 14:50	6/21/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
2-Chlorophenol	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
2-Methylphenol	10 U	10	1.0	1	06/28/21 14:50	6/21/21	
2-Nitroaniline	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
2-Nitrophenol	10 U	10	1.5	1	06/28/21 14:50	6/21/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
3-Nitroaniline	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/28/21 14:50	6/21/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/28/21 14:50	6/21/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
4-Chloroaniline	10 U	10	1.0	1	06/28/21 14:50	6/21/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/28/21 14:50	6/21/21	
4-Nitroaniline	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
4-Nitrophenol	50 U	50	6.4	1	06/28/21 14:50	6/21/21	
Acenaphthene	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
Acenaphthylene	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
Anthracene	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
Benz(a)anthracene	10 U	10	1.6	1	06/28/21 14:50	6/21/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/28/21 14:50	6/21/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
Benzoic Acid	50 U	50	36	1	06/28/21 14:50	6/21/21	
Benzyl Alcohol	10 U	10	1.6	1	06/28/21 14:50	6/21/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/28/21 14:50	6/21/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/28/21 14:50	6/21/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
Chrysene	10 U	10	1.2	1	06/28/21 14:50	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107053-01	**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	1.7	1	06/28/21 14:50	6/21/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/28/21 14:50	6/21/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
Dibenzofuran	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
Diethyl Phthalate	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
Fluoranthene	10 U	10	1.5	1	06/28/21 14:50	6/21/21	
Fluorene	10 U	10	1.3	1	06/28/21 14:50	6/21/21	
Hexachlorobenzene	10 U	10	1.6	1	06/28/21 14:50	6/21/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/28/21 14:50	6/21/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/28/21 14:50	6/21/21	
Hexachloroethane	10 U	10	1.1	1	06/28/21 14:50	6/21/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/28/21 14:50	6/21/21	
Isophorone	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/28/21 14:50	6/21/21	
Naphthalene	10 U	10	1.2	1	06/28/21 14:50	6/21/21	
Nitrobenzene	10 U	10	1.5	1	06/28/21 14:50	6/21/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/28/21 14:50	6/21/21	
Phenanthrene	10 U	10	1.4	1	06/28/21 14:50	6/21/21	
Phenol	10 U	10	1.0	1	06/28/21 14:50	6/21/21	
Pyrene	10 U	10	1.5	1	06/28/21 14:50	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	35 - 141	06/28/21 14:50	
2-Fluorobiphenyl	65	31 - 118	06/28/21 14:50	
2-Fluorophenol	55	10 - 105	06/28/21 14:50	
Nitrobenzene-d5	71	31 - 110	06/28/21 14:50	
Phenol-d6	38	10 - 107	06/28/21 14:50	
p-Terphenyl-d14	54	10 - 165	06/28/21 14:50	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/22/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106975-02			RQ2106975-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	52.9	80.0	66	51.2	80.0	64	10-127	3	30
1,2-Dichlorobenzene	8270D	50.6	80.0	63	51.3	80.0	64	23-130	2	30
1,3-Dichlorobenzene	8270D	50.1	80.0	63	49.4	80.0	62	21-90	2	30
1,4-Dichlorobenzene	8270D	50.0	80.0	63	48.6	80.0	61	10-124	3	30
2,4,5-Trichlorophenol	8270D	74.1	80.0	93	73.8	80.0	92	48-134	1	30
2,4,6-Trichlorophenol	8270D	66.6	80.0	83	65.3	80.0	82	44-135	1	30
2,4-Dichlorophenol	8270D	60.4	80.0	75	58.9	80.0	74	48-127	1	30
2,4-Dimethylphenol	8270D	63.1	80.0	79	59.8	80.0	75	35-99	5	30
2,4-Dinitrophenol	8270D	58.6	80.0	73	54.0	80.0	67	21-154	9	30
2,4-Dinitrotoluene	8270D	81.4	80.0	102	78.5	80.0	98	54-130	4	30
2,6-Dinitrotoluene	8270D	85.1	80.0	106	85.4	80.0	107	51-127	<1	30
2-Chloronaphthalene	8270D	61.2	80.0	76	60.6	80.0	76	40-108	<1	30
2-Chlorophenol	8270D	54.5	80.0	68	53.4	80.0	67	42-112	1	30
2-Methylnaphthalene	8270D	59.9	80.0	75	58.3	80.0	73	34-102	3	30
2-Methylphenol	8270D	61.7	80.0	77	59.5	80.0	74	47-100	4	30
2-Nitroaniline	8270D	79.0	80.0	99	78.5	80.0	98	52-133	1	30
2-Nitrophenol	8270D	58.2	80.0	73	57.3	80.0	72	43-131	1	30
3,3'-Dichlorobenzidine	8270D	84.9	80.0	106	86.9	80.0	109	43-126	3	30
3- and 4-Methylphenol Coelution	8270D	60.0	80.0	75	59.7	80.0	75	40-92	<1	30
3-Nitroaniline	8270D	73.2	80.0	91	71.9	80.0	90	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	68.6	80.0	86	68.7	80.0	86	36-152	<1	30
4-Bromophenyl Phenyl Ether	8270D	78.2	80.0	98	79.7	80.0	100	48-114	2	30
4-Chloro-3-methylphenol	8270D	68.4	80.0	85	67.5	80.0	84	52-113	1	30
4-Chloroaniline	8270D	67.8	80.0	85	62.2	80.0	78	44-109	9	30
4-Chlorophenyl Phenyl Ether	8270D	73.5	80.0	92	74.7	80.0	93	51-107	1	30
4-Nitroaniline	8270D	72.6	80.0	91	70.8	80.0	88	54-133	3	30
4-Nitrophenol	8270D	44.2 J	80.0	55	46.4 J	80.0	58	10-126	5	30
Acenaphthene	8270D	67.0	80.0	84	66.2	80.0	83	52-107	1	30
Acenaphthylene	8270D	71.1	80.0	89	70.6	80.0	88	55-109	1	30
Anthracene	8270D	75.8	80.0	95	78.4	80.0	98	55-116	3	30
Benz(a)anthracene	8270D	81.1	80.0	101	82.3	80.0	103	61-121	2	30
Benzo(a)pyrene	8270D	85.4	80.0	107	87.2	80.0	109	44-114	2	30
Benzo(b)fluoranthene	8270D	77.1	80.0	96	77.0	80.0	96	62-115	<1	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/22/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106975-02			RQ2106975-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	83.5	80.0	104	80.8	80.0	101	63-136	3	30
Benzo(k)fluoranthene	8270D	82.5	80.0	103	85.4	80.0	107	49-133	4	30
Benzoic Acid	8270D	64.4	120	54	72.8	120	61	10-94	12	30
Benzyl Alcohol	8270D	71.3	80.0	89	70.1	80.0	88	31-109	1	30
2,2'-Oxybis(1-chloropropane)	8270D	72.1	80.0	90	71.6	80.0	89	32-122	1	30
Bis(2-chloroethoxy)methane	8270D	83.7	80.0	105	80.8	80.0	101	55-110	4	30
Bis(2-chloroethyl) Ether	8270D	65.1	80.0	81	62.6	80.0	78	46-102	4	30
Bis(2-ethylhexyl) Phthalate	8270D	99.8	80.0	125	101	80.0	126	51-132	<1	30
Butyl Benzyl Phthalate	8270D	89.8	80.0	112	93.1	80.0	116	41-148	4	30
Chrysene	8270D	80.8	80.0	101	82.0	80.0	102	57-118	<1	30
Di-n-butyl Phthalate	8270D	103	80.0	129 *	109	80.0	136 *	57-128	5	30
Di-n-octyl Phthalate	8270D	89.0	80.0	111	93.7	80.0	117	62-124	5	30
Dibenz(a,h)anthracene	8270D	83.4	80.0	104	86.3	80.0	108	54-135	4	30
Dibenzofuran	8270D	69.0	80.0	86	68.4	80.0	85	55-110	1	30
Diethyl Phthalate	8270D	75.4	80.0	94	74.7	80.0	93	53-113	1	30
Dimethyl Phthalate	8270D	78.2	80.0	98	77.7	80.0	97	51-112	1	30
Fluoranthene	8270D	87.1	80.0	109	90.2	80.0	113	66-127	4	30
Fluorene	8270D	73.0	80.0	91	72.7	80.0	91	54-106	<1	30
Hexachlorobenzene	8270D	78.7	80.0	98	82.8	80.0	103	53-123	5	30
Hexachlorobutadiene	8270D	52.1	80.0	65	52.4	80.0	66	16-95	2	30
Hexachlorocyclopentadiene	8270D	28.3	80.0	35	28.3	80.0	35	10-99	<1	30
Hexachloroethane	8270D	50.0	80.0	63	49.4	80.0	62	15-92	2	30
Indeno(1,2,3-cd)pyrene	8270D	81.5	80.0	102	77.9	80.0	97	62-137	5	30
Isophorone	8270D	74.6	80.0	93	73.4	80.0	92	50-116	1	30
N-Nitrosodi-n-propylamine	8270D	66.0	80.0	83	63.8	80.0	80	49-115	4	30
N-Nitrosodiphenylamine	8270D	73.6	80.0	92	78.1	80.0	98	45-123	6	30
Naphthalene	8270D	58.0	80.0	72	56.6	80.0	71	38-99	1	30
Nitrobenzene	8270D	65.4	80.0	82	63.2	80.0	79	46-108	4	30
Pentachlorophenol (PCP)	8270D	69.8	80.0	87	72.5	80.0	91	29-164	4	30
Phenanthrene	8270D	74.8	80.0	93	76.8	80.0	96	58-118	3	30
Phenol	8270D	33.5	80.0	42	35.1	80.0	44	10-113	5	30
Pyrene	8270D	82.8	80.0	104	82.4	80.0	103	61-122	<1	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107053-02			RQ2107053-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	56.7	80.0	71	60.6	80.0	76	10-127	7	30
1,2-Dichlorobenzene	8270D	55.1	80.0	69	58.4	80.0	73	23-130	6	30
1,3-Dichlorobenzene	8270D	53.9	80.0	67	56.0	80.0	70	21-90	4	30
1,4-Dichlorobenzene	8270D	54.0	80.0	67	55.5	80.0	69	10-124	3	30
2,4,5-Trichlorophenol	8270D	77.9	80.0	97	81.6	80.0	102	48-134	5	30
2,4,6-Trichlorophenol	8270D	70.9	80.0	89	74.4	80.0	93	44-135	4	30
2,4-Dichlorophenol	8270D	65.8	80.0	82	68.3	80.0	85	48-127	4	30
2,4-Dimethylphenol	8270D	54.9	80.0	69	61.1	80.0	76	35-99	10	30
2,4-Dinitrophenol	8270D	92.3	80.0	115	96.9	80.0	121	21-154	5	30
2,4-Dinitrotoluene	8270D	74.8	80.0	93	78.6	80.0	98	54-130	5	30
2,6-Dinitrotoluene	8270D	85.9	80.0	107	85.5	80.0	107	51-127	<1	30
2-Chloronaphthalene	8270D	65.0	80.0	81	68.1	80.0	85	40-108	5	30
2-Chlorophenol	8270D	57.2	80.0	71	59.1	80.0	74	42-112	4	30
2-Methylnaphthalene	8270D	62.2	80.0	78	65.1	80.0	81	34-102	4	30
2-Methylphenol	8270D	60.8	80.0	76	63.6	80.0	79	47-100	4	30
2-Nitroaniline	8270D	70.1	80.0	88	72.8	80.0	91	52-133	3	30
2-Nitrophenol	8270D	64.2	80.0	80	66.5	80.0	83	43-131	4	30
3,3'-Dichlorobenzidine	8270D	85.9	80.0	107	86.5	80.0	108	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	58.8	80.0	73	60.9	80.0	76	40-92	4	30
3-Nitroaniline	8270D	67.6	80.0	85	68.4	80.0	86	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	84.2	80.0	105	84.2	80.0	105	36-152	<1	30
4-Bromophenyl Phenyl Ether	8270D	84.6	80.0	106	84.9	80.0	106	48-114	<1	30
4-Chloro-3-methylphenol	8270D	65.8	80.0	82	67.0	80.0	84	52-113	2	30
4-Chloroaniline	8270D	67.8	80.0	85	67.6	80.0	84	44-109	1	30
4-Chlorophenyl Phenyl Ether	8270D	73.4	80.0	92	75.6	80.0	94	51-107	2	30
4-Nitroaniline	8270D	64.8	80.0	81	69.3	80.0	87	54-133	7	30
4-Nitrophenol	8270D	41.9 J	80.0	52	43.7 J	80.0	55	10-126	6	30
Acenaphthene	8270D	67.3	80.0	84	69.5	80.0	87	52-107	4	30
Acenaphthylene	8270D	74.0	80.0	93	76.5	80.0	96	55-109	3	30
Anthracene	8270D	75.0	80.0	94	78.5	80.0	98	55-116	4	30
Benz(a)anthracene	8270D	79.9	80.0	100	79.7	80.0	100	61-121	<1	30
Benzo(a)pyrene	8270D	84.2	80.0	105	87.5	80.0	109	44-114	4	30
Benzo(b)fluoranthene	8270D	74.5	80.0	93	77.4	80.0	97	62-115	4	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107053-02			RQ2107053-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	82.7	80.0	103	85.3	80.0	107	63-136	4	30
Benzo(k)fluoranthene	8270D	81.5	80.0	102	85.7	80.0	107	49-133	5	30
Benzoic Acid	8270D	64.8	120	54	70.8	120	59	10-94	9	30
Benzyl Alcohol	8270D	66.5	80.0	83	70.3	80.0	88	31-109	6	30
2,2'-Oxybis(1-chloropropane)	8270D	64.7	80.0	81	67.7	80.0	85	32-122	5	30
Bis(2-chloroethoxy)methane	8270D	80.8	80.0	101	85.0	80.0	106	55-110	5	30
Bis(2-chloroethyl) Ether	8270D	63.8	80.0	80	67.2	80.0	84	46-102	5	30
Bis(2-ethylhexyl) Phthalate	8270D	82.4	80.0	103	81.0	80.0	101	51-132	2	30
Butyl Benzyl Phthalate	8270D	83.0	80.0	104	83.7	80.0	105	41-148	<1	30
Chrysene	8270D	81.4	80.0	102	81.6	80.0	102	57-118	<1	30
Di-n-butyl Phthalate	8270D	101	80.0	126	100	80.0	125	57-128	<1	30
Di-n-octyl Phthalate	8270D	80.3	80.0	100	83.5	80.0	104	62-124	4	30
Dibenz(a,h)anthracene	8270D	81.3	80.0	102	84.1	80.0	105	54-135	3	30
Dibenzofuran	8270D	70.5	80.0	88	71.9	80.0	90	55-110	2	30
Diethyl Phthalate	8270D	68.8	80.0	86	71.1	80.0	89	53-113	3	30
Dimethyl Phthalate	8270D	77.9	80.0	97	81.0	80.0	101	51-112	4	30
Fluoranthene	8270D	91.3	80.0	114	93.0	80.0	116	66-127	2	30
Fluorene	8270D	72.1	80.0	90	75.0	80.0	94	54-106	4	30
Hexachlorobenzene	8270D	89.7	80.0	112	88.4	80.0	111	53-123	<1	30
Hexachlorobutadiene	8270D	57.7	80.0	72	60.7	80.0	76	16-95	5	30
Hexachlorocyclopentadiene	8270D	33.7	80.0	42	35.2	80.0	44	10-99	5	30
Hexachloroethane	8270D	50.4	80.0	63	53.6	80.0	67	15-92	6	30
Indeno(1,2,3-cd)pyrene	8270D	79.3	80.0	99	82.1	80.0	103	62-137	4	30
Isophorone	8270D	68.2	80.0	85	71.5	80.0	89	50-116	5	30
N-Nitrosodi-n-propylamine	8270D	58.5	80.0	73	61.0	80.0	76	49-115	4	30
N-Nitrosodiphenylamine	8270D	83.0	80.0	104	82.2	80.0	103	45-123	<1	30
Naphthalene	8270D	60.9	80.0	76	63.7	80.0	80	38-99	5	30
Nitrobenzene	8270D	63.8	80.0	80	66.9	80.0	84	46-108	5	30
Pentachlorophenol (PCP)	8270D	114	80.0	143	119	80.0	148	29-164	3	30
Phenanthrene	8270D	75.8	80.0	95	77.0	80.0	96	58-118	1	30
Phenol	8270D	35.0	80.0	44	36.0	80.0	45	10-113	2	30
Pyrene	8270D	81.6	80.0	102	83.8	80.0	105	61-122	3	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2105966

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-061421-SG-025	R2105966-001	58	55
WG-9954-061421-SG-026	R2105966-003	25	44
WG-9954-061421-SG-027	R2105966-004	50	54
RB-9954-061421-SG-002	R2105966-005	18	49
WG-9954-061421-SG-028	R2105966-006	59	56
WG-9954-061421-SG-029	R2105966-007	62	59
WG-9954-061421-SG-030	R2105966-008	29	40
WG-9954-061421-SG-031	R2105966-009	46	51
Method Blank	RQ2106974-01	54	38
Method Blank	RQ2106974-01	49	35
Method Blank	RQ2107052-01	64	40
Method Blank	RQ2107052-01	65	42
Method Blank	RQ2107126-05	45	31
Method Blank	RQ2107126-05	49	33
Lab Control Sample	RQ2106974-02	63	58
Lab Control Sample	RQ2106974-02	59	53
Duplicate Lab Control Sample	RQ2106974-03	62	53
Duplicate Lab Control Sample	RQ2106974-03	59	49
Lab Control Sample	RQ2107052-02	62	39
Lab Control Sample	RQ2107052-02	65	41
Duplicate Lab Control Sample	RQ2107052-03	67	39
Duplicate Lab Control Sample	RQ2107052-03	65	40
Lab Control Sample	RQ2107126-06	61	45
Lab Control Sample	RQ2107126-06	65	46
Duplicate Lab Control Sample	RQ2107126-07	53	42
Duplicate Lab Control Sample	RQ2107126-07	58	44
WG-9954-061421-SG-030 MS	RQ2107052-04	34	50
WG-9954-061421-SG-030 DMS	RQ2107052-05	30	53

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/15/21
Sample Matrix:	Water	**Date Received:**	06/16/21
		Date Analyzed:	06/30/21
		Date Extracted:	06/21/21

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-061421-SG-030	**Units:**	ug/L
Lab Code:	R2105966-008	**Basis:**	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2107052-04			**Duplicate Matrix Spike** RQ2107052-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.045 U	0.240	0.364	66	0.210	0.364	58	38-157	13	30
4,4'-DDE	0.045 U	0.224	0.364	62	0.191	0.364	53	10-200	16	30
4,4'-DDT	0.045 U	0.246	0.364	68	0.209	0.364	57	19-154	17	30
Aldrin	0.045 U	0.109	0.364	30	0.147	0.364	40	26-149	29	30
Dieldrin	0.045 U	0.252	0.364	69	0.235	0.364	65	41-164	7	30
Endosulfan I	0.045 U	0.246	0.364	68	0.230	0.364	63	47-149	7	30
Endosulfan II	0.045 U	0.256	0.364	70	0.238	0.364	66	51-148	7	30
Endosulfan Sulfate	0.045 U	0.251	0.364	69	0.233	0.364	64	10-170	7	30
Endrin	0.045 U	0.274	0.364	75	0.255	0.364	70	48-165	7	30
Endrin Ketone	0.045 U	0.262	0.364	72	0.242	0.364	67	48-162	8	30
Heptachlor	0.045 U	0.111	0.364	30	0.045 U	0.364	0 *	29-168	NC	30
Heptachlor Epoxide	0.045 U	0.249	0.364	68	0.232	0.364	64	29-180	7	30
Methoxychlor	0.045 U	0.265	0.364	73	0.220	0.364	60	38-162	19	30
alpha-BHC	0.065	0.322	0.364	71	0.324	0.364	71	27-154	<1	30
alpha-Chlordane	0.045 U	0.241	0.364	66	0.198	0.364	54	35-160	20	30
beta-BHC	0.045 U	0.414	0.364	114	0.503	0.364	138	32-184	19	30
delta-BHC	0.20	0.423	0.364	62	0.650	0.364	124	10-182	42*	30
gamma-BHC (Lindane)	0.11	0.358	0.364	67	0.317	0.364	56	43-164	12	30
gamma-Chlordane	0.045 U	0.222	0.364	61	0.239	0.364	66	35-165	7	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106974-01	**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	06/23/21 14:07	6/18/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Aldrin	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Dieldrin	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Endrin	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Heptachlor	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 14:07	6/18/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
beta-BHC	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
delta-BHC	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/23/21 14:07	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106974-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 164	06/23/21 14:07	
Tetrachloro-m-xylene	38	10 - 147	06/23/21 14:07	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106974-01	**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	06/23/21 18:55	6/18/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Aldrin	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Dieldrin	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Endrin	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Heptachlor	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
Toxaphene	0.50 U	0.50	0.50	1	06/23/21 18:55	6/18/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
beta-BHC	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
delta-BHC	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/23/21 18:55	6/18/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106974-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 164	06/23/21 18:55	
Tetrachloro-m-xylene	35	10 - 147	06/23/21 18:55	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107052-01	**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	06/24/21 01:20	6/21/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Aldrin	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Dieldrin	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Endrin	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Heptachlor	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
Toxaphene	0.50 U	0.50	0.50	1	06/24/21 01:20	6/21/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
beta-BHC	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
delta-BHC	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/24/21 01:20	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107052-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 164	06/24/21 01:20	
Tetrachloro-m-xylene	40	10 - 147	06/24/21 01:20	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107052-01	**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	06/30/21 15:23	6/21/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Aldrin	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Dieldrin	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Endrin	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Heptachlor	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 15:23	6/21/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
beta-BHC	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
delta-BHC	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/30/21 15:23	6/21/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107052-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 164	06/30/21 15:23	
Tetrachloro-m-xylene	42	10 - 147	06/30/21 15:23	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/29/21 19:44	6/22/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Aldrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Dieldrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Heptachlor	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 19:44	6/22/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
beta-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
delta-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	45	10 - 164	06/29/21 19:44	
Tetrachloro-m-xylene	31	10 - 147	06/29/21 19:44	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/30/21 17:56	6/22/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Aldrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Dieldrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Heptachlor	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 17:56	6/22/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
beta-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
delta-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 164	06/30/21 17:56	
Tetrachloro-m-xylene	33	10 - 147	06/30/21 17:56	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/23/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106974-02			RQ2106974-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.270	0.400	68	0.280	0.400	70	42-159	3	30
4,4'-DDE	8081B	0.283	0.400	71	0.288	0.400	72	47-147	2	30
4,4'-DDT	8081B	0.307	0.400	77	0.319	0.400	80	41-149	4	30
Aldrin	8081B	0.223	0.400	56	0.222	0.400	55	22-137	<1	30
Dieldrin	8081B	0.292	0.400	73	0.298	0.400	74	52-144	2	30
Endosulfan I	8081B	0.286	0.400	71	0.290	0.400	72	52-136	1	30
Endosulfan II	8081B	0.296	0.400	74	0.301	0.400	75	57-138	2	30
Endosulfan Sulfate	8081B	0.306	0.400	76	0.313	0.400	78	34-156	2	30
Endrin	8081B	0.298	0.400	75	0.307	0.400	77	56-143	3	30
Endrin Ketone	8081B	0.310	0.400	77	0.315	0.400	79	59-143	2	30
Heptachlor	8081B	0.252	0.400	63	0.258	0.400	65	32-141	2	30
Heptachlor Epoxide	8081B	0.291	0.400	73	0.297	0.400	74	51-143	2	30
Methoxychlor	8081B	0.280	0.400	70	0.295	0.400	74	56-149	5	30
alpha-BHC	8081B	0.294	0.400	74	0.294	0.400	73	36-151	<1	30
alpha-Chlordane	8081B	0.287	0.400	72	0.293	0.400	73	50-139	2	30
beta-BHC	8081B	0.301	0.400	75	0.304	0.400	76	55-149	<1	30
delta-BHC	8081B	0.299	0.400	75	0.303	0.400	76	29-159	1	30
gamma-BHC (Lindane)	8081B	0.288	0.400	72	0.290	0.400	73	41-149	<1	30
gamma-Chlordane	8081B	0.273	0.400	68	0.279	0.400	70	50-140	2	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107052-02			RQ2107052-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.245	0.400	61	0.261	0.400	65	42-159	6	30
4,4'-DDE	8081B	0.225	0.400	56	0.253	0.400	63	47-147	12	30
4,4'-DDT	8081B	0.278	0.400	70	0.298	0.400	74	41-149	7	30
Aldrin	8081B	0.167	0.400	42	0.177	0.400	44	22-137	6	30
Dieldrin	8081B	0.249	0.400	62	0.277	0.400	69	52-144	11	30
Endosulfan I	8081B	0.231	0.400	58	0.262	0.400	65	52-136	13	30
Endosulfan II	8081B	0.266	0.400	67	0.286	0.400	72	57-138	7	30
Endosulfan Sulfate	8081B	0.273	0.400	68	0.293	0.400	73	34-156	7	30
Endrin	8081B	0.259	0.400	65	0.288	0.400	72	56-143	10	30
Endrin Ketone	8081B	0.282	0.400	71	0.303	0.400	76	59-143	7	30
Heptachlor	8081B	0.192	0.400	48	0.203	0.400	51	32-141	5	30
Heptachlor Epoxide	8081B	0.236	0.400	59	0.265	0.400	66	51-143	11	30
Methoxychlor	8081B	0.302	0.400	76	0.303	0.400	76	56-149	<1	30
alpha-BHC	8081B	0.197	0.400	49	0.206	0.400	51	36-151	4	30
alpha-Chlordane	8081B	0.227	0.400	57	0.255	0.400	64	50-139	11	30
beta-BHC	8081B	0.244	0.400	61	0.254	0.400	63	55-149	4	30
delta-BHC	8081B	0.239	0.400	60	0.254	0.400	63	29-159	6	30
gamma-BHC (Lindane)	8081B	0.210	0.400	53	0.221	0.400	55	41-149	5	30
gamma-Chlordane	8081B	0.219	0.400	55	0.243	0.400	61	50-140	11	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/29/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107126-06			RQ2107126-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.264	0.400	66	0.227	0.400	57	42-159	15	30
4,4'-DDE	8081B	0.257	0.400	64	0.225	0.400	56	47-147	13	30
4,4'-DDT	8081B	0.291	0.400	73	0.247	0.400	62	41-149	16	30
Aldrin	8081B	0.189	0.400	47	0.171	0.400	43	22-137	10	30
Dieldrin	8081B	0.272	0.400	68	0.235	0.400	59	52-144	14	30
Endosulfan I	8081B	0.264	0.400	66	0.227	0.400	57	52-136	15	30
Endosulfan II	8081B	0.276	0.400	69	0.237	0.400	59	57-138	15	30
Endosulfan Sulfate	8081B	0.288	0.400	72	0.248	0.400	62	34-156	15	30
Endrin	8081B	0.290	0.400	72	0.250	0.400	63	56-143	15	30
Endrin Ketone	8081B	0.288	0.400	72	0.247	0.400	62	59-143	16	30
Heptachlor	8081B	0.223	0.400	56	0.208	0.400	52	32-141	7	30
Heptachlor Epoxide	8081B	0.271	0.400	68	0.236	0.400	59	51-143	14	30
Methoxychlor	8081B	0.310	0.400	78	0.266	0.400	66	56-149	16	30
alpha-BHC	8081B	0.257	0.400	64	0.224	0.400	56	36-151	14	30
alpha-Chlordane	8081B	0.262	0.400	65	0.228	0.400	57	50-139	14	30
beta-BHC	8081B	0.292	0.400	73	0.254	0.400	63	55-149	14	30
delta-BHC	8081B	0.277	0.400	69	0.237	0.400	59	29-159	16	30
gamma-BHC (Lindane)	8081B	0.266	0.400	67	0.230	0.400	58	41-149	15	30
gamma-Chlordane	8081B	0.248	0.400	62	0.222	0.400	55	50-140	11	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-061421-SG-025	R2105966-001	60	55
WG-9954-061421-SG-026	R2105966-003	24	45
WG-9954-061421-SG-027	R2105966-004	53	57
RB-9954-061421-SG-002	R2105966-005	19	56
WG-9954-061421-SG-028	R2105966-006	68	65
WG-9954-061421-SG-029	R2105966-007	59	42
WG-9954-061421-SG-030	R2105966-008	32	40
WG-9954-061421-SG-031	R2105966-009	51	51
Method Blank	RQ2106974-01	48	33
Method Blank	RQ2107052-01	67	48
Method Blank	RQ2107126-05	48	32
Lab Control Sample	RQ2106974-02	59	54
Duplicate Lab Control Sample	RQ2106974-03	61	49
Lab Control Sample	RQ2107052-02	61	39
Duplicate Lab Control Sample	RQ2107052-03	67	50
Lab Control Sample	RQ2107126-06	48	49
Duplicate Lab Control Sample	RQ2107126-07	58	48

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106974-01	**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	06/22/21 13:50	6/18/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/22/21 13:50	6/18/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/22/21 13:50	6/18/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/22/21 13:50	6/18/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/22/21 13:50	6/18/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/22/21 13:50	6/18/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/22/21 13:50	6/18/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 152	06/22/21 13:50	
Tetrachloro-m-xylene	33	14 - 129	06/22/21 13:50	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107052-01	**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	06/23/21 16:29	6/21/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/23/21 16:29	6/21/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/23/21 16:29	6/21/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/23/21 16:29	6/21/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/23/21 16:29	6/21/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/23/21 16:29	6/21/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/23/21 16:29	6/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 152	06/23/21 16:29	
Tetrachloro-m-xylene	48	14 - 129	06/23/21 16:29	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2105966
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/24/21 14:51	6/22/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/24/21 14:51	6/22/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 152	06/24/21 14:51	
Tetrachloro-m-xylene	32	14 - 129	06/24/21 14:51	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/22/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2106974-02		RQ2106974-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.67	4.00	67	2.77	4.00	69	49-123	4	30
Aroclor 1260	8082A	2.78	4.00	70	3.09	4.00	77	30-120	11	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/23/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2107052-02			RQ2107052-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.10	4.00	53	2.77	4.00	69	49-123	27	30
Aroclor 1260	8082A	2.99	4.00	75	3.32	4.00	83	30-120	11	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2105966
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample RQ2107126-06			**Duplicate Lab Control Sample** RQ2107126-07				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.64	4.00	66	2.61	4.00	65	49-123	<1	30
Aroclor 1260	8082A	2.61	4.00	65	2.99	4.00	75	30-120	14	30

July 08, 2021 Service Request No:R2106072

Ms. Kathy Willy
GHD
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 17, 2021
For your reference, these analyses have been assigned our service request number **R2106072.**

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

ALS Environmental

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/17/2021
Sample Matrix: Water

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 06/17/2021. 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, 06/29/2021: 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, 06/29/2021: 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.

The RPD between the MS and the MSD was greater than the RPD limit. The percent recovery limit was met for both the MS and the MSD.

Semivoa GC:

Method 8081: Attempt to remove sulfur from the extract was insufficient and matrix interference persisted. R2106072-003 MS/DMS reported as follows: Analytes where peak is able to be discerned on one column, that result was reported without column confirmation. All others are reported as normal. Due to matrix interference, RPD for MS/DMS was not within limits for all analytes. No further corrective action possible.
Method 8082A, 06/24/2021: 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 8082A, 06/24/2021: 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, 729023: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Approved by _____ Date 07/08/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-061621-SG-032			Lab ID: R2106072-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	12		0.42	10	ug/L	8260C

CLIENT ID: WG-9954-061621-SG-033			Lab ID: R2106072-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	8.1	J	0.42	10	ug/L	8260C
alpha-BHC	0.025	J	0.020	0.045	ug/L	8081B
delta-BHC	0.051		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.033	J	0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061621-SG-034			Lab ID: R2106072-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	24	J	2.1	50	ug/L	8260C
Trichloroethene (TCE)	4.9	J	1.0	25	ug/L	8260C
1,2,4-Trichlorobenzene	6.3	J	1.2	9.1	ug/L	8270D
alpha-BHC	0.13		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.093		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061621-SG-035			Lab ID: R2106072-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	31	J	2.1	50	ug/L	8260C
alpha-BHC	0.18		0.020	0.045	ug/L	8081B
delta-BHC	0.66		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.22		0.020	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) **Service Request:**R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2106072-001	WG-9954-061621-SG-032	6/16/2021	1100
R2106072-002	TB-9954-061621-SG-006	6/16/2021	0800
R2106072-003	WG-9954-061621-SG-033	6/16/2021	1150
R2106072-004	WG-9954-061621-SG-034	6/16/2021	1325
R2106072-005	WG-9954-061621-SG-035	6/16/2021	1455

CHAIN OF CUSTODY RECORD

COC Number:

ADDRESS: 2055 NIAGARA FALLS BLVD N. FALLS PAGE 1 OF 1

PHONE: FAX:

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /D:			Total # of Containers: ~~161~~ (56) 45

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Sample Type: Grab (G) or Comp (C)	Sample Type: Filtered (Y/N)	Analysis Requested: VOC	Analysis Requested: SVOC	Analysis Requested: PEST/PCB	Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	WG-9954-061621-SG-032	06/16/21	11:00	W	G	N	X	X	X	7		
2	TB-9954-061621-SG-006	06/16/21	8:00	W	G	N	X			3		
3	WG-9954-061621-SG-033	06/16/21	11:50	W	G	N	X	X	X	21	X	
4	WG-9954-061621-SG-034	06/16/21	13:25	W	G	N	X	X	X	7		
5	WG-9954-061621-SG-035	06/16/21	14:55	W	G	N	X	X	X	7		
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

R2106072 5

GHD
Love Canal:292-402-D02-3100

TAT Required in business days (use separate COCs fro different TATs)
(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time		Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/16/21	16000	1		ALS	6/17/21	09/020
2					2				
3					3				

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#_____

T030477

ALS Environmental

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

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

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

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8081B / Pest OC	7D 8082A / PCB	7D 8270D / SVO	14D 8260C / VOC FP	1	2	3	4	5	Remarks
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 Cilibration Summaries

_X_ 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

R2106072 5

GHD
Love Canal:292-402-002-3100

Cooler Receipt and Preservation Check Form

Project/Client GHD Folder Number

Cooler received on 6/17/21 by: [illegible]

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROO) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

3. Temperature Readings Date: 6/17/21 Time: 1031 ID: IR#7 (IR#11) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	0.1	0.3					
Within 0-6°C?	(Y) 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 e on 6/17/21 at 1040

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/18/21 Time: 1330 by: [illegible]

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 Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: Client Covered 76626-C2571

Explain all Discrepancies/ Other Comments:

2 vials TB headspace

-035 cracked lid

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]

PC Secondary Review: _____

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

Client: GHD **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106072-001.01					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-001.02					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-001.03					
	8260C				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
		6/28/2021	1224	In Lab / KRUEST	
		6/28/2021	1307	R-001-S12 / KRUEST	
R2106072-001.04					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-001.05					
	8270D				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-001.07					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-001.08					
	8081B,8082A				
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-002.01					
	8260C				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
		6/28/2021	1224	In Lab / KRUEST	
		6/28/2021	1307	R-001-S12 / KRUEST	
R2106072-002.02					
		6/18/2021	1330	SMO / GLAFORCE	

Client: GHD **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-002.03					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.01					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-003.02					
	8260C				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
		6/28/2021	1224	In Lab / KRUEST	
		6/28/2021	1307	R-001-S12 / KRUEST	
R2106072-003.03					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.04					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.05					
	8270D				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106072-003.07					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-003.12					
		6/18/2021	1336	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.13					
		6/18/2021	1336	SMO / GLAFORCE	

Client: GHD **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.14					
		6/18/2021	1336	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.15					
		6/18/2021	1336	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.16					
		6/18/2021	1336	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.17					
		6/18/2021	1336	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-003.18					
	8081B,8082A				
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-003.19					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106072-003.20					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-003.21					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106072-003.22					

Client: GHD **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-003.23					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-003.24					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-003.25					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-003.26					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-004.01					
	8081B				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-004.02					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-004.03					
	8260C				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
		6/28/2021	1224	In Lab / KRUEST	
		6/28/2021	1307	R-001-S12 / KRUEST	
R2106072-004.04					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	

Client: GHD **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106072-004.05					
	8270D				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106072-004.07					
	8082A				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-004.08					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-005.01					
	8081B				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
R2106072-005.02					
	8260C				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
		6/28/2021	1224	In Lab / KRUEST	
		6/28/2021	1307	R-001-S12 / KRUEST	
R2106072-005.03					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-005.04					
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-001 / GLAFORCE	
R2106072-005.05					
	8270D				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106072-005.07					
	8082A				
		6/18/2021	1330	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8082A				
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106072-005.08					
		6/18/2021	1337	SMO / GLAFORCE	
		6/18/2021	1337	R-002 / GLAFORCE	

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.

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/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

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.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

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 Certifications[1]

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 laboratoryôs 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.

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Sample Name: WG-9954-061621-SG-032 **Date Collected:** 06/16/21
Lab Code: R2106072-001 **Date Received:** 06/17/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: TB-9954-061621-SG-006 **Date Collected:** 06/16/21
Lab Code: R2106072-002 **Date Received:** 06/17/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: WG-9954-061621-SG-033 **Date Collected:** 06/16/21
Lab Code: R2106072-003 **Date Received:** 06/17/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Sample Name: WG-9954-061621-SG-034 **Date Collected:** 06/16/21
Lab Code: R2106072-004 **Date Received:** 06/17/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

Analyst Summary report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061621-SG-035	**Date Collected:**	06/16/21
Lab Code:	R2106072-005	**Date Received:**	06/17/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	06/28/21 14:18	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 14:18	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 14:18	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 14:18	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 14:18	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 14:18	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 14:18	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 14:18	
2-Hexanone	10 U	10	0.20	1	06/28/21 14:18	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 14:18	
Acetone	10 U	10	5.0	1	06/28/21 14:18	
Benzene	5.0 U	5.0	0.20	1	06/28/21 14:18	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 14:18	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 14:18	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 14:18	
Carbon Disulfide	**12**	10	0.42	1	06/28/21 14:18	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 14:18	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 14:18	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 14:18	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 14:18	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 14:18	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 14:18	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 14:18	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 14:18	
Styrene	5.0 U	5.0	0.20	1	06/28/21 14:18	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 14:18	
Toluene	5.0 U	5.0	0.20	1	06/28/21 14:18	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 14:18	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 14:18	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 14:18	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 14:18	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 14:18	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 14:18	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 14:18	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 14:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	06/28/21 14:18	
Dibromofluoromethane	97	80 - 116	06/28/21 14:18	
Toluene-d8	98	87 - 121	06/28/21 14:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	26.1	JN
	unknown	1.62	123.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 08:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	TB-9954-061621-SG-006	**Units:**	ug/L
Lab Code:	R2106072-002	**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	06/28/21 13:56	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 13:56	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 13:56	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 13:56	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 13:56	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 13:56	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 13:56	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 13:56	
2-Hexanone	10 U	10	0.20	1	06/28/21 13:56	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 13:56	
Acetone	10 U	10	5.0	1	06/28/21 13:56	
Benzene	5.0 U	5.0	0.20	1	06/28/21 13:56	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 13:56	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 13:56	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 13:56	
Carbon Disulfide	10 U	10	0.42	1	06/28/21 13:56	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 13:56	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 13:56	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 13:56	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 13:56	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 13:56	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 13:56	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 13:56	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 13:56	
Styrene	5.0 U	5.0	0.20	1	06/28/21 13:56	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 13:56	
Toluene	5.0 U	5.0	0.20	1	06/28/21 13:56	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 13:56	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 13:56	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 13:56	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 13:56	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 13:56	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 13:56	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 13:56	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 13:56	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 08:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	TB-9954-061621-SG-006	**Units:**	ug/L
Lab Code:	R2106072-002	**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	06/28/21 13:56	
Dibromofluoromethane	101	80 - 116	06/28/21 13:56	
Toluene-d8	102	87 - 121	06/28/21 13:56	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 08:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	TB-9954-061621-SG-006	**Units:**	ug/L
Lab Code:	R2106072-002	**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	Silane, methoxytrimethyl-	2.91	23.3	JN
	unknown	4.48	10.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	06/28/21 14:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 14:40	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 14:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 14:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 14:40	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 14:40	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 14:40	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 14:40	
2-Hexanone	10 U	10	0.20	1	06/28/21 14:40	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 14:40	
Acetone	10 U	10	5.0	1	06/28/21 14:40	
Benzene	5.0 U	5.0	0.20	1	06/28/21 14:40	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 14:40	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 14:40	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 14:40	
Carbon Disulfide	**8.1 J**	10	0.42	1	06/28/21 14:40	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 14:40	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 14:40	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 14:40	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 14:40	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 14:40	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 14:40	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 14:40	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 14:40	
Styrene	5.0 U	5.0	0.20	1	06/28/21 14:40	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 14:40	
Toluene	5.0 U	5.0	0.20	1	06/28/21 14:40	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 14:40	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 14:40	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 14:40	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 14:40	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 14:40	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 14:40	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 14:40	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 14:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	06/28/21 14:40	
Dibromofluoromethane	100	80 - 116	06/28/21 14:40	
Toluene-d8	98	87 - 121	06/28/21 14:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	25.1	JN
	unknown	1.62	81.9	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	06/28/21 15:02	
1,1,2,2-Tetrachloroethane	25 U	25	1.0	5	06/28/21 15:02	
1,1,2-Trichloroethane	25 U	25	1.0	5	06/28/21 15:02	
1,1-Dichloroethane (1,1-DCA)	25 U	25	1.0	5	06/28/21 15:02	
1,1-Dichloroethene (1,1-DCE)	25 U	25	1.0	5	06/28/21 15:02	
1,2-Dichloroethane	25 U	25	1.0	5	06/28/21 15:02	
1,2-Dichloropropane	25 U	25	1.0	5	06/28/21 15:02	
2-Butanone (MEK)	50 U	50	3.9	5	06/28/21 15:02	
2-Hexanone	50 U	50	1.0	5	06/28/21 15:02	
4-Methyl-2-pentanone	50 U	50	1.0	5	06/28/21 15:02	
Acetone	50 U	50	25	5	06/28/21 15:02	
Benzene	25 U	25	1.0	5	06/28/21 15:02	
Bromodichloromethane	25 U	25	1.0	5	06/28/21 15:02	
Bromoform	25 U	25	1.3	5	06/28/21 15:02	
Bromomethane	25 U	25	3.5	5	06/28/21 15:02	
Carbon Disulfide	**24 J**	50	2.1	5	06/28/21 15:02	
Carbon Tetrachloride	25 U	25	1.7	5	06/28/21 15:02	
Chlorobenzene	25 U	25	1.0	5	06/28/21 15:02	
Chloroethane	25 U	25	1.2	5	06/28/21 15:02	
Chloroform	25 U	25	1.2	5	06/28/21 15:02	
Chloromethane	25 U	25	1.4	5	06/28/21 15:02	
Dibromochloromethane	25 U	25	1.0	5	06/28/21 15:02	
Dichloromethane	25 U	25	3.3	5	06/28/21 15:02	
Ethylbenzene	25 U	25	1.0	5	06/28/21 15:02	
Styrene	25 U	25	1.0	5	06/28/21 15:02	
Tetrachloroethene (PCE)	25 U	25	1.1	5	06/28/21 15:02	
Toluene	25 U	25	1.0	5	06/28/21 15:02	
Trichloroethene (TCE)	**4.9 J**	25	1.0	5	06/28/21 15:02	
Vinyl Acetate	50 U	50	5.5	5	06/28/21 15:02	
Vinyl Chloride	25 U	25	1.0	5	06/28/21 15:02	
Xylenes, Total	25 U	25	1.2	5	06/28/21 15:02	
cis-1,2-Dichloroethene	25 U	25	1.2	5	06/28/21 15:02	
cis-1,3-Dichloropropene	25 U	25	1.0	5	06/28/21 15:02	
trans-1,2-Dichloroethene	25 U	25	1.0	5	06/28/21 15:02	
trans-1,3-Dichloropropene	25 U	25	1.2	5	06/28/21 15:02	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	06/28/21 15:02	
Dibromofluoromethane	99	80 - 116	06/28/21 15:02	
Toluene-d8	100	87 - 121	06/28/21 15:02	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	96.5	JN
001825-61-2	Silane, methoxytrimethyl-	2.92	34.6	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	06/28/21 15:24	
1,1,2,2-Tetrachloroethane	25 U	25	1.0	5	06/28/21 15:24	
1,1,2-Trichloroethane	25 U	25	1.0	5	06/28/21 15:24	
1,1-Dichloroethane (1,1-DCA)	25 U	25	1.0	5	06/28/21 15:24	
1,1-Dichloroethene (1,1-DCE)	25 U	25	1.0	5	06/28/21 15:24	
1,2-Dichloroethane	25 U	25	1.0	5	06/28/21 15:24	
1,2-Dichloropropane	25 U	25	1.0	5	06/28/21 15:24	
2-Butanone (MEK)	50 U	50	3.9	5	06/28/21 15:24	
2-Hexanone	50 U	50	1.0	5	06/28/21 15:24	
4-Methyl-2-pentanone	50 U	50	1.0	5	06/28/21 15:24	
Acetone	50 U	50	25	5	06/28/21 15:24	
Benzene	25 U	25	1.0	5	06/28/21 15:24	
Bromodichloromethane	25 U	25	1.0	5	06/28/21 15:24	
Bromoform	25 U	25	1.3	5	06/28/21 15:24	
Bromomethane	25 U	25	3.5	5	06/28/21 15:24	
Carbon Disulfide	**31 J**	50	2.1	5	06/28/21 15:24	
Carbon Tetrachloride	25 U	25	1.7	5	06/28/21 15:24	
Chlorobenzene	25 U	25	1.0	5	06/28/21 15:24	
Chloroethane	25 U	25	1.2	5	06/28/21 15:24	
Chloroform	25 U	25	1.2	5	06/28/21 15:24	
Chloromethane	25 U	25	1.4	5	06/28/21 15:24	
Dibromochloromethane	25 U	25	1.0	5	06/28/21 15:24	
Dichloromethane	25 U	25	3.3	5	06/28/21 15:24	
Ethylbenzene	25 U	25	1.0	5	06/28/21 15:24	
Styrene	25 U	25	1.0	5	06/28/21 15:24	
Tetrachloroethene (PCE)	25 U	25	1.1	5	06/28/21 15:24	
Toluene	25 U	25	1.0	5	06/28/21 15:24	
Trichloroethene (TCE)	25 U	25	1.0	5	06/28/21 15:24	
Vinyl Acetate	50 U	50	5.5	5	06/28/21 15:24	
Vinyl Chloride	25 U	25	1.0	5	06/28/21 15:24	
Xylenes, Total	25 U	25	1.2	5	06/28/21 15:24	
cis-1,2-Dichloroethene	25 U	25	1.2	5	06/28/21 15:24	
cis-1,3-Dichloropropene	25 U	25	1.0	5	06/28/21 15:24	
trans-1,2-Dichloroethene	25 U	25	1.0	5	06/28/21 15:24	
trans-1,3-Dichloropropene	25 U	25	1.2	5	06/28/21 15:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	06/28/21 15:24	
Dibromofluoromethane	97	80 - 116	06/28/21 15:24	
Toluene-d8	100	87 - 121	06/28/21 15:24	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	140.2	JN
001825-61-2	Silane, methoxytrimethyl-	2.92	27.0	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
www.alsglobal.com

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	1.2	1	07/02/21 17:17	6/22/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
2,4-Dinitrophenol	45 U	45	20	1	07/02/21 17:17	6/22/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	07/02/21 17:17	6/22/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
2-Methylphenol	9.1 U	9.1	1.0	1	07/02/21 17:17	6/22/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	07/02/21 17:17	6/22/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	07/02/21 17:17	6/22/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	07/02/21 17:17	6/22/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	07/02/21 17:17	6/22/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	07/02/21 17:17	6/22/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
4-Nitrophenol	45 U	45	6.4	1	07/02/21 17:17	6/22/21	
Acenaphthene	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
Acenaphthylene	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
Anthracene	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	07/02/21 17:17	6/22/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	07/02/21 17:17	6/22/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
Benzoic Acid	45 U	45	36	1	07/02/21 17:17	6/22/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	07/02/21 17:17	6/22/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	07/02/21 17:17	6/22/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	07/02/21 17:17	6/22/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
Chrysene	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	1.7	1	07/02/21 17:17	6/22/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	07/02/21 17:17	6/22/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
Dibenzofuran	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
Fluoranthene	9.1 U	9.1	1.5	1	07/02/21 17:17	6/22/21	
Fluorene	9.1 U	9.1	1.3	1	07/02/21 17:17	6/22/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	07/02/21 17:17	6/22/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	07/02/21 17:17	6/22/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	07/02/21 17:17	6/22/21	
Hexachloroethane	9.1 U	9.1	1.1	1	07/02/21 17:17	6/22/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	07/02/21 17:17	6/22/21	
Isophorone	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	07/02/21 17:17	6/22/21	
Naphthalene	9.1 U	9.1	1.2	1	07/02/21 17:17	6/22/21	
Nitrobenzene	9.1 U	9.1	1.5	1	07/02/21 17:17	6/22/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	07/02/21 17:17	6/22/21	
Phenanthrene	9.1 U	9.1	1.4	1	07/02/21 17:17	6/22/21	
Phenol	9.1 U	9.1	1.0	1	07/02/21 17:17	6/22/21	
Pyrene	9.1 U	9.1	1.5	1	07/02/21 17:17	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	07/02/21 17:17	
2-Fluorobiphenyl	56	31 - 118	07/02/21 17:17	
2-Fluorophenol	40	10 - 105	07/02/21 17:17	
Nitrobenzene-d5	58	31 - 110	07/02/21 17:17	
Phenol-d6	26	10 - 107	07/02/21 17:17	
p-Terphenyl-d14	74	10 - 165	07/02/21 17:17	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	13.79	4.6	J
	unknown	8.01	3.7	J

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	1.2	1	06/29/21 00:19	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 00:19	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 00:19	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 00:19	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 00:19	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 00:19	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 00:19	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 00:19	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 00:19	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 00:19	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 00:19	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 00:19	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 00:19	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 00:19	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 00:19	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 00:19	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	1.7	1	06/29/21 00:19	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 00:19	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 00:19	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 00:19	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 00:19	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 00:19	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 00:19	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 00:19	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 00:19	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 00:19	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 00:19	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 00:19	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 00:19	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 00:19	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 00:19	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 00:19	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	06/29/21 00:19	
2-Fluorobiphenyl	70	31 - 118	06/29/21 00:19	
2-Fluorophenol	47	10 - 105	06/29/21 00:19	
Nitrobenzene-d5	71	31 - 110	06/29/21 00:19	
Phenol-d6	31	10 - 107	06/29/21 00:19	
p-Terphenyl-d14	53	10 - 165	06/29/21 00:19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	4.0	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	**6.3 J**	9.1	1.2	1	06/29/21 01:50	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 01:50	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 01:50	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 01:50	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 01:50	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 01:50	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 01:50	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 01:50	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 01:50	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 01:50	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 01:50	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 01:50	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 01:50	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 01:50	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 01:50	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 01:50	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	1.7	1	06/29/21 01:50	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 01:50	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 01:50	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 01:50	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 01:50	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 01:50	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 01:50	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 01:50	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 01:50	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 01:50	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 01:50	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 01:50	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 01:50	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 01:50	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 01:50	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 01:50	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	06/29/21 01:50	
2-Fluorobiphenyl	71	31 - 118	06/29/21 01:50	
2-Fluorophenol	45	10 - 105	06/29/21 01:50	
Nitrobenzene-d5	68	31 - 110	06/29/21 01:50	
Phenol-d6	30	10 - 107	06/29/21 01:50	
p-Terphenyl-d14	59	10 - 165	06/29/21 01:50	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	8.09	4.3	J

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	1.2	1	06/29/21 02:20	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 02:20	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 02:20	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 02:20	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 02:20	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 02:20	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 02:20	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 02:20	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 02:20	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 02:20	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 02:20	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 02:20	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 02:20	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 02:20	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 02:20	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 02:20	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	1.7	1	06/29/21 02:20	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 02:20	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 02:20	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 02:20	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 02:20	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 02:20	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 02:20	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 02:20	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 02:20	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 02:20	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 02:20	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 02:20	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 02:20	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 02:20	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 02:20	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 02:20	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	06/29/21 02:20	
2-Fluorobiphenyl	58	31 - 118	06/29/21 02:20	
2-Fluorophenol	43	10 - 105	06/29/21 02:20	
Nitrobenzene-d5	63	31 - 110	06/29/21 02:20	
Phenol-d6	27	10 - 107	06/29/21 02:20	
p-Terphenyl-d14	59	10 - 165	06/29/21 02:20	

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
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	0.020	1	06/29/21 21:01	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 21:01	6/22/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
delta-BHC	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/29/21 21:01	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	51	10 - 164	06/29/21 21:01	
Tetrachloro-m-xylene	56	10 - 147	06/29/21 21:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	0.020	1	06/30/21 18:54	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 18:54	6/22/21	
alpha-BHC	**0.025 J**	0.045	0.020	1	06/30/21 18:54	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	
delta-BHC	**0.051**	0.045	0.020	1	06/30/21 18:54	6/22/21	
gamma-BHC (Lindane)	**0.033 J**	0.045	0.020	1	06/30/21 18:54	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/30/21 18:54	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 164	06/30/21 18:54	
Tetrachloro-m-xylene	49	10 - 147	06/30/21 18:54	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	0.020	1	06/29/21 22:18	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 22:18	6/22/21	
alpha-BHC	**0.13**	0.045	0.020	1	06/29/21 22:18	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
delta-BHC	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	
gamma-BHC (Lindane)	**0.093**	0.045	0.020	1	06/29/21 22:18	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/29/21 22:18	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 164	06/29/21 22:18	
Tetrachloro-m-xylene	55	10 - 147	06/29/21 22:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	0.020	1	06/29/21 22:37	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 22:37	6/22/21	
alpha-BHC	**0.18**	0.045	0.020	1	06/29/21 22:37	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	
delta-BHC	**0.66**	0.045	0.020	1	06/29/21 22:37	6/22/21	
gamma-BHC (Lindane)	**0.22**	0.045	0.020	1	06/29/21 22:37	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/29/21 22:37	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	34	10 - 164	06/29/21 22:37	
Tetrachloro-m-xylene	52	10 - 147	06/29/21 22:37	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:00
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-032	**Units:**	ug/L
Lab Code:	R2106072-001	**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	0.50	1	06/24/21 16:48	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 16:48	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 16:48	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 16:48	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 16:48	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 16:48	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 16:48	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	57	10 - 152	06/24/21 16:48	
Tetrachloro-m-xylene	59	14 - 129	06/24/21 16:48	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 11:50
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**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	0.50	1	06/24/21 17:08	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 17:08	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 17:08	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 17:08	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 17:08	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 17:08	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 17:08	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	55	10 - 152	06/24/21 17:08	
Tetrachloro-m-xylene	49	14 - 129	06/24/21 17:08	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 13:25
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-034	**Units:**	ug/L
Lab Code:	R2106072-004	**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	0.50	1	06/24/21 18:26	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 18:26	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 18:26	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 18:26	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 18:26	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 18:26	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 18:26	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 152	06/24/21 18:26	
Tetrachloro-m-xylene	68	14 - 129	06/24/21 18:26	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21 14:55
Sample Matrix:	Water	**Date Received:**	06/17/21 10:20
Sample Name:	WG-9954-061621-SG-035	**Units:**	ug/L
Lab Code:	R2106072-005	**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	0.50	1	06/24/21 18:46	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 18:46	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 18:46	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 18:46	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 18:46	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 18:46	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 18:46	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 152	06/24/21 18:46	
Tetrachloro-m-xylene	62	14 - 129	06/24/21 18:46	

QC Summary 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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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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-061621-SG-032	R2106072-001	92	97	98
TB-9954-061621-SG-006	R2106072-002	97	101	102
WG-9954-061621-SG-033	R2106072-003	93	100	98
WG-9954-061621-SG-034	R2106072-004	94	99	100
WG-9954-061621-SG-035	R2106072-005	95	97	100
Method Blank	RQ2107436-04	96	100	100
Lab Control Sample	RQ2107436-03	97	103	102
WG-9954-061621-SG-033 MS	RQ2107436-05	103	105	104
WG-9954-061621-SG-033 DMS	RQ2107436-06	96	99	96

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21
Sample Matrix:	Water	**Date Received:**	06/17/21
		Date Analyzed:	06/28/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2107436-05			**Duplicate Matrix Spike** RQ2107436-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	5.0 U	53.6	50.0	107	56.0	50.0	112	74-127	4	30
1,1,2,2-Tetrachloroethane	5.0 U	52.2	50.0	104	50.2	50.0	100	72-122	4	30
1,1,2-Trichloroethane	5.0 U	49.7	50.0	99	49.8	50.0	100	82-121	<1	30
1,1-Dichloroethane (1,1-DCA)	5.0 U	49.8	50.0	100	50.6	50.0	101	74-132	2	30
1,1-Dichloroethene (1,1-DCE)	5.0 U	66.0	50.0	132 *	67.9	50.0	136 *	71-118	3	30
1,2-Dichloroethane	5.0 U	49.4	50.0	99	48.2	50.0	96	68-130	3	30
1,2-Dichloropropane	5.0 U	48.2	50.0	96	47.9	50.0	96	79-124	<1	30
2-Butanone (MEK)	10 U	49.1	50.0	98	48.8	50.0	98	61-137	<1	30
2-Hexanone	10 U	54.8	50.0	110	52.0	50.0	104	56-132	5	30
4-Methyl-2-pentanone	10 U	55.9	50.0	112	54.7	50.0	109	60-141	2	30
Acetone	10 U	50.4	50.0	101	47.2	50.0	94	35-183	6	30
Benzene	5.0 U	51.5	50.0	103	51.3	50.0	103	76-129	<1	30
Bromodichloromethane	5.0 U	47.3	50.0	95	48.6	50.0	97	78-133	3	30
Bromoform	5.0 U	47.0	50.0	94	49.3	50.0	99	58-133	5	30
Bromomethane	5.0 U	24.9	50.0	50	18.4	50.0	37	10-184	30	30
Carbon Disulfide	8.1 J	56.1	50.0	96	56.1	50.0	96	59-140	<1	30
Carbon Tetrachloride	5.0 U	51.3	50.0	103	52.9	50.0	106	65-135	3	30
Chlorobenzene	5.0 U	50.1	50.0	100	48.9	50.0	98	76-125	2	30
Chloroethane	5.0 U	89.4	50.0	179 *	44.8	50.0	90	48-146	67*	30
Chloroform	5.0 U	49.2	50.0	98	50.5	50.0	101	75-130	3	30
Chloromethane	5.0 U	47.5	50.0	95	46.2	50.0	92	55-160	3	30
Dibromochloromethane	5.0 U	46.6	50.0	93	45.9	50.0	92	72-128	2	30
Dichloromethane	5.0 U	46.6	50.0	93	46.9	50.0	94	73-122	<1	30
Ethylbenzene	5.0 U	53.9	50.0	108	50.6	50.0	101	72-134	6	30
Styrene	5.0 U	51.2	50.0	102	50.4	50.0	101	74-136	1	30
Tetrachloroethene (PCE)	5.0 U	54.0	50.0	108	52.0	50.0	104	72-125	4	30
Toluene	5.0 U	53.5	50.0	107	52.3	50.0	105	79-119	2	30
Trichloroethene (TCE)	5.0 U	49.8	50.0	100	47.9	50.0	96	74-122	4	30
Vinyl Acetate	10 U	64.1	50.0	128	62.4	50.0	125	48-172	3	30
Vinyl Chloride	5.0 U	48.2	50.0	96	47.5	50.0	95	74-159	2	30
cis-1,2-Dichloroethene	5.0 U	52.1	50.0	104	53.1	50.0	106	77-127	2	30
cis-1,3-Dichloropropene	5.0 U	50.1	50.0	100	49.4	50.0	99	52-134	1	30
trans-1,2-Dichloroethene	5.0 U	58.4	50.0	117	58.4	50.0	117	73-118	<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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21
Sample Matrix:	Water	**Date Received:**	06/17/21
		Date Analyzed:	06/28/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2107436-05			Duplicate Matrix Spike RQ2107436-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
trans-1,3-Dichloropropene	5.0 U	48.0	50.0	96	48.5	50.0	97	71-133	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107436-04	**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	06/28/21 12:28	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 12:28	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 12:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 12:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 12:28	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 12:28	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 12:28	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 12:28	
2-Hexanone	10 U	10	0.20	1	06/28/21 12:28	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 12:28	
Acetone	10 U	10	5.0	1	06/28/21 12:28	
Benzene	5.0 U	5.0	0.20	1	06/28/21 12:28	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 12:28	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 12:28	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 12:28	
Carbon Disulfide	10 U	10	0.42	1	06/28/21 12:28	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 12:28	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 12:28	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 12:28	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 12:28	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 12:28	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 12:28	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 12:28	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 12:28	
Styrene	5.0 U	5.0	0.20	1	06/28/21 12:28	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 12:28	
Toluene	5.0 U	5.0	0.20	1	06/28/21 12:28	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 12:28	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 12:28	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 12:28	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 12:28	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 12:28	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 12:28	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 12:28	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 12:28	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107436-04	**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	06/28/21 12:28	
Dibromofluoromethane	100	80 - 116	06/28/21 12:28	
Toluene-d8	100	87 - 121	06/28/21 12:28	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107436-04	**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			

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107436-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.6	20.0	98	75-125
1,1,2,2-Tetrachloroethane	8260C	18.4	20.0	92	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	24.6	20.0	123 *	71-118
1,2-Dichloroethane	8260C	19.1	20.0	95	71-127
1,2-Dichloropropane	8260C	18.4	20.0	92	80-119
2-Butanone (MEK)	8260C	18.8	20.0	94	61-137
2-Hexanone	8260C	19.3	20.0	96	63-124
4-Methyl-2-pentanone	8260C	21.3	20.0	106	66-124
Acetone	8260C	17.6	20.0	88	40-161
Benzene	8260C	19.2	20.0	96	79-119
Bromodichloromethane	8260C	18.8	20.0	94	81-123
Bromoform	8260C	17.2	20.0	86	65-146
Bromomethane	8260C	25.2	20.0	126	42-166
Carbon Disulfide	8260C	22.4	20.0	112	66-128
Carbon Tetrachloride	8260C	17.6	20.0	88	70-127
Chlorobenzene	8260C	18.1	20.0	90	80-121
Chloroethane	8260C	20.2	20.0	101	62-131
Chloroform	8260C	18.9	20.0	95	79-120
Chloromethane	8260C	18.3	20.0	92	65-135
Dibromochloromethane	8260C	17.4	20.0	87	72-128
Dichloromethane	8260C	17.6	20.0	88	73-122
Ethylbenzene	8260C	18.7	20.0	94	76-120
Styrene	8260C	18.0	20.0	90	80-124
Tetrachloroethene (PCE)	8260C	18.4	20.0	92	72-125
Toluene	8260C	19.3	20.0	96	79-119
Trichloroethene (TCE)	8260C	18.3	20.0	91	74-122
Vinyl Acetate	8260C	26.6	20.0	133	52-174
Vinyl Chloride	8260C	16.7	20.0	84	74-159
cis-1,2-Dichloroethene	8260C	20.4	20.0	102	80-121
cis-1,3-Dichloropropene	8260C	19.1	20.0	95	77-122
trans-1,2-Dichloroethene	8260C	20.0	20.0	100	73-118

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

Service Request: R2106072
Date Analyzed: 06/28/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107436-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	19.1	20.0	95	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
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-061621-SG-032	R2106072-001	86	56	40
WG-9954-061621-SG-033	R2106072-003	89	70	47
WG-9954-061621-SG-034	R2106072-004	84	71	45
WG-9954-061621-SG-035	R2106072-005	79	58	43
Method Blank	RQ2107127-01	70	62	49
Method Blank	RQ2107202-03	78	62	51
Lab Control Sample	RQ2107127-02	65	62	47
Duplicate Lab Control Sample	RQ2107127-03	92	80	56
Lab Control Sample	RQ2107202-04	71	66	46
Duplicate Lab Control Sample	RQ2107202-05	75	64	48
WG-9954-061621-SG-033 MS	RQ2107202-01	79	71	46
WG-9954-061621-SG-033 DMS	RQ2107202-02	93	81	54

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-061621-SG-032	R2106072-001	58	26	74
WG-9954-061621-SG-033	R2106072-003	71	31	53
WG-9954-061621-SG-034	R2106072-004	68	30	59
WG-9954-061621-SG-035	R2106072-005	63	27	59
Method Blank	RQ2107127-01	72	33	88
Method Blank	RQ2107202-03	68	33	78
Lab Control Sample	RQ2107127-02	64	32	79
Duplicate Lab Control Sample	RQ2107127-03	78	40	96
Lab Control Sample	RQ2107202-04	70	33	71
Duplicate Lab Control Sample	RQ2107202-05	66	32	70
WG-9954-061621-SG-033 MS	RQ2107202-01	72	32	52
WG-9954-061621-SG-033 DMS	RQ2107202-02	79	37	67

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21
Sample Matrix:	Water	**Date Received:**	06/17/21
		Date Analyzed:	06/29/21
		Date Extracted:	06/23/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2107202-01			RQ2107202-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	9.1 U	43.4	72.7	60	51.7	72.7	71	10-127	17	30
1,2-Dichlorobenzene	9.1 U	45.4	72.7	62	52.3	72.7	72	17-105	15	30
1,3-Dichlorobenzene	9.1 U	44.4	72.7	61	51.8	72.7	71	21-99	15	30
1,4-Dichlorobenzene	9.1 U	43.3	72.7	60	50.9	72.7	70	10-124	15	30
2,4,5-Trichlorophenol	9.1 U	53.1	72.7	73	58.6	72.7	81	48-134	10	30
2,4,6-Trichlorophenol	9.1 U	52.6	72.7	72	61.9	72.7	85	44-135	17	30
2,4-Dichlorophenol	9.1 U	52.2	72.7	72	58.4	72.7	80	40-130	11	30
2,4-Dimethylphenol	9.1 U	56.5	72.7	78	58.7	72.7	81	35-99	4	30
2,4-Dinitrophenol	45 U	56.3	72.7	77	63.2	72.7	87	21-168	12	30
2,4-Dinitrotoluene	9.1 U	71.8	72.7	99	74.5	72.7	102	37-143	3	30
2,6-Dinitrotoluene	9.1 U	69.2	72.7	95	75.3	72.7	104	39-136	9	30
2-Chloronaphthalene	9.1 U	51.1	72.7	70	61.9	72.7	85	40-108	19	30
2-Chlorophenol	9.1 U	46.4	72.7	64	52.8	72.7	73	37-112	13	30
2-Methylnaphthalene	9.1 U	49.8	72.7	69	59.3	72.7	82	34-102	17	30
2-Methylphenol	9.1 U	46.4	72.7	64	52.6	72.7	72	37-102	12	30
2-Nitroaniline	9.1 U	66.1	72.7	91	74.8	72.7	103	40-136	12	30
2-Nitrophenol	9.1 U	55.9	72.7	77	60.8	72.7	84	27-143	9	30
3,3'-Dichlorobenzidine	9.1 U	67.3	72.7	93	74.9	72.7	103	11-131	10	30
3- and 4-Methylphenol Coelution	9.1 U	45.2	72.7	62	52.7	72.7	72	30-95	15	30
3-Nitroaniline	9.1 U	61.9	72.7	85	65.4	72.7	90	19-117	6	30
4,6-Dinitro-2-methylphenol	45 U	68.3	72.7	94	77.4	72.7	106	25-154	12	30
4-Bromophenyl Phenyl Ether	9.1 U	53.3	72.7	73	62.8	72.7	86	39-115	16	30
4-Chloro-3-methylphenol	9.1 U	55.9	72.7	77	62.5	72.7	86	41-126	11	30
4-Chloroaniline	9.1 U	54.1	72.7	74	64.6	72.7	89	19-111	18	30
4-Chlorophenyl Phenyl Ether	9.1 U	57.1	72.7	79	61.2	72.7	84	41-111	6	30
4-Nitroaniline	9.1 U	68.5	72.7	94	67.2	72.7	92	18-143	2	30
4-Nitrophenol	45 U	33.9 J	72.7	47	34.7 J	72.7	48	10-126	2	30
Acenaphthene	9.1 U	56.8	72.7	78	62.9	72.7	87	43-117	11	30
Acenaphthylene	9.1 U	59.9	72.7	82	66.7	72.7	92	45-119	11	30
Anthracene	9.1 U	61.2	72.7	84	68.8	72.7	95	45-127	12	30
Benz(a)anthracene	9.1 U	41.2	72.7	57	51.8	72.7	71	46-126	22	30
Benzo(a)pyrene	9.1 U	42.3	72.7	58	59.9	72.7	82	44-114	34*	30
Benzo(b)fluoranthene	9.1 U	33.8	72.7	47	48.0	72.7	66	41-127	34*	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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21
Sample Matrix:	Water	**Date Received:**	06/17/21
		Date Analyzed:	06/29/21
		Date Extracted:	06/23/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2107202-01			RQ2107202-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	9.1 U	43.1	72.7	59	58.6	72.7	81	50-143	31*	30
Benzo(k)fluoranthene	9.1 U	35.4	72.7	49	51.4	72.7	71	46-139	37*	30
Benzoic Acid	45 U	67.1	109	61	72.1	109	66	10-94	8	30
Benzyl Alcohol	9.1 U	53.6	72.7	74	62.2	72.7	86	31-109	15	30
2,2'-Oxybis(1-chloropropane)	9.1 U	48.7	72.7	67	57.7	72.7	79	21-126	16	30
Bis(2-chloroethoxy)methane	9.1 U	54.0	72.7	74	59.1	72.7	81	41-118	9	30
Bis(2-chloroethyl) Ether	9.1 U	47.6	72.7	65	52.8	72.7	73	33-108	12	30
Bis(2-ethylhexyl) Phthalate	9.1 U	44.2	72.7	61	56.1	72.7	77	41-132	23	30
Butyl Benzyl Phthalate	9.1 U	56.1	72.7	77	67.2	72.7	92	41-148	18	30
Chrysene	9.1 U	38.6	72.7	53	51.7	72.7	71	47-126	29	30
Di-n-butyl Phthalate	9.1 U	68.7	72.7	94	79.2	72.7	109	43-130	15	30
Di-n-octyl Phthalate	9.1 U	41.5	72.7	57	60.5	72.7	83	40-139	37*	30
Dibenz(a,h)anthracene	9.1 U	38.5	72.7	53	53.7	72.7	74	43-136	33*	30
Dibenzofuran	9.1 U	61.5	72.7	84	64.7	72.7	89	46-119	6	30
Diethyl Phthalate	9.1 U	59.6	72.7	82	61.9	72.7	85	36-122	4	30
Dimethyl Phthalate	9.1 U	63.2	72.7	87	66.6	72.7	92	33-123	6	30
Fluoranthene	9.1 U	59.8	72.7	82	70.8	72.7	97	43-135	17	30
Fluorene	9.1 U	63.4	72.7	87	66.6	72.7	92	43-113	6	30
Hexachlorobenzene	9.1 U	44.0	72.7	60	55.0	72.7	76	42-125	24	30
Hexachlorobutadiene	9.1 U	45.5	72.7	63	51.3	72.7	71	10-111	12	30
Hexachlorocyclopentadiene	9.1 U	20.0	72.7	27	24.5	72.7	34	10-103	23	30
Hexachloroethane	9.1 U	44.0	72.7	60	52.4	72.7	72	12-101	18	30
Indeno(1,2,3-cd)pyrene	9.1 U	38.4	72.7	53	52.4	72.7	72	49-140	30	30
Isophorone	9.1 U	55.4	72.7	76	61.1	72.7	84	40-111	10	30
N-Nitrosodi-n-propylamine	9.1 U	51.9	72.7	71	61.3	72.7	84	35-108	17	30
N-Nitrosodiphenylamine	9.1 U	70.9	72.7	98	73.6	72.7	101	43-127	3	30
Naphthalene	9.1 U	48.2	72.7	66	56.7	72.7	78	37-108	17	30
Nitrobenzene	9.1 U	53.5	72.7	73	59.2	72.7	81	35-112	10	30
Pentachlorophenol (PCP)	45 U	62.4	72.7	86	71.2	72.7	98	29-164	13	30
Phenanthrene	9.1 U	58.0	72.7	80	66.8	72.7	92	46-123	14	30
Phenol	9.1 U	23.7	72.7	33	29.3	72.7	40	10-113	19	30
Pyrene	9.1 U	57.2	72.7	79	66.3	72.7	91	44-129	14	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107127-01	**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	06/24/21 22:13	6/22/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
2,4-Dinitrophenol	50 U	50	20	1	06/24/21 22:13	6/22/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/24/21 22:13	6/22/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
2-Chlorophenol	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
2-Methylphenol	10 U	10	1.0	1	06/24/21 22:13	6/22/21	
2-Nitroaniline	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
2-Nitrophenol	10 U	10	1.5	1	06/24/21 22:13	6/22/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
3-Nitroaniline	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/24/21 22:13	6/22/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/24/21 22:13	6/22/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
4-Chloroaniline	10 U	10	1.0	1	06/24/21 22:13	6/22/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/24/21 22:13	6/22/21	
4-Nitroaniline	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
4-Nitrophenol	50 U	50	6.4	1	06/24/21 22:13	6/22/21	
Acenaphthene	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
Acenaphthylene	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
Anthracene	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
Benz(a)anthracene	10 U	10	1.6	1	06/24/21 22:13	6/22/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/24/21 22:13	6/22/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
Benzoic Acid	50 U	50	36	1	06/24/21 22:13	6/22/21	
Benzyl Alcohol	10 U	10	1.6	1	06/24/21 22:13	6/22/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/24/21 22:13	6/22/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/24/21 22:13	6/22/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
Chrysene	10 U	10	1.2	1	06/24/21 22:13	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107127-01	**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	1.7	1	06/24/21 22:13	6/22/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/24/21 22:13	6/22/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
Dibenzofuran	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
Diethyl Phthalate	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
Fluoranthene	10 U	10	1.5	1	06/24/21 22:13	6/22/21	
Fluorene	10 U	10	1.3	1	06/24/21 22:13	6/22/21	
Hexachlorobenzene	10 U	10	1.6	1	06/24/21 22:13	6/22/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/24/21 22:13	6/22/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/24/21 22:13	6/22/21	
Hexachloroethane	10 U	10	1.1	1	06/24/21 22:13	6/22/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/24/21 22:13	6/22/21	
Isophorone	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/24/21 22:13	6/22/21	
Naphthalene	10 U	10	1.2	1	06/24/21 22:13	6/22/21	
Nitrobenzene	10 U	10	1.5	1	06/24/21 22:13	6/22/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/24/21 22:13	6/22/21	
Phenanthrene	10 U	10	1.4	1	06/24/21 22:13	6/22/21	
Phenol	10 U	10	1.0	1	06/24/21 22:13	6/22/21	
Pyrene	10 U	10	1.5	1	06/24/21 22:13	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	70	35 - 141	06/24/21 22:13	
2-Fluorobiphenyl	62	31 - 118	06/24/21 22:13	
2-Fluorophenol	49	10 - 105	06/24/21 22:13	
Nitrobenzene-d5	72	31 - 110	06/24/21 22:13	
Phenol-d6	33	10 - 107	06/24/21 22:13	
p-Terphenyl-d14	88	10 - 165	06/24/21 22:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	13.99	4.0	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107202-03	**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	06/28/21 22:49	6/23/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2,4-Dinitrophenol	50 U	50	20	1	06/28/21 22:49	6/23/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/28/21 22:49	6/23/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2-Chlorophenol	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
2-Methylphenol	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
2-Nitroaniline	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2-Nitrophenol	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
3-Nitroaniline	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/28/21 22:49	6/23/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/28/21 22:49	6/23/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
4-Chloroaniline	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
4-Nitroaniline	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
4-Nitrophenol	50 U	50	6.4	1	06/28/21 22:49	6/23/21	
Acenaphthene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Acenaphthylene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Anthracene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Benz(a)anthracene	10 U	10	1.6	1	06/28/21 22:49	6/23/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Benzoic Acid	50 U	50	36	1	06/28/21 22:49	6/23/21	
Benzyl Alcohol	10 U	10	1.6	1	06/28/21 22:49	6/23/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/28/21 22:49	6/23/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/28/21 22:49	6/23/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Chrysene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107202-03	**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	1.7	1	06/28/21 22:49	6/23/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/28/21 22:49	6/23/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
Dibenzofuran	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Diethyl Phthalate	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Fluoranthene	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
Fluorene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Hexachlorobenzene	10 U	10	1.6	1	06/28/21 22:49	6/23/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/28/21 22:49	6/23/21	
Hexachloroethane	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/28/21 22:49	6/23/21	
Isophorone	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/28/21 22:49	6/23/21	
Naphthalene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
Nitrobenzene	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/28/21 22:49	6/23/21	
Phenanthrene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Phenol	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
Pyrene	10 U	10	1.5	1	06/28/21 22:49	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	06/28/21 22:49	
2-Fluorobiphenyl	62	31 - 118	06/28/21 22:49	
2-Fluorophenol	51	10 - 105	06/28/21 22:49	
Nitrobenzene-d5	68	31 - 110	06/28/21 22:49	
Phenol-d6	33	10 - 107	06/28/21 22:49	
p-Terphenyl-d14	78	10 - 165	06/28/21 22:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	5.1	J

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107127-02			RQ2107127-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	47.9	80.0	60	52.5	80.0	66	10-127	10	30
1,2-Dichlorobenzene	8270D	49.5	80.0	62	57.2	80.0	71	23-130	14	30
1,3-Dichlorobenzene	8270D	47.5	80.0	59	57.3	80.0	72	21-90	20	30
1,4-Dichlorobenzene	8270D	47.6	80.0	60	56.1	80.0	70	10-124	15	30
2,4,5-Trichlorophenol	8270D	50.6	80.0	63	70.1	80.0	88	48-134	33*	30
2,4,6-Trichlorophenol	8270D	52.8	80.0	66	70.2	80.0	88	44-135	29	30
2,4-Dichlorophenol	8270D	51.8	80.0	65	61.0	80.0	76	48-127	16	30
2,4-Dimethylphenol	8270D	51.1	80.0	64	63.5	80.0	79	35-99	21	30
2,4-Dinitrophenol	8270D	55.4	80.0	69	82.8	80.0	103	21-154	40*	30
2,4-Dinitrotoluene	8270D	60.2	80.0	75	80.9	80.0	101	54-130	30	30
2,6-Dinitrotoluene	8270D	70.8	80.0	89	88.3	80.0	110	51-127	21	30
2-Chloronaphthalene	8270D	49.8	80.0	62	67.8	80.0	85	40-108	31*	30
2-Chlorophenol	8270D	49.4	80.0	62	57.9	80.0	72	42-112	15	30
2-Methylnaphthalene	8270D	49.8	80.0	62	61.3	80.0	77	34-102	22	30
2-Methylphenol	8270D	49.9	80.0	62	59.5	80.0	74	47-100	18	30
2-Nitroaniline	8270D	64.4	80.0	81	85.4	80.0	107	52-133	28	30
2-Nitrophenol	8270D	55.3	80.0	69	63.8	80.0	80	43-131	15	30
3,3'-Dichlorobenzidine	8270D	67.7	80.0	85	84.6	80.0	106	43-126	22	30
3- and 4-Methylphenol Coelution	8270D	49.5	80.0	62	58.9	80.0	74	40-92	18	30
3-Nitroaniline	8270D	62.4	80.0	78	71.3	80.0	89	42-111	13	30
4,6-Dinitro-2-methylphenol	8270D	72.2	80.0	90	93.9	80.0	117	36-152	26	30
4-Bromophenyl Phenyl Ether	8270D	67.0	80.0	84	79.8	80.0	100	48-114	17	30
4-Chloro-3-methylphenol	8270D	53.6	80.0	67	67.8	80.0	85	52-113	24	30
4-Chloroaniline	8270D	56.1	80.0	70	65.6	80.0	82	44-109	16	30
4-Chlorophenyl Phenyl Ether	8270D	56.9	80.0	71	73.8	80.0	92	51-107	26	30
4-Nitroaniline	8270D	56.3	80.0	70	72.2	80.0	90	54-133	25	30
4-Nitrophenol	8270D	30.8 J	80.0	39	40.9 J	80.0	51	10-126	27	30
Acenaphthene	8270D	56.7	80.0	71	71.4	80.0	89	52-107	23	30
Acenaphthylene	8270D	60.0	80.0	75	75.9	80.0	95	55-109	24	30
Anthracene	8270D	65.2	80.0	82	82.1	80.0	103	55-116	23	30
Benz(a)anthracene	8270D	64.4	80.0	81	78.5	80.0	98	61-121	19	30
Benzo(a)pyrene	8270D	73.1	80.0	91	91.7	80.0	115 *	44-114	23	30
Benzo(b)fluoranthene	8270D	62.4	80.0	78	77.3	80.0	97	62-115	22	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107127-02			RQ2107127-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	75.0	80.0	94	90.8	80.0	114	63-136	19	30
Benzo(k)fluoranthene	8270D	68.0	80.0	85	83.7	80.0	105	49-133	21	30
Benzoic Acid	8270D	61.8	120	52	79.1	120	66	10-94	24	30
Benzyl Alcohol	8270D	56.4	80.0	70	70.5	80.0	88	31-109	23	30
2,2'-Oxybis(1-chloropropane)	8270D	54.5	80.0	68	68.1	80.0	85	32-122	22	30
Bis(2-chloroethoxy)methane	8270D	51.4	80.0	64	61.9	80.0	77	55-110	18	30
Bis(2-chloroethyl) Ether	8270D	50.3	80.0	63	58.1	80.0	73	46-102	15	30
Bis(2-ethylhexyl) Phthalate	8270D	69.2	80.0	86	85.6	80.0	107	51-132	22	30
Butyl Benzyl Phthalate	8270D	69.2	80.0	86	84.3	80.0	105	41-148	20	30
Chrysene	8270D	62.9	80.0	79	81.1	80.0	101	57-118	24	30
Di-n-butyl Phthalate	8270D	85.7	80.0	107	104	80.0	130 *	57-128	19	30
Di-n-octyl Phthalate	8270D	74.8	80.0	94	96.2	80.0	120	62-124	24	30
Dibenz(a,h)anthracene	8270D	71.2	80.0	89	86.7	80.0	108	54-135	19	30
Dibenzofuran	8270D	56.1	80.0	70	74.0	80.0	93	55-110	28	30
Diethyl Phthalate	8270D	54.4	80.0	68	69.2	80.0	87	53-113	25	30
Dimethyl Phthalate	8270D	63.7	80.0	80	78.4	80.0	98	51-112	20	30
Fluoranthene	8270D	78.2	80.0	98	89.9	80.0	112	66-127	13	30
Fluorene	8270D	60.6	80.0	76	77.0	80.0	96	54-106	23	30
Hexachlorobenzene	8270D	69.1	80.0	86	83.9	80.0	105	53-123	20	30
Hexachlorobutadiene	8270D	48.4	80.0	61	58.6	80.0	73	16-95	18	30
Hexachlorocyclopentadiene	8270D	26.2	80.0	33	36.2	80.0	45	10-99	31*	30
Hexachloroethane	8270D	49.6	80.0	62	55.2	80.0	69	15-92	11	30
Indeno(1,2,3-cd)pyrene	8270D	65.2	80.0	81	82.7	80.0	103	62-137	24	30
Isophorone	8270D	55.5	80.0	69	69.8	80.0	87	50-116	23	30
N-Nitrosodi-n-propylamine	8270D	54.7	80.0	68	67.7	80.0	85	49-115	22	30
N-Nitrosodiphenylamine	8270D	82.0	80.0	103	91.2	80.0	114	45-123	10	30
Naphthalene	8270D	50.2	80.0	63	58.2	80.0	73	38-99	15	30
Nitrobenzene	8270D	53.0	80.0	66	63.4	80.0	79	46-108	18	30
Pentachlorophenol (PCP)	8270D	79.3	80.0	99	106	80.0	132	29-164	29	30
Phenanthrene	8270D	62.2	80.0	78	78.3	80.0	98	58-118	23	30
Phenol	8270D	28.4	80.0	35	34.7	80.0	43	10-113	21	30
Pyrene	8270D	67.3	80.0	84	80.6	80.0	101	61-122	18	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107202-04			RQ2107202-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	46.4	80.0	58	46.1	80.0	58	10-127	<1	30
1,2-Dichlorobenzene	8270D	49.0	80.0	61	47.8	80.0	60	23-130	2	30
1,3-Dichlorobenzene	8270D	49.5	80.0	62	45.6	80.0	57	21-90	8	30
1,4-Dichlorobenzene	8270D	47.6	80.0	60	45.2	80.0	56	10-124	7	30
2,4,5-Trichlorophenol	8270D	55.4	80.0	69	54.3	80.0	68	48-134	1	30
2,4,6-Trichlorophenol	8270D	54.1	80.0	68	55.8	80.0	70	44-135	3	30
2,4-Dichlorophenol	8270D	54.1	80.0	68	53.1	80.0	66	48-127	3	30
2,4-Dimethylphenol	8270D	52.1	80.0	65	47.6	80.0	59	35-99	10	30
2,4-Dinitrophenol	8270D	60.5	80.0	76	62.1	80.0	78	21-154	3	30
2,4-Dinitrotoluene	8270D	65.8	80.0	82	68.1	80.0	85	54-130	4	30
2,6-Dinitrotoluene	8270D	71.5	80.0	89	70.3	80.0	88	51-127	1	30
2-Chloronaphthalene	8270D	52.3	80.0	65	53.6	80.0	67	40-108	3	30
2-Chlorophenol	8270D	48.8	80.0	61	47.2	80.0	59	42-112	3	30
2-Methylnaphthalene	8270D	52.8	80.0	66	52.2	80.0	65	34-102	2	30
2-Methylphenol	8270D	50.5	80.0	63	47.1	80.0	59	47-100	7	30
2-Nitroaniline	8270D	62.8	80.0	78	69.1	80.0	86	52-133	10	30
2-Nitrophenol	8270D	58.7	80.0	73	56.1	80.0	70	43-131	4	30
3,3'-Dichlorobenzidine	8270D	69.8	80.0	87	70.0	80.0	87	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	48.2	80.0	60	47.7	80.0	60	40-92	<1	30
3-Nitroaniline	8270D	58.7	80.0	73	60.4	80.0	75	42-111	3	30
4,6-Dinitro-2-methylphenol	8270D	70.3	80.0	88	70.7	80.0	88	36-152	<1	30
4-Bromophenyl Phenyl Ether	8270D	62.0	80.0	78	63.0	80.0	79	48-114	1	30
4-Chloro-3-methylphenol	8270D	56.3	80.0	70	56.2	80.0	70	52-113	<1	30
4-Chloroaniline	8270D	54.9	80.0	69	57.8	80.0	72	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	56.1	80.0	70	58.2	80.0	73	51-107	4	30
4-Nitroaniline	8270D	62.7	80.0	78	61.3	80.0	77	54-133	1	30
4-Nitrophenol	8270D	32.9 J	80.0	41	35.0 J	80.0	44	10-126	7	30
Acenaphthene	8270D	56.3	80.0	70	57.0	80.0	71	52-107	1	30
Acenaphthylene	8270D	61.2	80.0	76	61.9	80.0	77	55-109	1	30
Anthracene	8270D	64.2	80.0	80	64.9	80.0	81	55-116	1	30
Benz(a)anthracene	8270D	62.5	80.0	78	63.6	80.0	80	61-121	3	30
Benzo(a)pyrene	8270D	71.8	80.0	90	73.4	80.0	92	44-114	2	30
Benzo(b)fluoranthene	8270D	59.8	80.0	75	62.2	80.0	78	62-115	4	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107202-04			RQ2107202-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	70.9	80.0	89	75.8	80.0	95	63-136	7	30
Benzo(k)fluoranthene	8270D	63.7	80.0	80	66.9	80.0	84	49-133	5	30
Benzoic Acid	8270D	73.2	120	61	68.8	120	57	10-94	7	30
Benzyl Alcohol	8270D	55.3	80.0	69	57.7	80.0	72	31-109	4	30
2,2'-Oxybis(1-chloropropane)	8270D	52.9	80.0	66	54.9	80.0	69	32-122	4	30
Bis(2-chloroethoxy)methane	8270D	55.8	80.0	70	54.4	80.0	68	55-110	3	30
Bis(2-chloroethyl) Ether	8270D	50.9	80.0	64	49.9	80.0	62	46-102	3	30
Bis(2-ethylhexyl) Phthalate	8270D	75.6	80.0	94	74.8	80.0	94	51-132	<1	30
Butyl Benzyl Phthalate	8270D	69.2	80.0	86	70.6	80.0	88	41-148	2	30
Chrysene	8270D	62.5	80.0	78	63.0	80.0	79	57-118	1	30
Di-n-butyl Phthalate	8270D	80.6	80.0	101	79.9	80.0	100	57-128	<1	30
Di-n-octyl Phthalate	8270D	74.0	80.0	93	75.0	80.0	94	62-124	1	30
Dibenz(a,h)anthracene	8270D	66.8	80.0	84	69.5	80.0	87	54-135	4	30
Dibenzofuran	8270D	58.4	80.0	73	58.8	80.0	74	55-110	1	30
Diethyl Phthalate	8270D	55.8	80.0	70	58.2	80.0	73	53-113	4	30
Dimethyl Phthalate	8270D	62.3	80.0	78	62.9	80.0	79	51-112	1	30
Fluoranthene	8270D	69.6	80.0	87	71.7	80.0	90	66-127	3	30
Fluorene	8270D	60.3	80.0	75	60.2	80.0	75	54-106	<1	30
Hexachlorobenzene	8270D	57.4	80.0	72	62.9	80.0	79	53-123	9	30
Hexachlorobutadiene	8270D	48.3	80.0	60	49.3	80.0	62	16-95	3	30
Hexachlorocyclopentadiene	8270D	21.2	80.0	26	22.5	80.0	28	10-99	7	30
Hexachloroethane	8270D	48.4	80.0	61	47.2	80.0	59	15-92	3	30
Indeno(1,2,3-cd)pyrene	8270D	64.6	80.0	81	69.5	80.0	87	62-137	7	30
Isophorone	8270D	55.9	80.0	70	57.1	80.0	71	50-116	1	30
N-Nitrosodi-n-propylamine	8270D	54.6	80.0	68	56.1	80.0	70	49-115	3	30
N-Nitrosodiphenylamine	8270D	72.8	80.0	91	73.2	80.0	92	45-123	1	30
Naphthalene	8270D	51.9	80.0	65	50.4	80.0	63	38-99	3	30
Nitrobenzene	8270D	54.5	80.0	68	55.5	80.0	69	46-108	1	30
Pentachlorophenol (PCP)	8270D	69.2	80.0	87	72.9	80.0	91	29-164	4	30
Phenanthrene	8270D	61.9	80.0	77	61.8	80.0	77	58-118	<1	30
Phenol	8270D	27.1	80.0	34	28.2	80.0	35	10-113	3	30
Pyrene	8270D	66.6	80.0	83	66.7	80.0	83	61-122	<1	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-061621-SG-032	R2106072-001	51	56
WG-9954-061621-SG-033	R2106072-003	56	49
WG-9954-061621-SG-034	R2106072-004	53	55
WG-9954-061621-SG-035	R2106072-005	34	52
Method Blank	RQ2107126-05	45	31
Method Blank	RQ2107126-05	49	33
Lab Control Sample	RQ2107126-06	61	45
Lab Control Sample	RQ2107126-06	65	46
Duplicate Lab Control Sample	RQ2107126-07	53	42
Duplicate Lab Control Sample	RQ2107126-07	58	44
WG-9954-061621-SG-033 MS	RQ2107126-01	56	59
WG-9954-061621-SG-033 DMS	RQ2107126-02	43	55

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21
Sample Matrix:	Water	**Date Received:**	06/17/21
		Date Analyzed:	06/30/21
		Date Extracted:	06/22/21

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**Basis:**	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2107126-01			**Duplicate Matrix Spike** RQ2107126-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.045 U	0.258	0.364	71	0.208	0.364	57	38-157	21	30
4,4'-DDE	0.045 U	0.248	0.364	68	0.201	0.364	55	10-200	21	30
4,4'-DDT	0.045 U	0.267	0.364	73	0.215	0.364	59	19-154	21	30
Aldrin	0.045 U	0.203	0.364	56	0.200	0.364	55	26-149	1	30
Dieldrin	0.045 U	0.272	0.364	75	0.226	0.364	62	41-164	19	30
Endosulfan I	0.045 U	0.268	0.364	74	0.224	0.364	62	47-149	18	30
Endosulfan II	0.045 U	0.274	0.364	75	0.229	0.364	63	51-148	18	30
Endosulfan Sulfate	0.045 U	0.278	0.364	76	0.227	0.364	62	10-170	20	30
Endrin	0.045 U	0.296	0.364	81	0.241	0.364	66	48-165	20	30
Endrin Ketone	0.045 U	0.287	0.364	79	0.268	0.364	74	48-162	7	30
Heptachlor	0.045 U	0.233	0.364	64	0.215	0.364	59	29-168	8	30
Heptachlor Epoxide	0.045 U	0.280	0.364	77	0.231	0.364	64	29-180	19	30
Methoxychlor	0.045 U	0.274	0.364	75	0.217	0.364	60	38-162	23	30
alpha-BHC	0.025 J	0.341	0.364	87	0.273	0.364	68	27-154	22	30
alpha-Chlordane	0.045 U	0.262	0.364	72	0.217	0.364	60	35-160	19	30
beta-BHC	0.045 U	0.345	0.364	95	0.358	0.364	99	32-184	4	30
delta-BHC	0.051	0.387	0.364	92	0.416	0.364	100	10-182	7	30
gamma-BHC (Lindane)	0.033 J	0.381	0.364	96	0.336	0.364	83	43-164	13	30
gamma-Chlordane	0.045 U	0.258	0.364	71	0.226	0.364	62	35-165	13	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/29/21 19:44	6/22/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Aldrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Dieldrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Heptachlor	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 19:44	6/22/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
beta-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
delta-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	45	10 - 164	06/29/21 19:44	
Tetrachloro-m-xylene	31	10 - 147	06/29/21 19:44	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/30/21 17:56	6/22/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Aldrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Dieldrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Heptachlor	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 17:56	6/22/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
beta-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
delta-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 164	06/30/21 17:56	
Tetrachloro-m-xylene	33	10 - 147	06/30/21 17:56	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/29/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107126-06			RQ2107126-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.264	0.400	66	0.227	0.400	57	42-159	15	30
4,4'-DDE	8081B	0.257	0.400	64	0.225	0.400	56	47-147	13	30
4,4'-DDT	8081B	0.291	0.400	73	0.247	0.400	62	41-149	16	30
Aldrin	8081B	0.189	0.400	47	0.171	0.400	43	22-137	10	30
Dieldrin	8081B	0.272	0.400	68	0.235	0.400	59	52-144	14	30
Endosulfan I	8081B	0.264	0.400	66	0.227	0.400	57	52-136	15	30
Endosulfan II	8081B	0.276	0.400	69	0.237	0.400	59	57-138	15	30
Endosulfan Sulfate	8081B	0.288	0.400	72	0.248	0.400	62	34-156	15	30
Endrin	8081B	0.290	0.400	72	0.250	0.400	63	56-143	15	30
Endrin Ketone	8081B	0.288	0.400	72	0.247	0.400	62	59-143	16	30
Heptachlor	8081B	0.223	0.400	56	0.208	0.400	52	32-141	7	30
Heptachlor Epoxide	8081B	0.271	0.400	68	0.236	0.400	59	51-143	14	30
Methoxychlor	8081B	0.310	0.400	78	0.266	0.400	66	56-149	16	30
alpha-BHC	8081B	0.257	0.400	64	0.224	0.400	56	36-151	14	30
alpha-Chlordane	8081B	0.262	0.400	65	0.228	0.400	57	50-139	14	30
beta-BHC	8081B	0.292	0.400	73	0.254	0.400	63	55-149	14	30
delta-BHC	8081B	0.277	0.400	69	0.237	0.400	59	29-159	16	30
gamma-BHC (Lindane)	8081B	0.266	0.400	67	0.230	0.400	58	41-149	15	30
gamma-Chlordane	8081B	0.248	0.400	62	0.222	0.400	55	50-140	11	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-061621-SG-032	R2106072-001	57	59
WG-9954-061621-SG-033	R2106072-003	55	49
WG-9954-061621-SG-034	R2106072-004	67	68
WG-9954-061621-SG-035	R2106072-005	42	62
Method Blank	RQ2107126-05	48	32
Lab Control Sample	RQ2107126-06	48	49
Duplicate Lab Control Sample	RQ2107126-07	58	48
WG-9954-061621-SG-033 MS	RQ2107126-03	62	63
WG-9954-061621-SG-033 DMS	RQ2107126-04	66	69

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/16/21
Sample Matrix:	Water	**Date Received:**	06/17/21
		Date Analyzed:	06/24/21
		Date Extracted:	06/22/21

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	WG-9954-061621-SG-033	**Units:**	ug/L
Lab Code:	R2106072-003	**Basis:**	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2107126-03			Duplicate Matrix Spike RQ2107126-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.91 U	2.54	3.64	70	2.91	3.64	80	32-142	13	30
Aroclor 1260	0.91 U	2.67	3.64	73	2.88	3.64	79	28-142	7	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.

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106072
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/24/21 14:51	6/22/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/24/21 14:51	6/22/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 152	06/24/21 14:51	
Tetrachloro-m-xylene	32	14 - 129	06/24/21 14:51	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106072
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2107126-06		RQ2107126-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.64	4.00	66	2.61	4.00	65	49-123	<1	30
Aroclor 1260	8082A	2.61	4.00	65	2.99	4.00	75	30-120	14	30

July 07, 2021 Service Request No:R2106122

Ms. Kathy Willy
GHD
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 18, 2021
For your reference, these analyses have been assigned our service request number **R2106122.**

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

ALS Environmental

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100 **Date Received:** 06/18/2021
Sample Matrix: Water

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:

Eleven water samples were received for analysis at ALS Environmental on 06/18/2021. 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, 06/28/2021: 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, 06/29/2021: 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, 06/29/2021: 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.

Semivoa GC:

Method 8081B, 06/25/2021: 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 8081B, 06/25/2021: 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, 06/28/2021: 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, 06/28/2021: 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, 06/30/2021: 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.

Approved by  Date 07/07/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-061721-SG-037			Lab ID: R2106122-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	4.0	J	0.78	10	ug/L	8260C
Acetone	19		5.0	10	ug/L	8260C
Carbon Disulfide	4.5	J	0.42	10	ug/L	8260C
Ethylbenzene	0.26	J	0.20	5.0	ug/L	8260C
Toluene	0.24	J	0.20	5.0	ug/L	8260C
alpha-BHC	0.082		0.020	0.045	ug/L	8081B
delta-BHC	0.065		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.078		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061721-SG-040			Lab ID: R2106122-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	2.3	J	0.78	10	ug/L	8260C
Carbon Disulfide	150		0.42	10	ug/L	8260C
Ethylbenzene	0.49	J	0.20	5.0	ug/L	8260C
Toluene	0.33	J	0.20	5.0	ug/L	8260C
Xylenes, Total	0.48	J	0.23	5.0	ug/L	8260C
cis-1,2-Dichloroethene	0.32	J	0.23	5.0	ug/L	8260C
alpha-BHC	0.43		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061721-SG-041			Lab ID: R2106122-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	1.6	J	0.78	10	ug/L	8260C
Carbon Disulfide	11		0.42	10	ug/L	8260C
alpha-BHC	0.17		0.020	0.045	ug/L	8081B
delta-BHC	0.14		0.020	0.045	ug/L	8081B
gamma-BHC (Lindane)	0.17		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061721-SG-039			Lab ID: R2106122-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	1.6	J	0.42	10	ug/L	8260C

CLIENT ID: WG-9954-061721-SG-036			Lab ID: R2106122-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	0.63	J	0.42	10	ug/L	8260C

CLIENT ID: TB-9954-061721-SG-007			Lab ID: R2106122-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chloromethane	0.30	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-061721-SG-038			Lab ID: R2106122-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	1.0	J	0.78	10	ug/L	8260C
Carbon Disulfide	3.2	J	0.42	10	ug/L	8260C
alpha-BHC	0.078		0.020	0.045	ug/L	8081B

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-061721-SG-038			Lab ID: R2106122-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
delta-BHC	0.28		0.020	0.045	ug/L	8081B

CLIENT ID: WG-9954-061721-SG-042			Lab ID: R2106122-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	2.0	J	0.42	10	ug/L	8260C

CLIENT ID: WG-9954-061721-SG-043			Lab ID: R2106122-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon Disulfide	2.1	J	0.42	10	ug/L	8260C

CLIENT ID: WG-9954-061721-SG-044			Lab ID: R2106122-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	0.96	J	0.78	10	ug/L	8260C
Chloromethane	0.36	J	0.28	5.0	ug/L	8260C

CLIENT ID: WG-9954-061721-SG-045			Lab ID: R2106122-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Bromomethane	0.88	J	0.70	5.0	ug/L	8260C
Chloromethane	0.34	J	0.28	5.0	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) **Service Request:**R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2106122-001	WG-9954-061721-SG-037	6/17/2021	0905
R2106122-002	WG-9954-061721-SG-040	6/17/2021	1100
R2106122-003	WG-9954-061721-SG-041	6/17/2021	1120
R2106122-004	WG-9954-061721-SG-039	6/17/2021	1045
R2106122-005	WG-9954-061721-SG-036	6/17/2021	0835
R2106122-006	TB-9954-061721-SG-007	6/17/2021	0830
R2106122-007	WG-9954-061721-SG-038	6/17/2021	1015
R2106122-008	WG-9954-061721-SG-042	6/17/2021	1255
R2106122-009	WG-9954-061721-SG-043	6/17/2021	1355
R2106122-010	WG-9954-061721-SG-044	6/17/2021	1435
R2106122-011	WG-9954-061721-SG-045	6/17/2021	1435

CHAIN OF CUSTODY RECORD

EVENT COMPLETE

COC Number:

ADDRESS: 2055 NIAGARA FALLS BLVD N. FALLS PAGE 1 OF 1

PHONE: FAX:

Project No/Phase/Task Code: 11225877-40-410	Laboratory Name: ALS - Rochester	Lab Location: 1565 Jefferson Road, Building 300, Suite 360	SSOW ID: 273-402-D02-3100
Project Name: Love Canal Annual GW Sampling 2021	Lab Contact: 585-288-5380 Brady Kalkman		Cooler No:
Project Location: NIAGARA FALLS, NY			Carrier: FED EX
GHD Chemistry Contact: Kathy Willy			Airbill No:
Sampler(s): David Tyran Shawn Gardner Shawn Gardner /D:			Total # of Containers: ~~170~~ 56 73

Item	Sample Identification (containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code	Grab (G) or Comp ©	Filtered (Y/N)	Analysis Requested: VOC	SVOC	PEST/PCB	Total Containers/sample	MS/MSD Request	Comments/ Special Instructions:
1	WG-9954-061721-SG-037	06/17/21	9:05	W	G	N	X	X	X	7		
2	WG-9954-061721-SG-040	06/17/21	11:00	W	G	N	X	X	X	7		
3	WG-9954-061721-SG-041	06/17/21	11:20	W	G	N	X	X	X	7		
4	WG-9954-061721-SG-039	06/17/21	10:45	W	G	N	X	X	X	7		
5	WG-9954-061721-SG-036	06/17/21	8:35	W	G	N	X	X	X	7		
6	TB-9954-061721-SG-007	06/17/21	8:30	W	G	N	X			3		
7	WG-9954-061721-SG-038	06/17/21	10:15	W	G	N	X	X	X	7		
8	WG-9954-061721-SG-042	06/17/21	12:55	W	G	N	X	X	X	7		
9	WG-9954-061721-SG-043	06/17/21	13:55	W	G	N	X	X	X	7		
10	WG-9954-061721-SG-044	06/17/21	14:35	W	G	N	X	X	X	7		
11	WG-9954-061721-SG-045	06/17/21	14:35	W	G	N	X	X	X	7		
12												
13												
14												
15												
16												
17												
18												

TAT Required in business days (use separate COCs fro different TATs)
(Standards include 1 day, 2 days, 3 days, 1 week, 2 weeks)

Notes/Special Requirements:

	Relinquished By:	Company	Date	Time	Received By:	Company	Date	Time
1	Shawn Gardner	GHD	6/17/21	1600	1	ALS	6-18-21	11:10
2					2			
3					3			

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GHD
Love Canal:282-402-D02-3100

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#_____

T030477

ALS Environmental

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

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

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

CLIENT SAMPLE ID	LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS	7D 8081B / Pest OC	8082A / PCB	8270D / SVO	14D 8260C / VOC FP	1	2	3	4	5	Remarks
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 Cilibration Summaries
_X_ 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

R2106122 5
GHD
Love Canal:292-402-D02-3100

Project/Client GHD Folder Number

Cooler received on 6-18-21 by: GL/ME

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

8. Temperature Readings Date: 6-18-21 Time: 11:05 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	1.3	0.5					
Within 0-6°C?	Y 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 GL on 6-18-21 at 11:08
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/21/21 Time: 1455 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 N/A
13.	Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N	Canisters Pressurized	Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		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: 25946, 90121-d6

Explain all Discrepancies/ Other Comments:

* 2 of 3 vials for the 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

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106122-001.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-001.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1545	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
		6/30/2021	1201	In Lab / FNAEGLER	
		6/30/2021	1204	R-001-S10 / FNAEGLER	
R2106122-001.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-001.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-001.05					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-001.06					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-001.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106122-002.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-002.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1545	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-002.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-002.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-002.05					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-002.06					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-002.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/22/2021	0817	In Lab / VSTAUFFER	
R2106122-003.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-003.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1545	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-003.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106122-003.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-003.05					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-003.06					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-003.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-004.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-004.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1545	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-004.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-004.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-004.05					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8270D				
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-004.06					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-004.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-005.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-005.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1545	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-005.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-005.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-005.05					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/24/2021	0825	In Lab / VSTAUFFER	
R2106122-005.06					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-005.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8082A				
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-006.01					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1544	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-006.02					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-006.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-007.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-007.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1544	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-007.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-007.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-007.05					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/24/2021	0825	In Lab / VSTAUFFER	

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106122-007.06					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
		6/23/2021	1810	R-002 / VSTAUFFER	
R2106122-007.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
		6/23/2021	1810	R-002 / VSTAUFFER	
R2106122-008.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-008.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1544	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-008.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-008.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-008.05					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-008.06					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-008.07					

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/24/2021	0825	In Lab / VSTAUFFER	
R2106122-009.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-009.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1544	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-009.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-009.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-009.05					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/24/2021	0825	In Lab / VSTAUFFER	
R2106122-009.06					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-009.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-010.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2106122-010.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1544	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-010.03					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-010.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-010.05					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-010.06					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/24/2021	0825	In Lab / VSTAUFFER	
R2106122-010.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-011.01					
	8081B				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/23/2021	0839	In Lab / VSTAUFFER	
R2106122-011.02					
	8260C				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
		6/28/2021	1544	In Lab / BALLGEIER	
		6/28/2021	1732	R-001-S06 / BALLGEIER	
R2106122-011.03					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: GHD **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-011.04					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-001 / DWARD	
R2106122-011.05					
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
R2106122-011.06					
	8270D				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	
		6/24/2021	0825	In Lab / VSTAUFFER	
R2106122-011.07					
	8082A				
		6/21/2021	1452	SMO / DWARD	
		6/21/2021	1458	R-002 / DWARD	

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.

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/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

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.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

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 Certifications[1]

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 laboratoryôs 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.

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061721-SG-037	**Date Collected:**	06/17/21
Lab Code:	R2106122-001	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-040	**Date Collected:**	06/17/21
Lab Code:	R2106122-002	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-041	**Date Collected:**	06/17/21
Lab Code:	R2106122-003	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	BALLGEIER
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-039	**Date Collected:**	06/17/21
Lab Code:	R2106122-004	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061721-SG-039	**Date Collected:**	06/17/21
Lab Code:	R2106122-004	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-036	**Date Collected:**	06/17/21
Lab Code:	R2106122-005	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	TB-9954-061721-SG-007	**Date Collected:**	06/17/21
Lab Code:	R2106122-006	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		BALLGEIER

Sample Name:	WG-9954-061721-SG-038	**Date Collected:**	06/17/21
Lab Code:	R2106122-007	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061721-SG-042	**Date Collected:**	06/17/21
Lab Code:	R2106122-008	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-043	**Date Collected:**	06/17/21
Lab Code:	R2106122-009	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-044	**Date Collected:**	06/17/21
Lab Code:	R2106122-010	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

Sample Name:	WG-9954-061721-SG-045	**Date Collected:**	06/17/21
Lab Code:	R2106122-011	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	AFELSER

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring		

Sample Name:	WG-9954-061721-SG-045	**Date Collected:**	06/17/21
Lab Code:	R2106122-011	**Date Received:**	06/18/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8082A	KSERCU	JMISIUREWICZ
8260C		BALLGEIER
8270D	KSERCU	JMISIUREWICZ

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
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www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	06/30/21 14:12	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/21 14:12	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/21 14:12	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/21 14:12	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/21 14:12	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/21 14:12	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/21 14:12	
2-Butanone (MEK)	**4.0 J**	10	0.78	1	06/30/21 14:12	
2-Hexanone	10 U	10	0.20	1	06/30/21 14:12	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/21 14:12	
Acetone	**19**	10	5.0	1	06/30/21 14:12	
Benzene	5.0 U	5.0	0.20	1	06/30/21 14:12	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/21 14:12	
Bromoform	5.0 U	5.0	0.25	1	06/30/21 14:12	
Bromomethane	5.0 U	5.0	0.70	1	06/30/21 14:12	
Carbon Disulfide	**4.5 J**	10	0.42	1	06/30/21 14:12	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/21 14:12	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/21 14:12	
Chloroethane	5.0 U	5.0	0.23	1	06/30/21 14:12	
Chloroform	5.0 U	5.0	0.24	1	06/30/21 14:12	
Chloromethane	5.0 U	5.0	0.28	1	06/30/21 14:12	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/21 14:12	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/21 14:12	
Ethylbenzene	**0.26 J**	5.0	0.20	1	06/30/21 14:12	
Styrene	5.0 U	5.0	0.20	1	06/30/21 14:12	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/21 14:12	
Toluene	**0.24 J**	5.0	0.20	1	06/30/21 14:12	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/21 14:12	
Vinyl Acetate	10 U	10	1.1	1	06/30/21 14:12	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/21 14:12	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/21 14:12	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/21 14:12	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/21 14:12	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/21 14:12	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/21 14:12	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	06/30/21 14:12	
Dibromofluoromethane	96	80 - 116	06/30/21 14:12	
Toluene-d8	100	87 - 121	06/30/21 14:12	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	1.14	7.5	J
007446-09-5	Sulfur dioxide	1.23	280.4	JN
	unknown	1.25	17.8	J
	unknown	1.36	9.6	J
	unknown	1.53	16.6	J
000075-18-3	Dimethyl sulfide	2.38	187.1	JN
000624-89-5	Ethane, (methylthio)-	4.25	15.5	JN
	unknown	8.07	11.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:00
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-040	**Units:**	ug/L
Lab Code:	R2106122-002	**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	06/28/21 17:16	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 17:16	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 17:16	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 17:16	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 17:16	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 17:16	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 17:16	
2-Butanone (MEK)	**2.3 J**	10	0.78	1	06/28/21 17:16	
2-Hexanone	10 U	10	0.20	1	06/28/21 17:16	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 17:16	
Acetone	10 U	10	5.0	1	06/28/21 17:16	
Benzene	5.0 U	5.0	0.20	1	06/28/21 17:16	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 17:16	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 17:16	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 17:16	
Carbon Disulfide	**150**	10	0.42	1	06/28/21 17:16	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 17:16	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 17:16	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 17:16	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 17:16	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 17:16	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 17:16	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 17:16	
Ethylbenzene	**0.49 J**	5.0	0.20	1	06/28/21 17:16	
Styrene	5.0 U	5.0	0.20	1	06/28/21 17:16	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 17:16	
Toluene	**0.33 J**	5.0	0.20	1	06/28/21 17:16	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 17:16	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 17:16	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 17:16	
Xylenes, Total	**0.48 J**	5.0	0.23	1	06/28/21 17:16	
cis-1,2-Dichloroethene	**0.32 J**	5.0	0.23	1	06/28/21 17:16	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 17:16	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 17:16	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 17:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/28/21 17:16	
Dibromofluoromethane	104	80 - 116	06/28/21 17:16	
Toluene-d8	102	87 - 121	06/28/21 17:16	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:00
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-040	**Units:**	ug/L
Lab Code:	R2106122-002	**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	1.18	7.2	J
	unknown	1.30	19.3	J
	unknown	1.40	25.5	J
	unknown	1.52	18.5	J
000074-93-1	Methanethiol	1.57	113.1	JN
003658-80-8	Trisulfide, dimethyl	11.91	8.1	JN
000075-18-3	Dimethyl sulfide	2.40	587.8	JN
000624-89-5	Ethane, (methylthio)-	4.22	54.8	JN
001551-21-9	Propane, 2-(methylthio)-	6.10	5.3	JN
000624-92-0	Disulfide, dimethyl	8.15	40.8	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	06/28/21 17:39	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 17:39	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 17:39	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 17:39	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 17:39	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 17:39	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 17:39	
2-Butanone (MEK)	**1.6 J**	10	0.78	1	06/28/21 17:39	
2-Hexanone	10 U	10	0.20	1	06/28/21 17:39	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 17:39	
Acetone	10 U	10	5.0	1	06/28/21 17:39	
Benzene	5.0 U	5.0	0.20	1	06/28/21 17:39	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 17:39	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 17:39	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 17:39	
Carbon Disulfide	**11**	10	0.42	1	06/28/21 17:39	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 17:39	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 17:39	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 17:39	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 17:39	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 17:39	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 17:39	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 17:39	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 17:39	
Styrene	5.0 U	5.0	0.20	1	06/28/21 17:39	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 17:39	
Toluene	5.0 U	5.0	0.20	1	06/28/21 17:39	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 17:39	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 17:39	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 17:39	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 17:39	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 17:39	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 17:39	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 17:39	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 17:39	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	06/28/21 17:39	
Dibromofluoromethane	105	80 - 116	06/28/21 17:39	
Toluene-d8	101	87 - 121	06/28/21 17:39	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	1.27	15.8	J
007446-09-5	Sulfur dioxide	1.48	183.6	JN
	unknown	1.52	82.6	J
001825-61-2	Silane, methoxytrimethyl-	2.90	6.6	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	06/28/21 18:01	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 18:01	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 18:01	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 18:01	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 18:01	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 18:01	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 18:01	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 18:01	
2-Hexanone	10 U	10	0.20	1	06/28/21 18:01	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 18:01	
Acetone	10 U	10	5.0	1	06/28/21 18:01	
Benzene	5.0 U	5.0	0.20	1	06/28/21 18:01	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 18:01	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 18:01	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 18:01	
Carbon Disulfide	**1.6 J**	10	0.42	1	06/28/21 18:01	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 18:01	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 18:01	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 18:01	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 18:01	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 18:01	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 18:01	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 18:01	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 18:01	
Styrene	5.0 U	5.0	0.20	1	06/28/21 18:01	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 18:01	
Toluene	5.0 U	5.0	0.20	1	06/28/21 18:01	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 18:01	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 18:01	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 18:01	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 18:01	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 18:01	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 18:01	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 18:01	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 18:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	06/28/21 18:01	
Dibromofluoromethane	104	80 - 116	06/28/21 18:01	
Toluene-d8	103	87 - 121	06/28/21 18:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	1.27	18.5	J
007446-09-5	Sulfur dioxide	1.65	8.2	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	06/28/21 18:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 18:23	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 18:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 18:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 18:23	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 18:23	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 18:23	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 18:23	
2-Hexanone	10 U	10	0.20	1	06/28/21 18:23	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 18:23	
Acetone	10 U	10	5.0	1	06/28/21 18:23	
Benzene	5.0 U	5.0	0.20	1	06/28/21 18:23	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 18:23	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 18:23	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 18:23	
Carbon Disulfide	**0.63 J**	10	0.42	1	06/28/21 18:23	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 18:23	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 18:23	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 18:23	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 18:23	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 18:23	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 18:23	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 18:23	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 18:23	
Styrene	5.0 U	5.0	0.20	1	06/28/21 18:23	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 18:23	
Toluene	5.0 U	5.0	0.20	1	06/28/21 18:23	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 18:23	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 18:23	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 18:23	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 18:23	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 18:23	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 18:23	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 18:23	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 18:23	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	06/28/21 18:23	
Dibromofluoromethane	104	80 - 116	06/28/21 18:23	
Toluene-d8	102	87 - 121	06/28/21 18:23	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	1.27	12.4	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:30
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	TB-9954-061721-SG-007	**Units:**	ug/L
Lab Code:	R2106122-006	**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	06/28/21 18:45	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 18:45	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 18:45	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 18:45	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 18:45	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 18:45	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 18:45	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 18:45	
2-Hexanone	10 U	10	0.20	1	06/28/21 18:45	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 18:45	
Acetone	10 U	10	5.0	1	06/28/21 18:45	
Benzene	5.0 U	5.0	0.20	1	06/28/21 18:45	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 18:45	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 18:45	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 18:45	
Carbon Disulfide	10 U	10	0.42	1	06/28/21 18:45	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 18:45	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 18:45	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 18:45	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 18:45	
Chloromethane	**0.30 J**	5.0	0.28	1	06/28/21 18:45	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 18:45	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 18:45	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 18:45	
Styrene	5.0 U	5.0	0.20	1	06/28/21 18:45	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 18:45	
Toluene	5.0 U	5.0	0.20	1	06/28/21 18:45	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 18:45	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 18:45	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 18:45	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 18:45	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 18:45	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 18:45	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 18:45	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 18:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:30
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	TB-9954-061721-SG-007	**Units:**	ug/L
Lab Code:	R2106122-006	**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	06/28/21 18:45	
Dibromofluoromethane	105	80 - 116	06/28/21 18:45	
Toluene-d8	103	87 - 121	06/28/21 18:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:30
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	TB-9954-061721-SG-007	**Units:**	ug/L
Lab Code:	R2106122-006	**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	1.27	7.6	JN
001825-61-2	Silane, methoxytrimethyl-	2.90	21.1	JN
001066-40-6	Silanol, trimethyl-	4.39	6.9	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	06/28/21 19:07	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 19:07	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 19:07	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 19:07	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 19:07	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 19:07	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 19:07	
2-Butanone (MEK)	**1.0 J**	10	0.78	1	06/28/21 19:07	
2-Hexanone	10 U	10	0.20	1	06/28/21 19:07	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 19:07	
Acetone	10 U	10	5.0	1	06/28/21 19:07	
Benzene	5.0 U	5.0	0.20	1	06/28/21 19:07	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 19:07	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 19:07	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 19:07	
Carbon Disulfide	**3.2 J**	10	0.42	1	06/28/21 19:07	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 19:07	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 19:07	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 19:07	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 19:07	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 19:07	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 19:07	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 19:07	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 19:07	
Styrene	5.0 U	5.0	0.20	1	06/28/21 19:07	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 19:07	
Toluene	5.0 U	5.0	0.20	1	06/28/21 19:07	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 19:07	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 19:07	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 19:07	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 19:07	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 19:07	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 19:07	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 19:07	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 19:07	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	06/28/21 19:07	
Dibromofluoromethane	105	80 - 116	06/28/21 19:07	
Toluene-d8	103	87 - 121	06/28/21 19:07	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	1.28	27.1	J
007446-09-5	Sulfur dioxide	1.65	66.0	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	06/28/21 19:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 19:30	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 19:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 19:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 19:30	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 19:30	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 19:30	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 19:30	
2-Hexanone	10 U	10	0.20	1	06/28/21 19:30	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 19:30	
Acetone	10 U	10	5.0	1	06/28/21 19:30	
Benzene	5.0 U	5.0	0.20	1	06/28/21 19:30	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 19:30	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 19:30	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 19:30	
Carbon Disulfide	**2.0 J**	10	0.42	1	06/28/21 19:30	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 19:30	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 19:30	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 19:30	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 19:30	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 19:30	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 19:30	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 19:30	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 19:30	
Styrene	5.0 U	5.0	0.20	1	06/28/21 19:30	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 19:30	
Toluene	5.0 U	5.0	0.20	1	06/28/21 19:30	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 19:30	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 19:30	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 19:30	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 19:30	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 19:30	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 19:30	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 19:30	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 19:30	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	06/28/21 19:30	
Dibromofluoromethane	104	80 - 116	06/28/21 19:30	
Toluene-d8	102	87 - 121	06/28/21 19:30	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	1.27	46.2	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	06/28/21 19:52	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 19:52	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 19:52	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 19:52	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 19:52	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 19:52	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 19:52	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 19:52	
2-Hexanone	10 U	10	0.20	1	06/28/21 19:52	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 19:52	
Acetone	10 U	10	5.0	1	06/28/21 19:52	
Benzene	5.0 U	5.0	0.20	1	06/28/21 19:52	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 19:52	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 19:52	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 19:52	
Carbon Disulfide	**2.1 J**	10	0.42	1	06/28/21 19:52	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 19:52	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 19:52	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 19:52	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 19:52	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 19:52	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 19:52	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 19:52	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 19:52	
Styrene	5.0 U	5.0	0.20	1	06/28/21 19:52	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 19:52	
Toluene	5.0 U	5.0	0.20	1	06/28/21 19:52	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 19:52	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 19:52	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 19:52	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 19:52	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 19:52	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 19:52	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 19:52	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 19:52	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	06/28/21 19:52	
Dibromofluoromethane	103	80 - 116	06/28/21 19:52	
Toluene-d8	102	87 - 121	06/28/21 19:52	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	46.4	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	06/28/21 20:14	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 20:14	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 20:14	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 20:14	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 20:14	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 20:14	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 20:14	
2-Butanone (MEK)	**0.96 J**	10	0.78	1	06/28/21 20:14	
2-Hexanone	10 U	10	0.20	1	06/28/21 20:14	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 20:14	
Acetone	10 U	10	5.0	1	06/28/21 20:14	
Benzene	5.0 U	5.0	0.20	1	06/28/21 20:14	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 20:14	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 20:14	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 20:14	
Carbon Disulfide	10 U	10	0.42	1	06/28/21 20:14	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 20:14	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 20:14	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 20:14	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 20:14	
Chloromethane	**0.36 J**	5.0	0.28	1	06/28/21 20:14	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 20:14	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 20:14	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 20:14	
Styrene	5.0 U	5.0	0.20	1	06/28/21 20:14	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 20:14	
Toluene	5.0 U	5.0	0.20	1	06/28/21 20:14	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 20:14	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 20:14	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 20:14	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 20:14	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 20:14	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 20:14	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 20:14	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 20:14	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	06/28/21 20:14	
Dibromofluoromethane	103	80 - 116	06/28/21 20:14	
Toluene-d8	101	87 - 121	06/28/21 20:14	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	1.27	23.8	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	06/28/21 20:36	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 20:36	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 20:36	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 20:36	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 20:36	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 20:36	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 20:36	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 20:36	
2-Hexanone	10 U	10	0.20	1	06/28/21 20:36	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 20:36	
Acetone	10 U	10	5.0	1	06/28/21 20:36	
Benzene	5.0 U	5.0	0.20	1	06/28/21 20:36	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 20:36	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 20:36	
Bromomethane	**0.88 J**	5.0	0.70	1	06/28/21 20:36	
Carbon Disulfide	10 U	10	0.42	1	06/28/21 20:36	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 20:36	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 20:36	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 20:36	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 20:36	
Chloromethane	**0.34 J**	5.0	0.28	1	06/28/21 20:36	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 20:36	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 20:36	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 20:36	
Styrene	5.0 U	5.0	0.20	1	06/28/21 20:36	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 20:36	
Toluene	5.0 U	5.0	0.20	1	06/28/21 20:36	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 20:36	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 20:36	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 20:36	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 20:36	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 20:36	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 20:36	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 20:36	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 20:36	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	06/28/21 20:36	
Dibromofluoromethane	103	80 - 116	06/28/21 20:36	
Toluene-d8	100	87 - 121	06/28/21 20:36	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	1.27	15.4	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
www.alsglobal.com

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	1.2	1	06/29/21 02:50	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 02:50	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 02:50	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 02:50	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 02:50	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 02:50	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 02:50	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 02:50	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 02:50	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 02:50	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 02:50	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 02:50	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 02:50	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 02:50	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 02:50	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 02:50	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	1.7	1	06/29/21 02:50	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 02:50	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 02:50	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 02:50	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 02:50	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 02:50	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 02:50	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 02:50	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 02:50	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 02:50	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 02:50	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 02:50	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 02:50	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 02:50	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 02:50	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 02:50	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	06/29/21 02:50	
2-Fluorobiphenyl	66	31 - 118	06/29/21 02:50	
2-Fluorophenol	54	10 - 105	06/29/21 02:50	
Nitrobenzene-d5	70	31 - 110	06/29/21 02:50	
Phenol-d6	39	10 - 107	06/29/21 02:50	
p-Terphenyl-d14	43	10 - 165	06/29/21 02:50	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	11.43	4.7	J
000624-92-0	Disulfide, dimethyl	2.80	18	JN
	unknown	2.93	3.7	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:00
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-040	**Units:**	ug/L
Lab Code:	R2106122-002	**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	1.2	1	06/29/21 03:20	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 03:20	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 03:20	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 03:20	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 03:20	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 03:20	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 03:20	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 03:20	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 03:20	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 03:20	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 03:20	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 03:20	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 03:20	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 03:20	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 03:20	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 03:20	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:00
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-040	**Units:**	ug/L
Lab Code:	R2106122-002	**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	1.7	1	06/29/21 03:20	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 03:20	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 03:20	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 03:20	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 03:20	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 03:20	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 03:20	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 03:20	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 03:20	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 03:20	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 03:20	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 03:20	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 03:20	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 03:20	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 03:20	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 03:20	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	06/29/21 03:20	
2-Fluorobiphenyl	60	31 - 118	06/29/21 03:20	
2-Fluorophenol	53	10 - 105	06/29/21 03:20	
Nitrobenzene-d5	65	31 - 110	06/29/21 03:20	
Phenol-d6	50	10 - 107	06/29/21 03:20	
p-Terphenyl-d14	52	10 - 165	06/29/21 03:20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	10.47	5.3	J
	unknown	11.43	12	J
	unknown	13.97	15	J
	unknown	14.53	6.0	J
000624-92-0	Disulfide, dimethyl	2.81	31	JN
	unknown	4.07	8.4	J
	unknown	6.20	160	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	1.2	1	06/29/21 03:50	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 03:50	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 03:50	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 03:50	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 03:50	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 03:50	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 03:50	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 03:50	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 03:50	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 03:50	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 03:50	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 03:50	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 03:50	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 03:50	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 03:50	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 03:50	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	1.7	1	06/29/21 03:50	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 03:50	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 03:50	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 03:50	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 03:50	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 03:50	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 03:50	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 03:50	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 03:50	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 03:50	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 03:50	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 03:50	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 03:50	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 03:50	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 03:50	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 03:50	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	06/29/21 03:50	
2-Fluorobiphenyl	65	31 - 118	06/29/21 03:50	
2-Fluorophenol	47	10 - 105	06/29/21 03:50	
Nitrobenzene-d5	67	31 - 110	06/29/21 03:50	
Phenol-d6	31	10 - 107	06/29/21 03:50	
p-Terphenyl-d14	58	10 - 165	06/29/21 03:50	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	10.48	7.2	J
	unknown	11.43	20	J
	unknown	12.94	9.1	J
	unknown hydrocarbon	13.64	7.9	J
	unknown hydrocarbon	14.38	6.7	J
	unknown	15.17	5.8	J
	unknown	8.62	3.9	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	1.2	1	06/29/21 04:19	6/23/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
2,4-Dinitrophenol	45 U	45	20	1	06/29/21 04:19	6/23/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/29/21 04:19	6/23/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/29/21 04:19	6/23/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/29/21 04:19	6/23/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/29/21 04:19	6/23/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/29/21 04:19	6/23/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/29/21 04:19	6/23/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/29/21 04:19	6/23/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
4-Nitrophenol	45 U	45	6.4	1	06/29/21 04:19	6/23/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
Anthracene	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/29/21 04:19	6/23/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/29/21 04:19	6/23/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
Benzoic Acid	45 U	45	36	1	06/29/21 04:19	6/23/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/29/21 04:19	6/23/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/29/21 04:19	6/23/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/29/21 04:19	6/23/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
Chrysene	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	1.7	1	06/29/21 04:19	6/23/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/29/21 04:19	6/23/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/29/21 04:19	6/23/21	
Fluorene	9.1 U	9.1	1.3	1	06/29/21 04:19	6/23/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/29/21 04:19	6/23/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/29/21 04:19	6/23/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/29/21 04:19	6/23/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/29/21 04:19	6/23/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/29/21 04:19	6/23/21	
Isophorone	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/29/21 04:19	6/23/21	
Naphthalene	9.1 U	9.1	1.2	1	06/29/21 04:19	6/23/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/29/21 04:19	6/23/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/29/21 04:19	6/23/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/29/21 04:19	6/23/21	
Phenol	9.1 U	9.1	1.0	1	06/29/21 04:19	6/23/21	
Pyrene	9.1 U	9.1	1.5	1	06/29/21 04:19	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	71	35 - 141	06/29/21 04:19	
2-Fluorobiphenyl	73	31 - 118	06/29/21 04:19	
2-Fluorophenol	51	10 - 105	06/29/21 04:19	
Nitrobenzene-d5	75	31 - 110	06/29/21 04:19	
Phenol-d6	33	10 - 107	06/29/21 04:19	
p-Terphenyl-d14	65	10 - 165	06/29/21 04:19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	4.3	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	1.2	1	06/28/21 14:26	6/24/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
2,4-Dinitrophenol	45 U	45	20	1	06/28/21 14:26	6/24/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/28/21 14:26	6/24/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/28/21 14:26	6/24/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/28/21 14:26	6/24/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/28/21 14:26	6/24/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/28/21 14:26	6/24/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/28/21 14:26	6/24/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/28/21 14:26	6/24/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
4-Nitrophenol	45 U	45	6.4	1	06/28/21 14:26	6/24/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
Anthracene	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/28/21 14:26	6/24/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/28/21 14:26	6/24/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
Benzoic Acid	45 U	45	36	1	06/28/21 14:26	6/24/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/28/21 14:26	6/24/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/28/21 14:26	6/24/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/28/21 14:26	6/24/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
Chrysene	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	1.7	1	06/28/21 14:26	6/24/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/28/21 14:26	6/24/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/28/21 14:26	6/24/21	
Fluorene	9.1 U	9.1	1.3	1	06/28/21 14:26	6/24/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/28/21 14:26	6/24/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/28/21 14:26	6/24/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/28/21 14:26	6/24/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/28/21 14:26	6/24/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/28/21 14:26	6/24/21	
Isophorone	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/28/21 14:26	6/24/21	
Naphthalene	9.1 U	9.1	1.2	1	06/28/21 14:26	6/24/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/28/21 14:26	6/24/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/28/21 14:26	6/24/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/28/21 14:26	6/24/21	
Phenol	9.1 U	9.1	1.0	1	06/28/21 14:26	6/24/21	
Pyrene	9.1 U	9.1	1.5	1	06/28/21 14:26	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	35 - 141	06/28/21 14:26	
2-Fluorobiphenyl	65	31 - 118	06/28/21 14:26	
2-Fluorophenol	47	10 - 105	06/28/21 14:26	
Nitrobenzene-d5	67	31 - 110	06/28/21 14:26	
Phenol-d6	32	10 - 107	06/28/21 14:26	
p-Terphenyl-d14	93	10 - 165	06/28/21 14:26	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	4.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	1.2	1	06/28/21 14:56	6/24/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
2,4-Dinitrophenol	45 U	45	20	1	06/28/21 14:56	6/24/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/28/21 14:56	6/24/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/28/21 14:56	6/24/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/28/21 14:56	6/24/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/28/21 14:56	6/24/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/28/21 14:56	6/24/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/28/21 14:56	6/24/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/28/21 14:56	6/24/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
4-Nitrophenol	45 U	45	6.4	1	06/28/21 14:56	6/24/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
Anthracene	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/28/21 14:56	6/24/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/28/21 14:56	6/24/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
Benzoic Acid	45 U	45	36	1	06/28/21 14:56	6/24/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/28/21 14:56	6/24/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/28/21 14:56	6/24/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/28/21 14:56	6/24/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
Chrysene	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	1.7	1	06/28/21 14:56	6/24/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/28/21 14:56	6/24/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/28/21 14:56	6/24/21	
Fluorene	9.1 U	9.1	1.3	1	06/28/21 14:56	6/24/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/28/21 14:56	6/24/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/28/21 14:56	6/24/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/28/21 14:56	6/24/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/28/21 14:56	6/24/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/28/21 14:56	6/24/21	
Isophorone	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/28/21 14:56	6/24/21	
Naphthalene	9.1 U	9.1	1.2	1	06/28/21 14:56	6/24/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/28/21 14:56	6/24/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/28/21 14:56	6/24/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/28/21 14:56	6/24/21	
Phenol	9.1 U	9.1	1.0	1	06/28/21 14:56	6/24/21	
Pyrene	9.1 U	9.1	1.5	1	06/28/21 14:56	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	06/28/21 14:56	
2-Fluorobiphenyl	61	31 - 118	06/28/21 14:56	
2-Fluorophenol	41	10 - 105	06/28/21 14:56	
Nitrobenzene-d5	60	31 - 110	06/28/21 14:56	
Phenol-d6	28	10 - 107	06/28/21 14:56	
p-Terphenyl-d14	76	10 - 165	06/28/21 14:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	10.47	4.6	J
	unknown	11.43	8.6	J
	unknown	2.93	3.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	1.2	1	06/28/21 15:29	6/24/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
2,4-Dinitrophenol	45 U	45	20	1	06/28/21 15:29	6/24/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/28/21 15:29	6/24/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/28/21 15:29	6/24/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/28/21 15:29	6/24/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/28/21 15:29	6/24/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/28/21 15:29	6/24/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/28/21 15:29	6/24/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/28/21 15:29	6/24/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
4-Nitrophenol	45 U	45	6.4	1	06/28/21 15:29	6/24/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
Anthracene	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/28/21 15:29	6/24/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/28/21 15:29	6/24/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
Benzoic Acid	45 U	45	36	1	06/28/21 15:29	6/24/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/28/21 15:29	6/24/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/28/21 15:29	6/24/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/28/21 15:29	6/24/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
Chrysene	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	1.7	1	06/28/21 15:29	6/24/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/28/21 15:29	6/24/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/28/21 15:29	6/24/21	
Fluorene	9.1 U	9.1	1.3	1	06/28/21 15:29	6/24/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/28/21 15:29	6/24/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/28/21 15:29	6/24/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/28/21 15:29	6/24/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/28/21 15:29	6/24/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/28/21 15:29	6/24/21	
Isophorone	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/28/21 15:29	6/24/21	
Naphthalene	9.1 U	9.1	1.2	1	06/28/21 15:29	6/24/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/28/21 15:29	6/24/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/28/21 15:29	6/24/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/28/21 15:29	6/24/21	
Phenol	9.1 U	9.1	1.0	1	06/28/21 15:29	6/24/21	
Pyrene	9.1 U	9.1	1.5	1	06/28/21 15:29	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	35 - 141	06/28/21 15:29	
2-Fluorobiphenyl	57	31 - 118	06/28/21 15:29	
2-Fluorophenol	44	10 - 105	06/28/21 15:29	
Nitrobenzene-d5	60	31 - 110	06/28/21 15:29	
Phenol-d6	30	10 - 107	06/28/21 15:29	
p-Terphenyl-d14	89	10 - 165	06/28/21 15:29	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	1.2	1	06/28/21 16:02	6/24/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
2,4-Dinitrophenol	45 U	45	20	1	06/28/21 16:02	6/24/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/28/21 16:02	6/24/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/28/21 16:02	6/24/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/28/21 16:02	6/24/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/28/21 16:02	6/24/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/28/21 16:02	6/24/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/28/21 16:02	6/24/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/28/21 16:02	6/24/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
4-Nitrophenol	45 U	45	6.4	1	06/28/21 16:02	6/24/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
Anthracene	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/28/21 16:02	6/24/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/28/21 16:02	6/24/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
Benzoic Acid	45 U	45	36	1	06/28/21 16:02	6/24/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/28/21 16:02	6/24/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/28/21 16:02	6/24/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/28/21 16:02	6/24/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
Chrysene	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	1.7	1	06/28/21 16:02	6/24/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/28/21 16:02	6/24/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/28/21 16:02	6/24/21	
Fluorene	9.1 U	9.1	1.3	1	06/28/21 16:02	6/24/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/28/21 16:02	6/24/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/28/21 16:02	6/24/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/28/21 16:02	6/24/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/28/21 16:02	6/24/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/28/21 16:02	6/24/21	
Isophorone	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/28/21 16:02	6/24/21	
Naphthalene	9.1 U	9.1	1.2	1	06/28/21 16:02	6/24/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/28/21 16:02	6/24/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/28/21 16:02	6/24/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/28/21 16:02	6/24/21	
Phenol	9.1 U	9.1	1.0	1	06/28/21 16:02	6/24/21	
Pyrene	9.1 U	9.1	1.5	1	06/28/21 16:02	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	35 - 141	06/28/21 16:02	
2-Fluorobiphenyl	59	31 - 118	06/28/21 16:02	
2-Fluorophenol	41	10 - 105	06/28/21 16:02	
Nitrobenzene-d5	61	31 - 110	06/28/21 16:02	
Phenol-d6	29	10 - 107	06/28/21 16:02	
p-Terphenyl-d14	85	10 - 165	06/28/21 16:02	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	3.7	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	1.2	1	06/28/21 16:35	6/24/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
2,4-Dinitrophenol	45 U	45	20	1	06/28/21 16:35	6/24/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/28/21 16:35	6/24/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/28/21 16:35	6/24/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/28/21 16:35	6/24/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/28/21 16:35	6/24/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/28/21 16:35	6/24/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/28/21 16:35	6/24/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/28/21 16:35	6/24/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
4-Nitrophenol	45 U	45	6.4	1	06/28/21 16:35	6/24/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
Anthracene	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/28/21 16:35	6/24/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/28/21 16:35	6/24/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
Benzoic Acid	45 U	45	36	1	06/28/21 16:35	6/24/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/28/21 16:35	6/24/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/28/21 16:35	6/24/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/28/21 16:35	6/24/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
Chrysene	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	1.7	1	06/28/21 16:35	6/24/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/28/21 16:35	6/24/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/28/21 16:35	6/24/21	
Fluorene	9.1 U	9.1	1.3	1	06/28/21 16:35	6/24/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/28/21 16:35	6/24/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/28/21 16:35	6/24/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/28/21 16:35	6/24/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/28/21 16:35	6/24/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/28/21 16:35	6/24/21	
Isophorone	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/28/21 16:35	6/24/21	
Naphthalene	9.1 U	9.1	1.2	1	06/28/21 16:35	6/24/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/28/21 16:35	6/24/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/28/21 16:35	6/24/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/28/21 16:35	6/24/21	
Phenol	9.1 U	9.1	1.0	1	06/28/21 16:35	6/24/21	
Pyrene	9.1 U	9.1	1.5	1	06/28/21 16:35	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	70	35 - 141	06/28/21 16:35	
2-Fluorobiphenyl	63	31 - 118	06/28/21 16:35	
2-Fluorophenol	45	10 - 105	06/28/21 16:35	
Nitrobenzene-d5	65	31 - 110	06/28/21 16:35	
Phenol-d6	30	10 - 107	06/28/21 16:35	
p-Terphenyl-d14	73	10 - 165	06/28/21 16:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	4.8	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	1.2	1	06/28/21 17:08	6/24/21	
1,2-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
1,3-Dichlorobenzene	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
1,4-Dichlorobenzene	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
2,4,5-Trichlorophenol	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
2,4,6-Trichlorophenol	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
2,4-Dichlorophenol	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
2,4-Dimethylphenol	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
2,4-Dinitrophenol	45 U	45	20	1	06/28/21 17:08	6/24/21	
2,4-Dinitrotoluene	9.1 U	9.1	2.4	1	06/28/21 17:08	6/24/21	
2,6-Dinitrotoluene	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
2-Chloronaphthalene	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
2-Chlorophenol	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
2-Methylnaphthalene	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
2-Methylphenol	9.1 U	9.1	1.0	1	06/28/21 17:08	6/24/21	
2-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
2-Nitrophenol	9.1 U	9.1	1.5	1	06/28/21 17:08	6/24/21	
3,3'-Dichlorobenzidine	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
3- and 4-Methylphenol Coelution	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
3-Nitroaniline	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
4,6-Dinitro-2-methylphenol	45 U	45	8.7	1	06/28/21 17:08	6/24/21	
4-Bromophenyl Phenyl Ether	9.1 U	9.1	1.7	1	06/28/21 17:08	6/24/21	
4-Chloro-3-methylphenol	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
4-Chloroaniline	9.1 U	9.1	1.0	1	06/28/21 17:08	6/24/21	
4-Chlorophenyl Phenyl Ether	9.1 U	9.1	1.5	1	06/28/21 17:08	6/24/21	
4-Nitroaniline	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
4-Nitrophenol	45 U	45	6.4	1	06/28/21 17:08	6/24/21	
Acenaphthene	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
Acenaphthylene	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
Anthracene	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
Benz(a)anthracene	9.1 U	9.1	1.6	1	06/28/21 17:08	6/24/21	
Benzo(a)pyrene	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
Benzo(b)fluoranthene	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
Benzo(g,h,i)perylene	9.1 U	9.1	1.0	1	06/28/21 17:08	6/24/21	
Benzo(k)fluoranthene	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
Benzoic Acid	45 U	45	36	1	06/28/21 17:08	6/24/21	
Benzyl Alcohol	9.1 U	9.1	1.6	1	06/28/21 17:08	6/24/21	
2,2'-Oxybis(1-chloropropane)	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
Bis(2-chloroethoxy)methane	9.1 U	9.1	1.9	1	06/28/21 17:08	6/24/21	
Bis(2-chloroethyl) Ether	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
Bis(2-ethylhexyl) Phthalate	9.1 U	9.1	7.8	1	06/28/21 17:08	6/24/21	
Butyl Benzyl Phthalate	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
Chrysene	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	1.7	1	06/28/21 17:08	6/24/21	
Di-n-octyl Phthalate	9.1 U	9.1	3.3	1	06/28/21 17:08	6/24/21	
Dibenz(a,h)anthracene	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
Dibenzofuran	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
Diethyl Phthalate	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
Dimethyl Phthalate	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
Fluoranthene	9.1 U	9.1	1.5	1	06/28/21 17:08	6/24/21	
Fluorene	9.1 U	9.1	1.3	1	06/28/21 17:08	6/24/21	
Hexachlorobenzene	9.1 U	9.1	1.6	1	06/28/21 17:08	6/24/21	
Hexachlorobutadiene	9.1 U	9.1	1.0	1	06/28/21 17:08	6/24/21	
Hexachlorocyclopentadiene	9.1 U	9.1	2.2	1	06/28/21 17:08	6/24/21	
Hexachloroethane	9.1 U	9.1	1.1	1	06/28/21 17:08	6/24/21	
Indeno(1,2,3-cd)pyrene	9.1 U	9.1	1.8	1	06/28/21 17:08	6/24/21	
Isophorone	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
N-Nitrosodi-n-propylamine	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
N-Nitrosodiphenylamine	9.1 U	9.1	2.7	1	06/28/21 17:08	6/24/21	
Naphthalene	9.1 U	9.1	1.2	1	06/28/21 17:08	6/24/21	
Nitrobenzene	9.1 U	9.1	1.5	1	06/28/21 17:08	6/24/21	
Pentachlorophenol (PCP)	45 U	45	9.7	1	06/28/21 17:08	6/24/21	
Phenanthrene	9.1 U	9.1	1.4	1	06/28/21 17:08	6/24/21	
Phenol	9.1 U	9.1	1.0	1	06/28/21 17:08	6/24/21	
Pyrene	9.1 U	9.1	1.5	1	06/28/21 17:08	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	81	35 - 141	06/28/21 17:08	
2-Fluorobiphenyl	67	31 - 118	06/28/21 17:08	
2-Fluorophenol	50	10 - 105	06/28/21 17:08	
Nitrobenzene-d5	69	31 - 110	06/28/21 17:08	
Phenol-d6	32	10 - 107	06/28/21 17:08	
p-Terphenyl-d14	73	10 - 165	06/28/21 17:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	13.98	17	J
	unknown	2.94	4.2	J

Semivolatile Organic Compounds by GC

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	0.020	1	06/30/21 14:44	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 14:44	6/22/21	
alpha-BHC	**0.082**	0.045	0.020	1	06/30/21 14:44	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	
delta-BHC	**0.065**	0.045	0.020	1	06/30/21 14:44	6/22/21	
gamma-BHC (Lindane)	**0.078**	0.045	0.020	1	06/30/21 14:44	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/30/21 14:44	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	16	10 - 164	06/30/21 14:44	
Tetrachloro-m-xylene	44	10 - 147	06/30/21 14:44	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:00
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-040	**Units:**	ug/L
Lab Code:	R2106122-002	**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	0.020	1	06/30/21 15:03	6/22/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Aldrin	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Dieldrin	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Endrin	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Heptachlor	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 15:03	6/22/21	
alpha-BHC	**0.43**	0.045	0.020	1	06/30/21 15:03	6/22/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
beta-BHC	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
delta-BHC	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/30/21 15:03	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10 - 164	06/30/21 15:03	
Tetrachloro-m-xylene	66	10 - 147	06/30/21 15:03	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	0.020	1	06/25/21 22:39	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 22:39	6/23/21	
alpha-BHC	**0.17**	0.045	0.020	1	06/25/21 22:39	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	
delta-BHC	**0.14**	0.045	0.020	1	06/25/21 22:39	6/23/21	
gamma-BHC (Lindane)	**0.17**	0.045	0.020	1	06/25/21 22:39	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 22:39	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10 - 164	06/25/21 22:39	
Tetrachloro-m-xylene	57	10 - 147	06/25/21 22:39	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	0.020	1	06/25/21 00:21	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 00:21	6/23/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
delta-BHC	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 00:21	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 164	06/25/21 00:21	
Tetrachloro-m-xylene	53	10 - 147	06/25/21 00:21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	0.020	1	06/25/21 00:40	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 00:40	6/23/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
delta-BHC	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 00:40	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 164	06/25/21 00:40	
Tetrachloro-m-xylene	48	10 - 147	06/25/21 00:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	0.020	1	06/25/21 00:59	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 00:59	6/23/21	
alpha-BHC	**0.078**	0.045	0.020	1	06/25/21 00:59	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
delta-BHC	**0.28**	0.045	0.020	1	06/25/21 00:59	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 00:59	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 164	06/25/21 00:59	
Tetrachloro-m-xylene	53	10 - 147	06/25/21 00:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	0.020	1	06/25/21 01:18	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 01:18	6/23/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
delta-BHC	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 01:18	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10 - 164	06/25/21 01:18	
Tetrachloro-m-xylene	51	10 - 147	06/25/21 01:18	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	0.020	1	06/25/21 01:38	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 01:38	6/23/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
delta-BHC	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 01:38	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 164	06/25/21 01:38	
Tetrachloro-m-xylene	48	10 - 147	06/25/21 01:38	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	0.020	1	06/25/21 02:16	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 02:16	6/23/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
delta-BHC	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 02:16	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	19	10 - 164	06/25/21 02:16	
Tetrachloro-m-xylene	50	10 - 147	06/25/21 02:16	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	0.020	1	06/25/21 02:35	6/23/21	
4,4'-DDE	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
4,4'-DDT	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Aldrin	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Dieldrin	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Endosulfan I	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Endosulfan II	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Endosulfan Sulfate	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Endrin	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Endrin Ketone	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Heptachlor	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Heptachlor Epoxide	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Methoxychlor	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 02:35	6/23/21	
alpha-BHC	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
alpha-Chlordane	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
beta-BHC	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
delta-BHC	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
gamma-BHC (Lindane)	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	
gamma-Chlordane	0.045 U	0.045	0.020	1	06/25/21 02:35	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	18	10 - 164	06/25/21 02:35	
Tetrachloro-m-xylene	50	10 - 147	06/25/21 02:35	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 09:05
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-037	**Units:**	ug/L
Lab Code:	R2106122-001	**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	0.50	1	06/24/21 19:05	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 19:05	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 19:05	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 19:05	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 19:05	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 19:05	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 19:05	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	16	10 - 152	06/24/21 19:05	
Tetrachloro-m-xylene	48	14 - 129	06/24/21 19:05	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:00
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-040	**Units:**	ug/L
Lab Code:	R2106122-002	**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	0.50	1	06/24/21 19:25	6/22/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/24/21 19:25	6/22/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/24/21 19:25	6/22/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/24/21 19:25	6/22/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/24/21 19:25	6/22/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/24/21 19:25	6/22/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/24/21 19:25	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	41	10 - 152	06/24/21 19:25	
Tetrachloro-m-xylene	57	14 - 129	06/24/21 19:25	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 11:20
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-041	**Units:**	ug/L
Lab Code:	R2106122-003	**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	0.50	1	07/02/21 11:34	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	07/02/21 11:34	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	07/02/21 11:34	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	07/02/21 11:34	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	07/02/21 11:34	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	07/02/21 11:34	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	07/02/21 11:34	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 152	07/02/21 11:34	
Tetrachloro-m-xylene	51	14 - 129	07/02/21 11:34	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:45
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-039	**Units:**	ug/L
Lab Code:	R2106122-004	**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	0.50	1	06/28/21 14:01	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 14:01	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 14:01	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 14:01	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 14:01	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 14:01	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 14:01	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10 - 152	06/28/21 14:01	
Tetrachloro-m-xylene	43	14 - 129	06/28/21 14:01	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 08:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-036	**Units:**	ug/L
Lab Code:	R2106122-005	**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	0.50	1	06/28/21 14:41	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 14:41	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 14:41	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 14:41	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 14:41	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 14:41	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 14:41	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 152	06/28/21 14:41	
Tetrachloro-m-xylene	35	14 - 129	06/28/21 14:41	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 10:15
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-038	**Units:**	ug/L
Lab Code:	R2106122-007	**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	0.50	1	06/28/21 15:00	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 15:00	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 15:00	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 15:00	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 15:00	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 15:00	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 15:00	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 152	06/28/21 15:00	
Tetrachloro-m-xylene	44	14 - 129	06/28/21 15:00	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 12:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-042	**Units:**	ug/L
Lab Code:	R2106122-008	**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	0.50	1	06/28/21 15:20	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 15:20	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 15:20	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 15:20	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 15:20	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 15:20	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 15:20	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 152	06/28/21 15:20	
Tetrachloro-m-xylene	36	14 - 129	06/28/21 15:20	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 13:55
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-043	**Units:**	ug/L
Lab Code:	R2106122-009	**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	0.50	1	06/28/21 15:40	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 15:40	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 15:40	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 15:40	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 15:40	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 15:40	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 15:40	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 152	06/28/21 15:40	
Tetrachloro-m-xylene	31	14 - 129	06/28/21 15:40	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-044	**Units:**	ug/L
Lab Code:	R2106122-010	**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	0.50	1	06/28/21 15:59	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 15:59	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 15:59	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 15:59	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 15:59	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 15:59	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 15:59	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	14	10 - 152	06/28/21 15:59	
Tetrachloro-m-xylene	37	14 - 129	06/28/21 15:59	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	06/17/21 14:35
Sample Matrix:	Water	**Date Received:**	06/18/21 11:00
Sample Name:	WG-9954-061721-SG-045	**Units:**	ug/L
Lab Code:	R2106122-011	**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	0.50	1	06/28/21 16:19	6/23/21	
Aroclor 1221	1.8 U	1.8	1.0	1	06/28/21 16:19	6/23/21	
Aroclor 1232	0.91 U	0.91	0.50	1	06/28/21 16:19	6/23/21	
Aroclor 1242	0.91 U	0.91	0.50	1	06/28/21 16:19	6/23/21	
Aroclor 1248	0.91 U	0.91	0.50	1	06/28/21 16:19	6/23/21	
Aroclor 1254	0.91 U	0.91	0.50	1	06/28/21 16:19	6/23/21	
Aroclor 1260	0.91 U	0.91	0.50	1	06/28/21 16:19	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	13	10 - 152	06/28/21 16:19	
Tetrachloro-m-xylene	38	14 - 129	06/28/21 16:19	

QC Summary 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

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
WG-9954-061721-SG-037	R2106122-001	90	96	100
WG-9954-061721-SG-040	R2106122-002	94	104	102
WG-9954-061721-SG-041	R2106122-003	95	105	101
WG-9954-061721-SG-039	R2106122-004	95	104	103
WG-9954-061721-SG-036	R2106122-005	96	104	102
TB-9954-061721-SG-007	R2106122-006	95	105	103
WG-9954-061721-SG-038	R2106122-007	96	105	103
WG-9954-061721-SG-042	R2106122-008	95	104	102
WG-9954-061721-SG-043	R2106122-009	94	103	102
WG-9954-061721-SG-044	R2106122-010	94	103	101
WG-9954-061721-SG-045	R2106122-011	93	103	100
Method Blank	RQ2107580-04	96	103	102
Method Blank	RQ2107603-07	92	94	100
Lab Control Sample	RQ2107580-03	100	104	102
Lab Control Sample	RQ2107603-03	92	98	99

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107580-04	**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	06/28/21 13:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/28/21 13:51	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/28/21 13:51	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/21 13:51	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/28/21 13:51	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/28/21 13:51	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/21 13:51	
2-Butanone (MEK)	10 U	10	0.78	1	06/28/21 13:51	
2-Hexanone	10 U	10	0.20	1	06/28/21 13:51	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/28/21 13:51	
Acetone	10 U	10	5.0	1	06/28/21 13:51	
Benzene	5.0 U	5.0	0.20	1	06/28/21 13:51	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/28/21 13:51	
Bromoform	5.0 U	5.0	0.25	1	06/28/21 13:51	
Bromomethane	5.0 U	5.0	0.70	1	06/28/21 13:51	
Carbon Disulfide	10 U	10	0.42	1	06/28/21 13:51	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/28/21 13:51	
Chlorobenzene	5.0 U	5.0	0.20	1	06/28/21 13:51	
Chloroethane	5.0 U	5.0	0.23	1	06/28/21 13:51	
Chloroform	5.0 U	5.0	0.24	1	06/28/21 13:51	
Chloromethane	5.0 U	5.0	0.28	1	06/28/21 13:51	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/28/21 13:51	
Dichloromethane	5.0 U	5.0	0.65	1	06/28/21 13:51	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/21 13:51	
Styrene	5.0 U	5.0	0.20	1	06/28/21 13:51	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/28/21 13:51	
Toluene	5.0 U	5.0	0.20	1	06/28/21 13:51	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/28/21 13:51	
Vinyl Acetate	10 U	10	1.1	1	06/28/21 13:51	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/28/21 13:51	
Xylenes, Total	5.0 U	5.0	0.23	1	06/28/21 13:51	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/28/21 13:51	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/21 13:51	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/28/21 13:51	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/28/21 13:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107580-04	**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	06/28/21 13:51	
Dibromofluoromethane	103	80 - 116	06/28/21 13:51	
Toluene-d8	102	87 - 121	06/28/21 13:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107580-04	**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	1.27	5.3	JN

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107603-07	**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	06/30/21 13:07	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	06/30/21 13:07	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	06/30/21 13:07	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/21 13:07	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.20	1	06/30/21 13:07	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	06/30/21 13:07	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/21 13:07	
2-Butanone (MEK)	10 U	10	0.78	1	06/30/21 13:07	
2-Hexanone	10 U	10	0.20	1	06/30/21 13:07	
4-Methyl-2-pentanone	10 U	10	0.20	1	06/30/21 13:07	
Acetone	10 U	10	5.0	1	06/30/21 13:07	
Benzene	5.0 U	5.0	0.20	1	06/30/21 13:07	
Bromodichloromethane	5.0 U	5.0	0.20	1	06/30/21 13:07	
Bromoform	5.0 U	5.0	0.25	1	06/30/21 13:07	
Bromomethane	5.0 U	5.0	0.70	1	06/30/21 13:07	
Carbon Disulfide	10 U	10	0.42	1	06/30/21 13:07	
Carbon Tetrachloride	5.0 U	5.0	0.34	1	06/30/21 13:07	
Chlorobenzene	5.0 U	5.0	0.20	1	06/30/21 13:07	
Chloroethane	5.0 U	5.0	0.23	1	06/30/21 13:07	
Chloroform	5.0 U	5.0	0.24	1	06/30/21 13:07	
Chloromethane	5.0 U	5.0	0.28	1	06/30/21 13:07	
Dibromochloromethane	5.0 U	5.0	0.20	1	06/30/21 13:07	
Dichloromethane	5.0 U	5.0	0.65	1	06/30/21 13:07	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/21 13:07	
Styrene	5.0 U	5.0	0.20	1	06/30/21 13:07	
Tetrachloroethene (PCE)	5.0 U	5.0	0.21	1	06/30/21 13:07	
Toluene	5.0 U	5.0	0.20	1	06/30/21 13:07	
Trichloroethene (TCE)	5.0 U	5.0	0.20	1	06/30/21 13:07	
Vinyl Acetate	10 U	10	1.1	1	06/30/21 13:07	
Vinyl Chloride	5.0 U	5.0	0.20	1	06/30/21 13:07	
Xylenes, Total	5.0 U	5.0	0.23	1	06/30/21 13:07	
cis-1,2-Dichloroethene	5.0 U	5.0	0.23	1	06/30/21 13:07	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/21 13:07	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	06/30/21 13:07	
trans-1,3-Dichloropropene	5.0 U	5.0	0.23	1	06/30/21 13:07	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107603-07	**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	06/30/21 13:07	
Dibromofluoromethane	94	80 - 116	06/30/21 13:07	
Toluene-d8	100	87 - 121	06/30/21 13:07	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107603-07	**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	1.55	9.7	J

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107580-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.0	20.0	85	75-125
1,1,2,2-Tetrachloroethane	8260C	19.3	20.0	97	78-126
1,1,2-Trichloroethane	8260C	18.0	20.0	90	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.9	20.0	94	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.9	20.0	100	71-118
1,2-Dichloroethane	8260C	19.3	20.0	96	71-127
1,2-Dichloropropane	8260C	18.3	20.0	92	80-119
2-Butanone (MEK)	8260C	20.2	20.0	101	61-137
2-Hexanone	8260C	19.2	20.0	96	63-124
4-Methyl-2-pentanone	8260C	19.9	20.0	100	66-124
Acetone	8260C	17.8	20.0	89	40-161
Benzene	8260C	17.9	20.0	90	79-119
Bromodichloromethane	8260C	18.3	20.0	91	81-123
Bromoform	8260C	18.0	20.0	90	65-146
Bromomethane	8260C	10.9	20.0	54	42-166
Carbon Disulfide	8260C	23.4	20.0	117	66-128
Carbon Tetrachloride	8260C	16.0	20.0	80	70-127
Chlorobenzene	8260C	17.8	20.0	89	80-121
Chloroethane	8260C	24.1	20.0	120	62-131
Chloroform	8260C	18.4	20.0	92	79-120
Chloromethane	8260C	16.4	20.0	82	65-135
Dibromochloromethane	8260C	18.3	20.0	92	72-128
Dichloromethane	8260C	18.4	20.0	92	73-122
Ethylbenzene	8260C	17.3	20.0	87	76-120
Styrene	8260C	18.0	20.0	90	80-124
Tetrachloroethene (PCE)	8260C	16.5	20.0	83	72-125
Toluene	8260C	17.0	20.0	85	79-119
Trichloroethene (TCE)	8260C	16.4	20.0	82	74-122
Vinyl Acetate	8260C	24.5	20.0	123	52-174
Vinyl Chloride	8260C	16.5	20.0	82	74-159
cis-1,2-Dichloroethene	8260C	19.5	20.0	97	80-121
cis-1,3-Dichloropropene	8260C	18.6	20.0	93	77-122
trans-1,2-Dichloroethene	8260C	19.9	20.0	99	73-118

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

Service Request: R2106122
Date Analyzed: 06/28/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107580-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	18.6	20.0	93	71-133

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/30/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107603-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.2	20.0	86	75-125
1,1,2,2-Tetrachloroethane	8260C	18.7	20.0	94	78-126
1,1,2-Trichloroethane	8260C	16.6	20.0	83	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.1	20.0	95	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.3	20.0	111	71-118
1,2-Dichloroethane	8260C	17.3	20.0	86	71-127
1,2-Dichloropropane	8260C	17.5	20.0	88	80-119
2-Butanone (MEK)	8260C	21.0	20.0	105	61-137
2-Hexanone	8260C	19.4	20.0	97	63-124
4-Methyl-2-pentanone	8260C	20.6	20.0	103	66-124
Acetone	8260C	16.9	20.0	84	40-161
Benzene	8260C	17.7	20.0	88	79-119
Bromodichloromethane	8260C	17.3	20.0	87	81-123
Bromoform	8260C	15.7	20.0	79	65-146
Bromomethane	8260C	14.4	20.0	72	42-166
Carbon Disulfide	8260C	18.6	20.0	93	66-128
Carbon Tetrachloride	8260C	16.2	20.0	81	70-127
Chlorobenzene	8260C	16.5	20.0	82	80-121
Chloroethane	8260C	19.3	20.0	96	62-131
Chloroform	8260C	18.3	20.0	92	79-120
Chloromethane	8260C	17.2	20.0	86	65-135
Dibromochloromethane	8260C	15.4	20.0	77	72-128
Dichloromethane	8260C	18.6	20.0	93	73-122
Ethylbenzene	8260C	16.9	20.0	84	76-120
Styrene	8260C	16.2	20.0	81	80-124
Tetrachloroethene (PCE)	8260C	15.5	20.0	78	72-125
Toluene	8260C	17.2	20.0	86	79-119
Trichloroethene (TCE)	8260C	15.5	20.0	78	74-122
Vinyl Acetate	8260C	24.9	20.0	124	52-174
Vinyl Chloride	8260C	15.5	20.0	78	74-159
cis-1,2-Dichloroethene	8260C	18.7	20.0	93	80-121
cis-1,3-Dichloropropene	8260C	17.4	20.0	87	77-122
trans-1,2-Dichloroethene	8260C	19.6	20.0	98	73-118

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

Service Request: R2106122
Date Analyzed: 06/30/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2107603-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
trans-1,3-Dichloropropene	8260C	17.3	20.0	86	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
www.alsglobal.com

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
WG-9954-061721-SG-037	R2106122-001	82	66	54
WG-9954-061721-SG-040	R2106122-002	82	60	53
WG-9954-061721-SG-041	R2106122-003	75	65	47
WG-9954-061721-SG-039	R2106122-004	71	73	51
WG-9954-061721-SG-036	R2106122-005	76	65	47
WG-9954-061721-SG-038	R2106122-007	82	61	41
WG-9954-061721-SG-042	R2106122-008	68	57	44
WG-9954-061721-SG-043	R2106122-009	72	59	41
WG-9954-061721-SG-044	R2106122-010	70	63	45
WG-9954-061721-SG-045	R2106122-011	81	67	50
Method Blank	RQ2107202-03	78	62	51
Method Blank	RQ2107258-03	62	53	42
Method Blank	RQ2107258-03	64	50	42
Lab Control Sample	RQ2107202-04	71	66	46
Duplicate Lab Control Sample	RQ2107202-05	75	64	48
Lab Control Sample	RQ2107258-04	87	69	53
Lab Control Sample	RQ2107258-04	95	66	52
Duplicate Lab Control Sample	RQ2107258-05	80	70	54
Duplicate Lab Control Sample	RQ2107258-05	94	68	52

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D

Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	p-Terphenyl-d14 10-165
WG-9954-061721-SG-037	R2106122-001	70	39	43
WG-9954-061721-SG-040	R2106122-002	65	50	52
WG-9954-061721-SG-041	R2106122-003	67	31	58
WG-9954-061721-SG-039	R2106122-004	75	33	65
WG-9954-061721-SG-036	R2106122-005	67	32	93
WG-9954-061721-SG-038	R2106122-007	60	28	76
WG-9954-061721-SG-042	R2106122-008	60	30	89
WG-9954-061721-SG-043	R2106122-009	61	29	85
WG-9954-061721-SG-044	R2106122-010	65	30	73
WG-9954-061721-SG-045	R2106122-011	69	32	73
Method Blank	RQ2107202-03	68	33	78
Method Blank	RQ2107258-03	56	29	80
Method Blank	RQ2107258-03	52	27	70
Lab Control Sample	RQ2107202-04	70	33	71
Duplicate Lab Control Sample	RQ2107202-05	66	32	70
Lab Control Sample	RQ2107258-04	73	36	96
Lab Control Sample	RQ2107258-04	64	34	92
Duplicate Lab Control Sample	RQ2107258-05	68	38	96
Duplicate Lab Control Sample	RQ2107258-05	67	36	90

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107202-03	**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	06/28/21 22:49	6/23/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2,4-Dinitrophenol	50 U	50	20	1	06/28/21 22:49	6/23/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/28/21 22:49	6/23/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2-Chlorophenol	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
2-Methylphenol	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
2-Nitroaniline	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
2-Nitrophenol	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
3-Nitroaniline	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/28/21 22:49	6/23/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/28/21 22:49	6/23/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
4-Chloroaniline	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
4-Nitroaniline	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
4-Nitrophenol	50 U	50	6.4	1	06/28/21 22:49	6/23/21	
Acenaphthene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Acenaphthylene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Anthracene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Benz(a)anthracene	10 U	10	1.6	1	06/28/21 22:49	6/23/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Benzoic Acid	50 U	50	36	1	06/28/21 22:49	6/23/21	
Benzyl Alcohol	10 U	10	1.6	1	06/28/21 22:49	6/23/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/28/21 22:49	6/23/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/28/21 22:49	6/23/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Chrysene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107202-03	**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	1.7	1	06/28/21 22:49	6/23/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/28/21 22:49	6/23/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
Dibenzofuran	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Diethyl Phthalate	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Fluoranthene	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
Fluorene	10 U	10	1.3	1	06/28/21 22:49	6/23/21	
Hexachlorobenzene	10 U	10	1.6	1	06/28/21 22:49	6/23/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/28/21 22:49	6/23/21	
Hexachloroethane	10 U	10	1.1	1	06/28/21 22:49	6/23/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/28/21 22:49	6/23/21	
Isophorone	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/28/21 22:49	6/23/21	
Naphthalene	10 U	10	1.2	1	06/28/21 22:49	6/23/21	
Nitrobenzene	10 U	10	1.5	1	06/28/21 22:49	6/23/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/28/21 22:49	6/23/21	
Phenanthrene	10 U	10	1.4	1	06/28/21 22:49	6/23/21	
Phenol	10 U	10	1.0	1	06/28/21 22:49	6/23/21	
Pyrene	10 U	10	1.5	1	06/28/21 22:49	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	06/28/21 22:49	
2-Fluorobiphenyl	62	31 - 118	06/28/21 22:49	
2-Fluorophenol	51	10 - 105	06/28/21 22:49	
Nitrobenzene-d5	68	31 - 110	06/28/21 22:49	
Phenol-d6	33	10 - 107	06/28/21 22:49	
p-Terphenyl-d14	78	10 - 165	06/28/21 22:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.93	5.1	J

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107258-03	**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	06/28/21 12:52	6/24/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
2,4-Dinitrophenol	50 U	50	20	1	06/28/21 12:52	6/24/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/28/21 12:52	6/24/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
2-Chlorophenol	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
2-Methylphenol	10 U	10	1.0	1	06/28/21 12:52	6/24/21	
2-Nitroaniline	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
2-Nitrophenol	10 U	10	1.5	1	06/28/21 12:52	6/24/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
3-Nitroaniline	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/28/21 12:52	6/24/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/28/21 12:52	6/24/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
4-Chloroaniline	10 U	10	1.0	1	06/28/21 12:52	6/24/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/28/21 12:52	6/24/21	
4-Nitroaniline	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
4-Nitrophenol	50 U	50	6.4	1	06/28/21 12:52	6/24/21	
Acenaphthene	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
Acenaphthylene	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
Anthracene	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
Benz(a)anthracene	10 U	10	1.6	1	06/28/21 12:52	6/24/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/28/21 12:52	6/24/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
Benzoic Acid	50 U	50	36	1	06/28/21 12:52	6/24/21	
Benzyl Alcohol	10 U	10	1.6	1	06/28/21 12:52	6/24/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/28/21 12:52	6/24/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/28/21 12:52	6/24/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
Chrysene	10 U	10	1.2	1	06/28/21 12:52	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107258-03	**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	1.7	1	06/28/21 12:52	6/24/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/28/21 12:52	6/24/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
Dibenzofuran	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
Diethyl Phthalate	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
Fluoranthene	10 U	10	1.5	1	06/28/21 12:52	6/24/21	
Fluorene	10 U	10	1.3	1	06/28/21 12:52	6/24/21	
Hexachlorobenzene	10 U	10	1.6	1	06/28/21 12:52	6/24/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/28/21 12:52	6/24/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/28/21 12:52	6/24/21	
Hexachloroethane	10 U	10	1.1	1	06/28/21 12:52	6/24/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/28/21 12:52	6/24/21	
Isophorone	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/28/21 12:52	6/24/21	
Naphthalene	10 U	10	1.2	1	06/28/21 12:52	6/24/21	
Nitrobenzene	10 U	10	1.5	1	06/28/21 12:52	6/24/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/28/21 12:52	6/24/21	
Phenanthrene	10 U	10	1.4	1	06/28/21 12:52	6/24/21	
Phenol	10 U	10	1.0	1	06/28/21 12:52	6/24/21	
Pyrene	10 U	10	1.5	1	06/28/21 12:52	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	35 - 141	06/28/21 12:52	
2-Fluorobiphenyl	53	31 - 118	06/28/21 12:52	
2-Fluorophenol	42	10 - 105	06/28/21 12:52	
Nitrobenzene-d5	56	31 - 110	06/28/21 12:52	
Phenol-d6	29	10 - 107	06/28/21 12:52	
p-Terphenyl-d14	80	10 - 165	06/28/21 12:52	

Tentatively Identified Compounds

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

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107258-03	**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	06/28/21 16:33	6/24/21	
1,2-Dichlorobenzene	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
1,3-Dichlorobenzene	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
1,4-Dichlorobenzene	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
2,4,5-Trichlorophenol	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
2,4,6-Trichlorophenol	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
2,4-Dichlorophenol	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
2,4-Dimethylphenol	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
2,4-Dinitrophenol	50 U	50	20	1	06/28/21 16:33	6/24/21	
2,4-Dinitrotoluene	10 U	10	2.4	1	06/28/21 16:33	6/24/21	
2,6-Dinitrotoluene	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
2-Chloronaphthalene	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
2-Chlorophenol	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
2-Methylnaphthalene	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
2-Methylphenol	10 U	10	1.0	1	06/28/21 16:33	6/24/21	
2-Nitroaniline	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
2-Nitrophenol	10 U	10	1.5	1	06/28/21 16:33	6/24/21	
3,3'-Dichlorobenzidine	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
3- and 4-Methylphenol Coelution	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
3-Nitroaniline	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
4,6-Dinitro-2-methylphenol	50 U	50	8.7	1	06/28/21 16:33	6/24/21	
4-Bromophenyl Phenyl Ether	10 U	10	1.7	1	06/28/21 16:33	6/24/21	
4-Chloro-3-methylphenol	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
4-Chloroaniline	10 U	10	1.0	1	06/28/21 16:33	6/24/21	
4-Chlorophenyl Phenyl Ether	10 U	10	1.5	1	06/28/21 16:33	6/24/21	
4-Nitroaniline	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
4-Nitrophenol	50 U	50	6.4	1	06/28/21 16:33	6/24/21	
Acenaphthene	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
Acenaphthylene	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
Anthracene	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
Benz(a)anthracene	10 U	10	1.6	1	06/28/21 16:33	6/24/21	
Benzo(a)pyrene	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
Benzo(b)fluoranthene	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
Benzo(g,h,i)perylene	10 U	10	1.0	1	06/28/21 16:33	6/24/21	
Benzo(k)fluoranthene	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
Benzoic Acid	50 U	50	36	1	06/28/21 16:33	6/24/21	
Benzyl Alcohol	10 U	10	1.6	1	06/28/21 16:33	6/24/21	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
Bis(2-chloroethoxy)methane	10 U	10	1.9	1	06/28/21 16:33	6/24/21	
Bis(2-chloroethyl) Ether	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
Bis(2-ethylhexyl) Phthalate	10 U	10	7.8	1	06/28/21 16:33	6/24/21	
Butyl Benzyl Phthalate	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
Chrysene	10 U	10	1.2	1	06/28/21 16:33	6/24/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107258-03	**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	1.7	1	06/28/21 16:33	6/24/21	
Di-n-octyl Phthalate	10 U	10	3.3	1	06/28/21 16:33	6/24/21	
Dibenz(a,h)anthracene	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
Dibenzofuran	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
Diethyl Phthalate	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
Dimethyl Phthalate	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
Fluoranthene	10 U	10	1.5	1	06/28/21 16:33	6/24/21	
Fluorene	10 U	10	1.3	1	06/28/21 16:33	6/24/21	
Hexachlorobenzene	10 U	10	1.6	1	06/28/21 16:33	6/24/21	
Hexachlorobutadiene	10 U	10	1.0	1	06/28/21 16:33	6/24/21	
Hexachlorocyclopentadiene	10 U	10	2.2	1	06/28/21 16:33	6/24/21	
Hexachloroethane	10 U	10	1.1	1	06/28/21 16:33	6/24/21	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	06/28/21 16:33	6/24/21	
Isophorone	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
N-Nitrosodi-n-propylamine	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
N-Nitrosodiphenylamine	10 U	10	2.7	1	06/28/21 16:33	6/24/21	
Naphthalene	10 U	10	1.2	1	06/28/21 16:33	6/24/21	
Nitrobenzene	10 U	10	1.5	1	06/28/21 16:33	6/24/21	
Pentachlorophenol (PCP)	50 U	50	9.7	1	06/28/21 16:33	6/24/21	
Phenanthrene	10 U	10	1.4	1	06/28/21 16:33	6/24/21	
Phenol	10 U	10	1.0	1	06/28/21 16:33	6/24/21	
Pyrene	10 U	10	1.5	1	06/28/21 16:33	6/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	35 - 141	06/28/21 16:33	
2-Fluorobiphenyl	50	31 - 118	06/28/21 16:33	
2-Fluorophenol	42	10 - 105	06/28/21 16:33	
Nitrobenzene-d5	52	31 - 110	06/28/21 16:33	
Phenol-d6	27	10 - 107	06/28/21 16:33	
p-Terphenyl-d14	70	10 - 165	06/28/21 16:33	

Tentatively Identified Compounds

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

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107202-04			RQ2107202-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	46.4	80.0	58	46.1	80.0	58	10-127	<1	30
1,2-Dichlorobenzene	8270D	49.0	80.0	61	47.8	80.0	60	23-130	2	30
1,3-Dichlorobenzene	8270D	49.5	80.0	62	45.6	80.0	57	21-90	8	30
1,4-Dichlorobenzene	8270D	47.6	80.0	60	45.2	80.0	56	10-124	7	30
2,4,5-Trichlorophenol	8270D	55.4	80.0	69	54.3	80.0	68	48-134	1	30
2,4,6-Trichlorophenol	8270D	54.1	80.0	68	55.8	80.0	70	44-135	3	30
2,4-Dichlorophenol	8270D	54.1	80.0	68	53.1	80.0	66	48-127	3	30
2,4-Dimethylphenol	8270D	52.1	80.0	65	47.6	80.0	59	35-99	10	30
2,4-Dinitrophenol	8270D	60.5	80.0	76	62.1	80.0	78	21-154	3	30
2,4-Dinitrotoluene	8270D	65.8	80.0	82	68.1	80.0	85	54-130	4	30
2,6-Dinitrotoluene	8270D	71.5	80.0	89	70.3	80.0	88	51-127	1	30
2-Chloronaphthalene	8270D	52.3	80.0	65	53.6	80.0	67	40-108	3	30
2-Chlorophenol	8270D	48.8	80.0	61	47.2	80.0	59	42-112	3	30
2-Methylnaphthalene	8270D	52.8	80.0	66	52.2	80.0	65	34-102	2	30
2-Methylphenol	8270D	50.5	80.0	63	47.1	80.0	59	47-100	7	30
2-Nitroaniline	8270D	62.8	80.0	78	69.1	80.0	86	52-133	10	30
2-Nitrophenol	8270D	58.7	80.0	73	56.1	80.0	70	43-131	4	30
3,3'-Dichlorobenzidine	8270D	69.8	80.0	87	70.0	80.0	87	43-126	<1	30
3- and 4-Methylphenol Coelution	8270D	48.2	80.0	60	47.7	80.0	60	40-92	<1	30
3-Nitroaniline	8270D	58.7	80.0	73	60.4	80.0	75	42-111	3	30
4,6-Dinitro-2-methylphenol	8270D	70.3	80.0	88	70.7	80.0	88	36-152	<1	30
4-Bromophenyl Phenyl Ether	8270D	62.0	80.0	78	63.0	80.0	79	48-114	1	30
4-Chloro-3-methylphenol	8270D	56.3	80.0	70	56.2	80.0	70	52-113	<1	30
4-Chloroaniline	8270D	54.9	80.0	69	57.8	80.0	72	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	56.1	80.0	70	58.2	80.0	73	51-107	4	30
4-Nitroaniline	8270D	62.7	80.0	78	61.3	80.0	77	54-133	1	30
4-Nitrophenol	8270D	32.9 J	80.0	41	35.0 J	80.0	44	10-126	7	30
Acenaphthene	8270D	56.3	80.0	70	57.0	80.0	71	52-107	1	30
Acenaphthylene	8270D	61.2	80.0	76	61.9	80.0	77	55-109	1	30
Anthracene	8270D	64.2	80.0	80	64.9	80.0	81	55-116	1	30
Benz(a)anthracene	8270D	62.5	80.0	78	63.6	80.0	80	61-121	3	30
Benzo(a)pyrene	8270D	71.8	80.0	90	73.4	80.0	92	44-114	2	30
Benzo(b)fluoranthene	8270D	59.8	80.0	75	62.2	80.0	78	62-115	4	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107202-04			RQ2107202-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	70.9	80.0	89	75.8	80.0	95	63-136	7	30
Benzo(k)fluoranthene	8270D	63.7	80.0	80	66.9	80.0	84	49-133	5	30
Benzoic Acid	8270D	73.2	120	61	68.8	120	57	10-94	7	30
Benzyl Alcohol	8270D	55.3	80.0	69	57.7	80.0	72	31-109	4	30
2,2'-Oxybis(1-chloropropane)	8270D	52.9	80.0	66	54.9	80.0	69	32-122	4	30
Bis(2-chloroethoxy)methane	8270D	55.8	80.0	70	54.4	80.0	68	55-110	3	30
Bis(2-chloroethyl) Ether	8270D	50.9	80.0	64	49.9	80.0	62	46-102	3	30
Bis(2-ethylhexyl) Phthalate	8270D	75.6	80.0	94	74.8	80.0	94	51-132	<1	30
Butyl Benzyl Phthalate	8270D	69.2	80.0	86	70.6	80.0	88	41-148	2	30
Chrysene	8270D	62.5	80.0	78	63.0	80.0	79	57-118	1	30
Di-n-butyl Phthalate	8270D	80.6	80.0	101	79.9	80.0	100	57-128	<1	30
Di-n-octyl Phthalate	8270D	74.0	80.0	93	75.0	80.0	94	62-124	1	30
Dibenz(a,h)anthracene	8270D	66.8	80.0	84	69.5	80.0	87	54-135	4	30
Dibenzofuran	8270D	58.4	80.0	73	58.8	80.0	74	55-110	1	30
Diethyl Phthalate	8270D	55.8	80.0	70	58.2	80.0	73	53-113	4	30
Dimethyl Phthalate	8270D	62.3	80.0	78	62.9	80.0	79	51-112	1	30
Fluoranthene	8270D	69.6	80.0	87	71.7	80.0	90	66-127	3	30
Fluorene	8270D	60.3	80.0	75	60.2	80.0	75	54-106	<1	30
Hexachlorobenzene	8270D	57.4	80.0	72	62.9	80.0	79	53-123	9	30
Hexachlorobutadiene	8270D	48.3	80.0	60	49.3	80.0	62	16-95	3	30
Hexachlorocyclopentadiene	8270D	21.2	80.0	26	22.5	80.0	28	10-99	7	30
Hexachloroethane	8270D	48.4	80.0	61	47.2	80.0	59	15-92	3	30
Indeno(1,2,3-cd)pyrene	8270D	64.6	80.0	81	69.5	80.0	87	62-137	7	30
Isophorone	8270D	55.9	80.0	70	57.1	80.0	71	50-116	1	30
N-Nitrosodi-n-propylamine	8270D	54.6	80.0	68	56.1	80.0	70	49-115	3	30
N-Nitrosodiphenylamine	8270D	72.8	80.0	91	73.2	80.0	92	45-123	1	30
Naphthalene	8270D	51.9	80.0	65	50.4	80.0	63	38-99	3	30
Nitrobenzene	8270D	54.5	80.0	68	55.5	80.0	69	46-108	1	30
Pentachlorophenol (PCP)	8270D	69.2	80.0	87	72.9	80.0	91	29-164	4	30
Phenanthrene	8270D	61.9	80.0	77	61.8	80.0	77	58-118	<1	30
Phenol	8270D	27.1	80.0	34	28.2	80.0	35	10-113	3	30
Pyrene	8270D	66.6	80.0	83	66.7	80.0	83	61-122	<1	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107258-04			RQ2107258-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	49.9	80.0	62	53.3	80.0	67	10-127	8	30
1,2-Dichlorobenzene	8270D	48.0	80.0	60	51.0	80.0	64	23-130	6	30
1,3-Dichlorobenzene	8270D	46.3	80.0	58	49.0	80.0	61	21-90	5	30
1,4-Dichlorobenzene	8270D	46.1	80.0	58	49.3	80.0	62	10-124	7	30
2,4,5-Trichlorophenol	8270D	68.2	80.0	85	72.3	80.0	90	48-134	6	30
2,4,6-Trichlorophenol	8270D	64.4	80.0	81	67.0	80.0	84	44-135	4	30
2,4-Dichlorophenol	8270D	57.6	80.0	72	61.6	80.0	77	48-127	7	30
2,4-Dimethylphenol	8270D	54.6	80.0	68	57.5	80.0	72	35-99	6	30
2,4-Dinitrophenol	8270D	82.1	80.0	103	87.4	80.0	109	21-154	6	30
2,4-Dinitrotoluene	8270D	70.1	80.0	88	71.6	80.0	89	54-130	1	30
2,6-Dinitrotoluene	8270D	76.2	80.0	95	80.4	80.0	101	51-127	6	30
2-Chloronaphthalene	8270D	57.7	80.0	72	62.5	80.0	78	40-108	8	30
2-Chlorophenol	8270D	51.7	80.0	65	54.3	80.0	68	42-112	5	30
2-Methylnaphthalene	8270D	55.9	80.0	70	58.1	80.0	73	34-102	4	30
2-Methylphenol	8270D	56.9	80.0	71	57.9	80.0	72	47-100	1	30
2-Nitroaniline	8270D	62.5	80.0	78	66.4	80.0	83	52-133	6	30
2-Nitrophenol	8270D	54.7	80.0	68	58.6	80.0	73	43-131	7	30
3,3'-Dichlorobenzidine	8270D	71.9	80.0	90	75.3	80.0	94	43-126	4	30
3- and 4-Methylphenol Coelution	8270D	54.2	80.0	68	57.7	80.0	72	40-92	6	30
3-Nitroaniline	8270D	63.7	80.0	80	64.4	80.0	80	42-111	<1	30
4,6-Dinitro-2-methylphenol	8270D	73.9	80.0	92	77.5	80.0	97	36-152	5	30
4-Bromophenyl Phenyl Ether	8270D	77.8	80.0	97	83.5	80.0	104	48-114	7	30
4-Chloro-3-methylphenol	8270D	59.6	80.0	75	63.4	80.0	79	52-113	5	30
4-Chloroaniline	8270D	64.1	80.0	80	61.7	80.0	77	44-109	4	30
4-Chlorophenyl Phenyl Ether	8270D	67.4	80.0	84	70.0	80.0	87	51-107	4	30
4-Nitroaniline	8270D	61.9	80.0	77	62.6	80.0	78	54-133	1	30
4-Nitrophenol	8270D	36.9 J	80.0	46	41.8 J	80.0	52	10-126	12	30
Acenaphthene	8270D	61.1	80.0	76	65.0	80.0	81	52-107	6	30
Acenaphthylene	8270D	66.7	80.0	83	71.3	80.0	89	55-109	7	30
Anthracene	8270D	71.4	80.0	89	73.9	80.0	92	55-116	3	30
Benz(a)anthracene	8270D	73.1	80.0	91	73.2	80.0	91	61-121	<1	30
Benzo(a)pyrene	8270D	80.9	80.0	101	79.3	80.0	99	44-114	2	30
Benzo(b)fluoranthene	8270D	72.8	80.0	91	73.2	80.0	91	62-115	<1	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107258-04			RQ2107258-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	80.0	80.0	100	80.0	80.0	100	63-136	<1	30
Benzo(k)fluoranthene	8270D	78.9	80.0	99	79.4	80.0	99	49-133	<1	30
Benzoic Acid	8270D	67.2	120	56	69.1	120	58	10-94	4	30
Benzyl Alcohol	8270D	62.5	80.0	78	64.5	80.0	81	31-109	4	30
2,2'-Oxybis(1-chloropropane)	8270D	57.4	80.0	72	61.0	80.0	76	32-122	5	30
Bis(2-chloroethoxy)methane	8270D	71.3	80.0	89	77.9	80.0	97	55-110	9	30
Bis(2-chloroethyl) Ether	8270D	56.7	80.0	71	59.8	80.0	75	46-102	5	30
Bis(2-ethylhexyl) Phthalate	8270D	74.4	80.0	93	73.8	80.0	92	51-132	1	30
Butyl Benzyl Phthalate	8270D	73.2	80.0	92	73.9	80.0	92	41-148	<1	30
Chrysene	8270D	75.9	80.0	95	75.5	80.0	94	57-118	1	30
Di-n-butyl Phthalate	8270D	89.5	80.0	112	92.8	80.0	116	57-128	4	30
Di-n-octyl Phthalate	8270D	75.2	80.0	94	75.2	80.0	94	62-124	<1	30
Dibenz(a,h)anthracene	8270D	79.7	80.0	100	79.5	80.0	99	54-135	1	30
Dibenzofuran	8270D	64.4	80.0	81	67.7	80.0	85	55-110	5	30
Diethyl Phthalate	8270D	63.3	80.0	79	65.1	80.0	81	53-113	3	30
Dimethyl Phthalate	8270D	71.8	80.0	90	74.4	80.0	93	51-112	3	30
Fluoranthene	8270D	86.0	80.0	108	87.7	80.0	110	66-127	2	30
Fluorene	8270D	66.6	80.0	83	69.1	80.0	86	54-106	4	30
Hexachlorobenzene	8270D	83.8	80.0	105	83.4	80.0	104	53-123	<1	30
Hexachlorobutadiene	8270D	50.2	80.0	63	51.9	80.0	65	16-95	3	30
Hexachlorocyclopentadiene	8270D	26.2	80.0	33	29.5	80.0	37	10-99	11	30
Hexachloroethane	8270D	42.6	80.0	53	45.8	80.0	57	15-92	7	30
Indeno(1,2,3-cd)pyrene	8270D	77.6	80.0	97	77.0	80.0	96	62-137	1	30
Isophorone	8270D	58.7	80.0	73	64.7	80.0	81	50-116	10	30
N-Nitrosodi-n-propylamine	8270D	52.6	80.0	66	56.9	80.0	71	49-115	7	30
N-Nitrosodiphenylamine	8270D	75.6	80.0	95	81.7	80.0	102	45-123	7	30
Naphthalene	8270D	53.5	80.0	67	57.8	80.0	72	38-99	7	30
Nitrobenzene	8270D	55.5	80.0	69	60.1	80.0	75	46-108	8	30
Pentachlorophenol (PCP)	8270D	105	80.0	131	106	80.0	133	29-164	2	30
Phenanthrene	8270D	70.8	80.0	89	72.6	80.0	91	58-118	2	30
Phenol	8270D	31.3	80.0	39	33.0	80.0	41	10-113	5	30
Pyrene	8270D	75.5	80.0	94	75.6	80.0	94	61-122	<1	30

Semivolatile Organic Compounds by GC

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) **Service Request:** R2106122

Project: Love Canal:292-402-D02-3100/9954 Annual Long Term

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
WG-9954-061721-SG-037	R2106122-001	16	44
WG-9954-061721-SG-040	R2106122-002	38	66
WG-9954-061721-SG-041	R2106122-003	38	57
WG-9954-061721-SG-039	R2106122-004	47	53
WG-9954-061721-SG-036	R2106122-005	44	48
WG-9954-061721-SG-038	R2106122-007	32	53
WG-9954-061721-SG-042	R2106122-008	38	51
WG-9954-061721-SG-043	R2106122-009	30	48
WG-9954-061721-SG-044	R2106122-010	19	50
WG-9954-061721-SG-045	R2106122-011	18	50
Method Blank	RQ2107126-05	45	31
Method Blank	RQ2107126-05	49	33
Method Blank	RQ2107209-01	52	58
Method Blank	RQ2107209-01	50	60
Lab Control Sample	RQ2107126-06	61	45
Lab Control Sample	RQ2107126-06	65	46
Duplicate Lab Control Sample	RQ2107126-07	53	42
Duplicate Lab Control Sample	RQ2107126-07	58	44
Lab Control Sample	RQ2107209-02	53	47
Lab Control Sample	RQ2107209-02	52	52
Duplicate Lab Control Sample	RQ2107209-03	56	51
Duplicate Lab Control Sample	RQ2107209-03	52	51

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/29/21 19:44	6/22/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Aldrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Dieldrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endrin	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Heptachlor	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/29/21 19:44	6/22/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
beta-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
delta-BHC	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/29/21 19:44	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	45	10 - 164	06/29/21 19:44	
Tetrachloro-m-xylene	31	10 - 147	06/29/21 19:44	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/30/21 17:56	6/22/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Aldrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Dieldrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endrin	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Heptachlor	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
Toxaphene	0.50 U	0.50	0.50	1	06/30/21 17:56	6/22/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
beta-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
delta-BHC	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/30/21 17:56	6/22/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 164	06/30/21 17:56	
Tetrachloro-m-xylene	33	10 - 147	06/30/21 17:56	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**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	06/24/21 22:45	6/23/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Aldrin	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Dieldrin	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endrin	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Heptachlor	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/24/21 22:45	6/23/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
beta-BHC	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
delta-BHC	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/24/21 22:45	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 164	06/24/21 22:45	
Tetrachloro-m-xylene	58	10 - 147	06/24/21 22:45	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**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	06/25/21 21:41	6/23/21	
4,4'-DDE	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
4,4'-DDT	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Aldrin	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Dieldrin	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endosulfan I	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endosulfan II	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endrin	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Endrin Ketone	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Heptachlor	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Methoxychlor	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
Toxaphene	0.50 U	0.50	0.50	1	06/25/21 21:41	6/23/21	
alpha-BHC	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
alpha-Chlordane	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
beta-BHC	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
delta-BHC	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	
gamma-Chlordane	0.050 U	0.050	0.020	1	06/25/21 21:41	6/23/21	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 164	06/25/21 21:41	
Tetrachloro-m-xylene	60	10 - 147	06/25/21 21:41	

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/29/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107126-06			RQ2107126-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.264	0.400	66	0.227	0.400	57	42-159	15	30
4,4'-DDE	8081B	0.257	0.400	64	0.225	0.400	56	47-147	13	30
4,4'-DDT	8081B	0.291	0.400	73	0.247	0.400	62	41-149	16	30
Aldrin	8081B	0.189	0.400	47	0.171	0.400	43	22-137	10	30
Dieldrin	8081B	0.272	0.400	68	0.235	0.400	59	52-144	14	30
Endosulfan I	8081B	0.264	0.400	66	0.227	0.400	57	52-136	15	30
Endosulfan II	8081B	0.276	0.400	69	0.237	0.400	59	57-138	15	30
Endosulfan Sulfate	8081B	0.288	0.400	72	0.248	0.400	62	34-156	15	30
Endrin	8081B	0.290	0.400	72	0.250	0.400	63	56-143	15	30
Endrin Ketone	8081B	0.288	0.400	72	0.247	0.400	62	59-143	16	30
Heptachlor	8081B	0.223	0.400	56	0.208	0.400	52	32-141	7	30
Heptachlor Epoxide	8081B	0.271	0.400	68	0.236	0.400	59	51-143	14	30
Methoxychlor	8081B	0.310	0.400	78	0.266	0.400	66	56-149	16	30
alpha-BHC	8081B	0.257	0.400	64	0.224	0.400	56	36-151	14	30
alpha-Chlordane	8081B	0.262	0.400	65	0.228	0.400	57	50-139	14	30
beta-BHC	8081B	0.292	0.400	73	0.254	0.400	63	55-149	14	30
delta-BHC	8081B	0.277	0.400	69	0.237	0.400	59	29-159	16	30
gamma-BHC (Lindane)	8081B	0.266	0.400	67	0.230	0.400	58	41-149	15	30
gamma-Chlordane	8081B	0.248	0.400	62	0.222	0.400	55	50-140	11	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2107209-02			RQ2107209-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.238	0.400	59	0.254	0.400	63	42-159	7	30
4,4'-DDE	8081B	0.235	0.400	59	0.252	0.400	63	47-147	7	30
4,4'-DDT	8081B	0.268	0.400	67	0.287	0.400	72	41-149	7	30
Aldrin	8081B	0.185	0.400	46	0.201	0.400	50	22-137	8	30
Dieldrin	8081B	0.245	0.400	61	0.263	0.400	66	52-144	7	30
Endosulfan I	8081B	0.236	0.400	59	0.254	0.400	63	52-136	7	30
Endosulfan II	8081B	0.248	0.400	62	0.267	0.400	67	57-138	7	30
Endosulfan Sulfate	8081B	0.266	0.400	66	0.286	0.400	72	34-156	7	30
Endrin	8081B	0.261	0.400	65	0.279	0.400	70	56-143	7	30
Endrin Ketone	8081B	0.261	0.400	65	0.279	0.400	70	59-143	7	30
Heptachlor	8081B	0.218	0.400	55	0.236	0.400	59	32-141	8	30
Heptachlor Epoxide	8081B	0.245	0.400	61	0.263	0.400	66	51-143	7	30
Methoxychlor	8081B	0.273	0.400	68	0.293	0.400	73	56-149	7	30
alpha-BHC	8081B	0.241	0.400	60	0.256	0.400	64	36-151	6	30
alpha-Chlordane	8081B	0.241	0.400	60	0.258	0.400	65	50-139	7	30
beta-BHC	8081B	0.254	0.400	64	0.274	0.400	69	55-149	8	30
delta-BHC	8081B	0.246	0.400	61	0.264	0.400	66	29-159	7	30
gamma-BHC (Lindane)	8081B	0.236	0.400	59	0.255	0.400	64	41-149	8	30
gamma-Chlordane	8081B	0.231	0.400	58	0.248	0.400	62	50-140	7	30

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
WG-9954-061721-SG-037	R2106122-001	16	48
WG-9954-061721-SG-040	R2106122-002	41	57
WG-9954-061721-SG-041	R2106122-003	54	51
WG-9954-061721-SG-039	R2106122-004	38	43
WG-9954-061721-SG-036	R2106122-005	32	35
WG-9954-061721-SG-038	R2106122-007	24	44
WG-9954-061721-SG-042	R2106122-008	32	36
WG-9954-061721-SG-043	R2106122-009	23	31
WG-9954-061721-SG-044	R2106122-010	14	37
WG-9954-061721-SG-045	R2106122-011	13	38
Method Blank	RQ2107126-05	48	32
Method Blank	RQ2107209-01	40	47
Lab Control Sample	RQ2107126-06	48	49
Duplicate Lab Control Sample	RQ2107126-07	58	48
Lab Control Sample	RQ2107209-02	41	38
Duplicate Lab Control Sample	RQ2107209-03	44	36

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107126-05	**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	06/24/21 14:51	6/22/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/24/21 14:51	6/22/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/24/21 14:51	6/22/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 152	06/24/21 14:51	
Tetrachloro-m-xylene	32	14 - 129	06/24/21 14:51	

Analytical Report

Client:	GHD (Formerly Conestoga-Rovers & Associates)	**Service Request:**	R2106122
Project:	Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2107209-01	**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	06/28/21 12:43	6/23/21	
Aroclor 1221	2.0 U	2.0	1.0	1	06/28/21 12:43	6/23/21	
Aroclor 1232	1.0 U	1.0	0.50	1	06/28/21 12:43	6/23/21	
Aroclor 1242	1.0 U	1.0	0.50	1	06/28/21 12:43	6/23/21	
Aroclor 1248	1.0 U	1.0	0.50	1	06/28/21 12:43	6/23/21	
Aroclor 1254	1.0 U	1.0	0.50	1	06/28/21 12:43	6/23/21	
Aroclor 1260	1.0 U	1.0	0.50	1	06/28/21 12:43	6/23/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	40	10 - 152	06/28/21 12:43	
Tetrachloro-m-xylene	47	14 - 129	06/28/21 12:43	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/24/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample RQ2107126-06			**Duplicate Lab Control Sample** RQ2107126-07				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.64	4.00	66	2.61	4.00	65	49-123	<1	30
Aroclor 1260	8082A	2.61	4.00	65	2.99	4.00	75	30-120	14	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: GHD (Formerly Conestoga-Rovers & Associates) **Service Request:** R2106122
Project: Love Canal:292-402-D02-3100/9954 Annual Long Term Monitoring **Date Analyzed:** 06/28/21
Sample Matrix: Water

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

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2107209-02			RQ2107209-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	2.03	4.00	51	2.03	4.00	51	49-123	<1	30
Aroclor 1260	8082A	2.06	4.00	52	2.26	4.00	56	30-120	9	30

Appendix F

Data Validation Memorandum

Memorandum

August 18, 2021

To:	Joe Branch [joseph_branch@oxy.com]	Ref. No.:	11225661
From:	Kathy Willy/cs/3	Tel:	716-205-1942
cc:	John Pentilchuk, Maggie Popek		

Subject: **Analytical Results and Full Validation**
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

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 2021. 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 Spectrometer (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 and stability with the exception of some SVOCs which demonstrated some variability (see 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.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of a low concentration of chloromethane in one method blank. All associated sample results were non-detect and no qualification of the data was required.

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 assessed surrogate recoveries were within acceptable limits.

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. Most LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision. Samples associated with outlying recoveries have been qualified as follows:

i) A positive sample result associated with a high LCS recovery was qualified as estimated to reflect the implied high bias. Non-detect results would not have been impacted.

ii) Sample results associated with a low LCS recovery were qualified as estimated to reflect the implied low bias.

A summary of qualified results are presented in Table 5.

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 lab performed additional MS/MSD analyses internally.

The MS/MSD samples were spiked with all compounds of interest. Most percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision. Sample results associated with outlying MS/MSD recoveries or RPDs were qualified as follows:

i) Sample results associated with low recoveries were qualified as estimated to reflect the implied low bias.

ii) Positive sample results associated with high RPD values were qualified as estimated to reflect the indicated variability. Non-detect sample results would not have been impacted.

A summary of qualified results is presented in Table 6.

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 low concentrations of bromomethane and chloromethane. All associated sample results with concentrations similar to that found in the trip blanks were qualified as non-detect. Associated sample results that were either non-detect, or significantly greater than that found in the blanks would not have been impacted and no qualification of the data was required. A summary of qualified results is presented in Table 7.

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. All results were non-detect for the compounds of interest with the exception of a low concentration of alpha-BHC in one blank. Associated sample results with concentrations similar to that found in the blank were qualified as non-detect. Associated sample results that were either non-detect, or significantly greater than that found in the blank would not have been impacted and no qualification of the data was required. A summary of qualified results is presented in Table 8.

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 met the above criteria, demonstrating acceptable sampling and analytical precision with the exception of delta-BHC and gamma-BHC (lindane) which showed some variability in one field duplicate sample set. A summary of qualified results is presented in Table 9.

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) with the exception of the beta-BHC results in one sample which demonstrated some variability between the two columns (see Table 10).

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 2021

					Analysis/Parameters				
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Comments**
WG-9954-061121-SG-024	3257	Groundwater	06/11/2021	11:55	X	X	X	X	
WG-9954-061721-SG-038	5221	Groundwater	06/17/2021	10:15	X	X	X	X	
WG-9954-061621-SG-035	6209	Groundwater	06/16/2021	14:55	X	X	X	X	
WG-9954-061721-SG-044	7120	Groundwater	06/17/2021	14:35	X	X	X	X	
WG-9954-061721-SG-045	7120	Groundwater	06/17/2021	14:35	X	X	X	X	Field duplicate of sample WG-9954-061721-SG-044
WG-9954-060821-SG-001	7130	Groundwater	06/08/2021	10:35	X	X	X	X	
WG-9954-060821-SG-002	7132	Groundwater	06/08/2021	11:15	X	X	X	X	
WG-9954-060821-SG-003	7155	Groundwater	06/08/2021	11:50	X	X	X	X	
WG-9954-061421-SG-026	7161	Groundwater	06/14/2021	13:30	X	X	X	X	
WG-9954-061021-SG-016	7205	Groundwater	06/10/2021	10:55	X	X	X	X	
WG-9954-061121-SG-023	8106	Groundwater	06/11/2021	11:00	X	X	X	X	
WG-9954-060821-SG-004	8110	Groundwater	06/08/2021	12:25	X	X	X	X	
WG-9954-060821-SG-005	8120	Groundwater	06/08/2021	13:05	X	X	X	X	
WG-9954-060821-SG-006	8130	Groundwater	06/08/2021	13:50	X	X	X	X	
WG-9954-060921-SG-008	8140	Groundwater	06/09/2021	09:45	X	X	X	X	
WG-9954-061621-SG-033	8210	Groundwater	06/16/2021	11:50	X	X	X	X	
WG-9954-060921-SG-009	9110	Groundwater	06/09/2021	10:15	X	X	X	X	
WG-9954-060921-SG-010	9115	Groundwater	06/09/2021	11:00	X	X	X	X	
WG-9954-060921-SG-011	9115	Groundwater	06/09/2021	11:00	X	X	X	X	Field duplicate of sample WG-9954-060921-SG-010
WG-9954-060921-SG-012	9120	Groundwater	06/09/2021	11:45	X	X	X	X	
WG-9954-060921-SG-013	9125	Groundwater	06/09/2021	12:25	X	X	X	X	
WG-9954-060921-SG-014	9130	Groundwater	06/09/2021	13:05	X	X	X	X	
WG-9954-061121-SG-020	9140	Groundwater	06/11/2021	09:15	X	X	X	X	
WG-9954-061121-SG-021	9140	Groundwater	06/11/2021	09:15	X	X	X	X	Field duplicate of sample WG-9954-061121-SG-020
WG-9954-061621-SG-032	9205	Groundwater	06/16/2021	11:00	X	X	X	X	
WG-9954-061521-SG-031	9210	Groundwater	06/15/2021	14:00	X	X	X	X	
WG-9954-061121-SG-022	10105	Groundwater	06/11/2021	10:15	X	X	X	X	
WG-9954-060921-SG-015	10135	Groundwater	06/09/2021	13:45	X	X	X	X	
WG-9954-061721-SG-039	10147	Groundwater	06/17/2021	10:45	X	X	X	X	
WG-9954-061721-SG-036	10174A	Groundwater	06/17/2021	08:35	X	X	X	X	
WG-9954-060921-SG-007	10178A	Groundwater	06/09/2021	14:00	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 2021

					Analysis/Parameters				
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Comments**
WG-9954-061421-SG-025	10205	Groundwater	06/14/2021	09:45	X	X	X	X	
WG-9954-061721-SG-037	10210A	Groundwater	06/17/2021	09:05	X	X	X	X	
WG-9954-061421-SG-027	10210B	Groundwater	06/14/2021	14:30	X	X	X	X	
WG-9954-061521-SG-028	10210C	Groundwater	06/15/2021	11:25	X	X	X	X	
WG-9954-061521-SG-029	10210C	Groundwater	06/15/2021	11:25	X	X	X	X	Field duplicate of sample WG-9954-061521-SG-028
WG-9954-061521-SG-030	10215	Groundwater	06/15/2021	13:00	X	X	X	X	
WG-9954-061721-SG-040	10225A	Groundwater	06/17/2021	11:00	X	X	X	X	
WG-9954-061721-SG-041	10225B	Groundwater	06/17/2021	11:20	X	X	X	X	
WG-9954-061621-SG-034	10225C	Groundwater	06/16/2021	13:25	X	X	X	X	
WG-9954-061021-SG-019	10270	Groundwater	06/10/2021	13:45	X	X	X	X	
WG-9954-061021-SG-018	10272	Groundwater	06/10/2021	12:50	X	X	X	X	
WG-9954-061021-SG-017	10278	Groundwater	06/10/2021	11:55	X	X	X	X	
WG-9954-061721-SG-043	MW-01	Groundwater	06/17/2021	13:55	X	X	X	X	
WG-9954-061721-SG-042	MW-02	Groundwater	06/17/2021	12:55	X	X	X	X	
RB-9954-060921-SG-001	-	Water	06/09/2021	14:30	X	X	X	X	Rinse Blank
RB-9954-061421-SG-002	-	Water	06/14/2021	15:10	X	X	X	X	Rinse Blank
TB-9954-060821-SG-001	-	Water	06/08/2021	-	X				Trip Blank
TB-9952-060921-SG-002	-	Water	06/09/2021	-	X				Trip Blank
TB-9954-061021-SG-003	-	Water	06/10/2021	-	X				Trip Blank
TB-9954-061121-SG-004	-	Water	06/11/2021	-	X				Trip Blank
TB-9954-061421-SG-005	-	Water	06/14/2021	-	X				Trip Blank
TB-9954-061621-SG-006	-	Water	06/16/2021	-	X				Trip Blank
TB-9954-061721-SG-007	-	Water	06/17/2021	-	X				Trip Blank

Notes:

VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
PCBs - Polychlorinated Biphenyls
- - Not applicable

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	3257	5221	6209	7120	7120	7130	7132	7155
	Sample Name:	WG-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003
	Sample Date:	06/11/2021	06/17/2021	06/16/2021	06/17/2021	06/17/2021	06/08/2021	06/08/2021	06/08/2021
						Duplicate			
Parameters	**Unit**								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	25 U	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	25 U	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	25 U	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	25 U	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	25 U	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	25 U	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	25 U	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	1.0 J	50 U	0.96 J	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	25 U	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	25 U	5.0 U	0.88 J	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	0.51 J	3.2 J	31 J	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	25 U	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	25 U	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	25 U	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	25 U	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	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	25 U	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	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	25 U	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	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	25 U	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	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	**3257**	**5221**	**6209**	**7120**	**7120**	**7130**	**7132**	**7155**
	Sample Name:	**WG-9954-061121-SG-024**	**WG-9954-061721-SG-038**	**WG-9954-061621-SG-035**	**WG-9954-061721-SG-044**	**WG-9954-061721-SG-045**	**WG-9954-060821-SG-001**	**WG-9954-060821-SG-002**	**WG-9954-060821-SG-003**
	Sample Date:	**06/11/2021**	**06/17/2021**	**06/16/2021**	**06/17/2021**	**06/17/2021**	**06/08/2021**	**06/08/2021**	**06/08/2021**
						Duplicate			
Parameters	**Unit**								
Volatile Organic Compounds, TICs									
2-(Methylthio)-propane	µg/L	--	--	--	--	--	--	--	--
6-Methyl-5-hepten-2-one	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl sulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl trisulfide	µg/L	--	--	--	--	--	--	--	--
Furan, tetrahydro-2,5-dimethyl	µg/L	--	--	--	--	--	--	--	--
Hexanal	µg/L	--	--	--	--	--	--	--	--
Methanethiol	µg/L	--	--	--	--	--	--	--	--
Methoxytrimethyl-silane	µg/L	--	--	27.0 JN	--	--	--	--	--
Methylthioethane	µg/L	--	--	--	--	--	--	--	--
Octanal	µg/L	--	--	--	--	--	--	--	--
Sulfur dioxide (SO2)	µg/L	39.3 JN	66.0 JN	140.2 JN	23.8 JN	15.4 JN	--	10.0 JN	6.8 JN
Tetrahydro-2-methyl-furan	µg/L	--	--	--	--	--	--	--	--
Trimethylsilanol	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	8.7 J	27.1 J	--	--	--	--	--	19.0 J
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	9.1 U	9.1 U	9.1 U	9.1 U
3&4-Methylphenol	µg/L	3.1 J	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	3257	5221	6209	7120	7120	7130	7132	7155
	Sample Name:	WG-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003
	Sample Date:	06/11/2021	06/17/2021	06/16/2021	06/17/2021	06/17/2021	06/08/2021	06/08/2021	06/08/2021
						Duplicate			
Parameters	**Unit**								
Semivolatile Organic Compounds									
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	9.1 U	9.1 UJ	9.1 UJ	9.1 UJ
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	9.1 U	9.1 UJ	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	3257	5221	6209	7120	7120	7130	7132	7155
	Sample Name:	WG-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003
	Sample Date:	06/11/2021	06/17/2021	06/16/2021	06/17/2021	06/17/2021	06/08/2021	06/08/2021	06/08/2021
						Duplicate			
Parameters	**Unit**								
Semivolatile Organic Compounds, TICs									
1-Chloro-2-methyl-benzene	µg/L	--	--	--	--	--	--	--	--
2,3,6-Trichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,4-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,6-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2-Chlorobenzenemethanol	µg/L	--	--	--	--	--	--	--	--
3,4-Dichlorophenol	µg/L	--	--	--	--	--	--	--	--
3-Benzoylbenzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Benzoyl-(rel)-benzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Chlorobenzoic acid	µg/L	--	--	--	--	--	--	--	--
Benzeneacetic acid	µg/L	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	--	--	--	--	--	--	--	--
Cyclohexanecarboxylic acid	µg/L	--	--	--	--	--	--	--	--
Cyclohexanol	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dodecanoic acid	µg/L	--	--	--	--	--	--	--	--
Heptane	µg/L	--	--	--	--	--	--	--	--
Hexadecanoic acid	µg/L	--	--	--	--	--	--	--	--
N-Heptane	µg/L	--	--	--	--	--	--	28 JN	25 JN
p-Chlorobenzyl alcohol	µg/L	--	--	--	--	--	--	--	--
Sulfur	µg/L	9.2 JN	--	--	--	--	--	--	--
Toluene	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	--	17 J	--	4.8 J	21.2 J	48.8 J	--	--
Unknown hydrocarbon	µg/L	--	--	--	--	--	85 J	--	--
PCBs									
Aroclor-1016 (PCB-1016)	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
Aroclor-1221 (PCB-1221)	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
Aroclor-1232 (PCB-1232)	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
Aroclor-1242 (PCB-1242)	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
Aroclor-1248 (PCB-1248)	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
Aroclor-1254 (PCB-1254)	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
Aroclor-1260 (PCB-1260)	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

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	3257	5221	6209	7120	7120	7130	7132	7155
	Sample Name:	WG-9954-061121-SG-024	WG-9954-061721-SG-038	WG-9954-061621-SG-035	WG-9954-061721-SG-044	WG-9954-061721-SG-045	WG-9954-060821-SG-001	WG-9954-060821-SG-002	WG-9954-060821-SG-003
	Sample Date:	06/11/2021	06/17/2021	06/16/2021	06/17/2021	06/17/2021	06/08/2021	06/08/2021	06/08/2021
						Duplicate			
Parameters	**Unit**								
Pesticides									
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.045 U	0.078	0.18	0.045 U	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	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	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.045 U	0.28	0.66	0.045 U	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	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	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	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.045 U	0.045 U	0.22	0.045 U	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	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
PCBs - Polychlorinated Biphenyls
-- - Not applicable
JN - Presumptively present at estimated value
TICs - Tentatively Identified Compound
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	7161	7205	8106	8110	8120	8130	8140	8210
	Sample Name:	WG-9954-061421-SG-026	WG-9954-061021-SG-016	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-061621-SG-033
	Sample Date:	06/14/2021	06/10/2021	06/11/2021	06/08/2021	06/08/2021	06/08/2021	06/09/2021	06/16/2021
Parameters	**Unit**								
Volatile Organic Compounds									
1,1,1-Trichloroethane	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
1,1,2,2-Tetrachloroethane	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
1,1,2-Trichloroethane	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
1,1-Dichloroethane	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
1,1-Dichloroethene	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
1,2-Dichloroethane	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
1,2-Dichloropropane	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
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	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	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	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	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	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	3.5 J	10 U	10 U	10 U	10 U	10 U	8.1 J
Carbon tetrachloride	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
Chlorobenzene	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
Chloroethane	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
Chloroform (Trichloromethane)	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
Chloromethane (Methyl chloride)	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	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
Dibromochloromethane	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
Ethylbenzene	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
Methylene chloride	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
Styrene	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
Tetrachloroethene	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
Toluene	µg/L	5.0 U	0.42 J	5.0 U	5.0 U	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	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	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	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	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	5.0 U	5.0 U	5.0 U
Xylenes (total)	µg/L	5.0 U	0.49 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	7161	7205	8106	8110	8120	8130	8140	8210
	Sample Name:	WG-9954-061421-SG-026	WG-9954-061021-SG-016	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-061621-SG-033
	Sample Date:	06/14/2021	06/10/2021	06/11/2021	06/08/2021	06/08/2021	06/08/2021	06/09/2021	06/16/2021
Parameters	**Unit**								
Volatile Organic Compounds, TICs									
2-(Methylthio)-propane	µg/L	--	--	--	--	--	--	--	--
6-Methyl-5-hepten-2-one	µg/L	--	9.2 JN	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl sulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl trisulfide	µg/L	--	--	--	--	--	--	--	--
Furan, tetrahydro-2,5-dimethyl	µg/L	--	--	--	--	--	--	--	--
Hexanal	µg/L	--	--	--	--	--	--	5.0 JN	--
Methanethiol	µg/L	--	--	--	--	--	--	--	--
Methoxytrimethyl-silane	µg/L	--	--	--	--	--	--	--	--
Methylthioethane	µg/L	--	--	--	--	--	--	--	--
Octanal	µg/L	--	--	--	--	--	--	6.4 JN	--
Sulfur dioxide (SO2)	µg/L	--	90.0 JN	--	--	--	--	--	25.1 JN
Tetrahydro-2-methyl-furan	µg/L	--	--	--	--	--	--	--	--
Trimethylsilanol	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	--	--	--	--	--	--	14.3 J	81.9 J
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 UJ	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L	45 UJ	45 U	45 U	45 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	**7161**	**7205**	**8106**	**8110**	**8120**	**8130**	**8140**	**8210**
	Sample Name:	**WG-9954-061421-SG-026**	**WG-9954-061021-SG-016**	**WG-9954-061121-SG-023**	**WG-9954-060821-SG-004**	**WG-9954-060821-SG-005**	**WG-9954-060821-SG-006**	**WG-9954-060921-SG-008**	**WG-9954-061621-SG-033**
	Sample Date:	**06/14/2021**	**06/10/2021**	**06/11/2021**	**06/08/2021**	**06/08/2021**	**06/08/2021**	**06/09/2021**	**06/16/2021**
Parameters	**Unit**								
Semivolatile Organic Compounds									
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	7161	7205	8106	8110	8120	8130	8140	8210
	Sample Name:	WG-9954-061421-SG-026	WG-9954-061021-SG-016	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-061621-SG-033
	Sample Date:	06/14/2021	06/10/2021	06/11/2021	06/08/2021	06/08/2021	06/08/2021	06/09/2021	06/16/2021
Parameters	**Unit**								
Semivolatile Organic Compounds, TICs									
1-Chloro-2-methyl-benzene	µg/L	--	--	--	--	--	--	--	--
2,3,6-Trichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,4-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,6-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2-Chlorobenzenemethanol	µg/L	--	--	--	--	--	--	--	--
3,4-Dichlorophenol	µg/L	--	--	--	--	--	--	--	--
3-Benzoylbenzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Benzoyl-(rel)-benzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Chlorobenzoic acid	µg/L	--	--	--	--	--	--	--	--
Benzeneacetic acid	µg/L	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	--	--	--	--	--	--	--	--
Cyclohexanecarboxylic acid	µg/L	--	--	--	--	--	--	--	--
Cyclohexanol	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dodecanoic acid	µg/L	--	--	--	--	--	--	--	--
Heptane	µg/L	--	--	--	--	--	--	--	--
Hexadecanoic acid	µg/L	--	--	--	--	--	--	--	--
N-Heptane	µg/L	--	--	--	--	27 JN	26 JN	--	--
p-Chlorobenzyl alcohol	µg/L	--	--	--	--	--	--	--	--
Sulfur	µg/L	--	15 JN	--	--	--	--	--	--
Toluene	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	10.2 J	29 J	--	29 J	--	--	--	4.0 J
Unknown hydrocarbon	µg/L	--	--	--	--	--	--	--	--
PCBs									
Aroclor-1016 (PCB-1016)	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
Aroclor-1221 (PCB-1221)	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
Aroclor-1232 (PCB-1232)	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
Aroclor-1242 (PCB-1242)	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
Aroclor-1248 (PCB-1248)	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
Aroclor-1254 (PCB-1254)	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
Aroclor-1260 (PCB-1260)	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

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	7161	7205	8106	8110	8120	8130	8140	8210
	Sample Name:	WG-9954-061421-SG-026	WG-9954-061021-SG-016	WG-9954-061121-SG-023	WG-9954-060821-SG-004	WG-9954-060821-SG-005	WG-9954-060821-SG-006	WG-9954-060921-SG-008	WG-9954-061621-SG-033
	Sample Date:	06/14/2021	06/10/2021	06/11/2021	06/08/2021	06/08/2021	06/08/2021	06/09/2021	06/16/2021
Parameters	**Unit**								
Pesticides									
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.045 U	0.042 J	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.025 J
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.045 U	0.28	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.051
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.045 U	0.090	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.033 J
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
PCBs - Polychlorinated Biphenyls
-- - Not applicable
JN - Presumptively present at estimated value
TICs - Tentatively Identified Compound
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9110	9115	9115	9120	9125	9130	9140	9140
	Sample Name:	WG-9954-060921-SG-009	WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021
	Sample Date:	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/11/2021	06/11/2021
				Duplicate					Duplicate
Parameters	**Unit**								
Volatile Organic Compounds									
1,1,1-Trichloroethane	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
1,1,2,2-Tetrachloroethane	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
1,1,2-Trichloroethane	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
1,1-Dichloroethane	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
1,1-Dichloroethene	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
1,2-Dichloroethane	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
1,2-Dichloropropane	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
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	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	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	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	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	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	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	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.0 J	10 U
Carbon tetrachloride	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
Chlorobenzene	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
Chloroethane	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
Chloroform (Trichloromethane)	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
Chloromethane (Methyl chloride)	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	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
Dibromochloromethane	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
Ethylbenzene	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
Methylene chloride	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
Styrene	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
Tetrachloroethene	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
Toluene	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
trans-1,2-Dichloroethene	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
trans-1,3-Dichloropropene	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
Trichloroethene	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
Vinyl acetate	µg/L	10 U	10 U	10 U	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	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	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9110	9115	9115	9120	9125	9130	9140	9140
	Sample Name:	WG-9954-060921-SG-009	WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021
	Sample Date:	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/11/2021	06/11/2021
				Duplicate					Duplicate
Parameters	**Unit**								
Volatile Organic Compounds, TICs									
2-(Methylthio)-propane	µg/L	--	--	--	--	--	--	--	--
6-Methyl-5-hepten-2-one	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl sulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl trisulfide	µg/L	--	--	--	--	--	--	--	--
Furan, tetrahydro-2,5-dimethyl	µg/L	--	--	--	--	--	--	5.7 JN	5.5 JN
Hexanal	µg/L	--	--	--	--	--	--	--	--
Methanethiol	µg/L	--	--	--	--	--	--	--	--
Methoxytrimethyl-silane	µg/L	--	--	--	--	--	--	--	--
Methylthioethane	µg/L	--	--	--	--	--	--	--	--
Octanal	µg/L	--	--	--	--	--	--	--	--
Sulfur dioxide (SO2)	µg/L	--	--	--	--	--	--	--	--
Tetrahydro-2-methyl-furan	µg/L	--	--	--	--	--	--	60.9 JN	60.5 JN
Trimethylsilanol	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	9.5 J	10.6 J	11.2 J	10.5 J	9.8 J	9.3 J	--	9.5 J
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
2,4,6-Trichlorophenol	µg/L	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 UJ	9.1 U	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9110	9115	9115	9120	9125	9130	9140	9140
	Sample Name:	WG-9954-060921-SG-009	WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021
	Sample Date:	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/11/2021	06/11/2021
				Duplicate					Duplicate
Parameters	**Unit**								
Semivolatile Organic Compounds									
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9110	9115	9115	9120	9125	9130	9140	9140
	Sample Name:	WG-9954-060921-SG-009	WG-9954-060921-SG-010	WG-9954-060921-SG-011	WG-9954-060921-SG-012	WG-9954-060921-SG-013	WG-9954-060921-SG-014	WG-9954-061121-SG-020	WG-9954-061121-SG-021
	Sample Date:	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/09/2021	06/11/2021	06/11/2021
				Duplicate					Duplicate
Parameters	**Unit**								
Semivolatile Organic Compounds, TICs									
1-Chloro-2-methyl-benzene	µg/L	--	--	--	--	--	--	--	--
2,3,6-Trichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,4-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,6-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2-Chlorobenzenemethanol	µg/L	--	--	--	--	--	--	--	--
3,4-Dichlorophenol	µg/L	--	--	--	--	--	--	--	--
3-Benzoylbenzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Benzoyl-(rel)-benzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Chlorobenzoic acid	µg/L	--	--	--	--	--	--	--	--
Benzeneacetic acid	µg/L	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	--	--	--	--	--	--	--	--
Cyclohexanecarboxylic acid	µg/L	--	--	--	--	--	--	--	--
Cyclohexanol	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dodecanoic acid	µg/L	--	--	--	--	--	--	--	--
Heptane	µg/L	--	24 JN	31 JN	--	--	37 JN	--	--
Hexadecanoic acid	µg/L	--	--	--	--	--	--	--	--
N-Heptane	µg/L	--	--	--	--	--	--	--	--
p-Chlorobenzyl alcohol	µg/L	--	--	--	--	--	--	--	--
Sulfur	µg/L	--	--	--	--	--	--	--	--
Toluene	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	--	--	--	40 J	--	8.3 J	58.2 J	60.6 J
Unknown hydrocarbon	µg/L	--	--	--	--	--	--	--	--
PCBs									
Aroclor-1016 (PCB-1016)	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
Aroclor-1221 (PCB-1221)	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
Aroclor-1232 (PCB-1232)	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
Aroclor-1242 (PCB-1242)	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
Aroclor-1248 (PCB-1248)	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
Aroclor-1254 (PCB-1254)	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
Aroclor-1260 (PCB-1260)	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

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

Location ID:		**9110**	**9115**	**9115**	**9120**	**9125**	**9130**	**9140**	**9140**
Sample Name:		**WG-9954-060921-SG-009**	**WG-9954-060921-SG-010**	**WG-9954-060921-SG-011**	**WG-9954-060921-SG-012**	**WG-9954-060921-SG-013**	**WG-9954-060921-SG-014**	**WG-9954-061121-SG-020**	**WG-9954-061121-SG-021**
Sample Date:		**06/09/2021**	**06/09/2021**	**06/09/2021**	**06/09/2021**	**06/09/2021**	**06/09/2021**	**06/11/2021**	**06/11/2021**
				Duplicate					**Duplicate**
Parameters	**Unit**								
Pesticides									
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
PCBs - Polychlorinated Biphenyls
-- - Not applicable
JN - Presumptively present at estimated value
TICs - Tentatively Identified Compound
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9205	9210	10105	10135	10147	10174A	10178A	10205
	Sample Name:	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007	WG-9954-061421-SG-025
	Sample Date:	06/16/2021	06/15/2021	06/11/2021	06/09/2021	06/17/2021	06/17/2021	06/09/2021	06/14/2021
Parameters	**Unit**								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	1000 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	1000 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	1000 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	1000 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	1000 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	1000 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	1000 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	2000 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	2000 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	2000 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	2000 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	6800	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	75 J	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	1000 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	1000 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	12	10 U	10 U	2000 U	1.6 J	0.63 J	10 U	2.6 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	1000 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	2500	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	1000 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	420 J	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	1000 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	1000 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	1000 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	1000 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	1000 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	1000 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	1000 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	1000 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	25000	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	1000 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	1000 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	120 J	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	10 U	10 U	10 U	2000 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	1000 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	1000 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9205	9210	10105	10135	10147	10174A	10178A	10205
	Sample Name:	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007	WG-9954-061421-SG-025
	Sample Date:	06/16/2021	06/15/2021	06/11/2021	06/09/2021	06/17/2021	06/17/2021	06/09/2021	06/14/2021
Parameters	**Unit**								
Volatile Organic Compounds, TICs									
2-(Methylthio)-propane	µg/L	--	--	--	--	--	--	--	--
6-Methyl-5-hepten-2-one	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl sulfide	µg/L	--	--	--	--	--	--	--	--
Dimethyl trisulfide	µg/L	--	--	--	--	--	--	--	--
Furan, tetrahydro-2,5-dimethyl	µg/L	--	--	--	--	--	--	--	--
Hexanal	µg/L	--	--	--	--	--	--	--	--
Methanethiol	µg/L	--	--	--	--	--	--	--	--
Methoxytrimethyl-silane	µg/L	--	--	--	--	--	--	--	--
Methylthioethane	µg/L	--	--	--	--	--	--	--	--
Octanal	µg/L	--	--	--	--	--	--	--	--
Sulfur dioxide (SO2)	µg/L	26.1 JN	5.4 JN	7.1 JN	4456.0 JN	8.2 JN	12.4 JN	--	121.4 JN
Tetrahydro-2-methyl-furan	µg/L	--	--	--	--	--	--	--	--
Trimethylsilanol	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	123.8 J	44.1 J	26.8 J	--	18.5 J	--	10.1 J	--
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	51 J	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	29 J	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	91 U	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	82 J	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	91 U	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	23 J	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	91 U	9.1 U	9.1 U	9.1 UJ	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	9.1 U	9.1 U	140	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 UJ	45 U	450 U	45 U	45 U	45 U	45 UJ
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	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	91 U	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	18 J	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	91 U	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	28 J	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	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	74 J	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	91 U	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	91 U	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	450 U	45 U	45 U	45 U	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	20 J	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	91 U	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	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	450 U	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9205	9210	10105	10135	10147	10174A	10178A	10205
	Sample Name:	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007	WG-9954-061421-SG-025
	Sample Date:	06/16/2021	06/15/2021	06/11/2021	06/09/2021	06/17/2021	06/17/2021	06/09/2021	06/14/2021
Parameters	**Unit**								
Semivolatile Organic Compounds									
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Anthracene	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	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	91 U	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	91 U	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	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	45 U	45 U	45 U	3600	45 U	45 U	45 U	45 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	260	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	91 U	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	18 J	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	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Chrysene	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	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	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Dibenzofuran	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Fluorene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorobutadiene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Isophorone	µg/L	9.1 U	9.1 U	9.1 U	91 U	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	91 U	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	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Naphthalene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	450 U	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U
Phenol	µg/L	9.1 U	9.1 U	9.1 U	40 J	9.1 U	9.1 U	9.1 U	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	91 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	9205	9210	10105	10135	10147	10174A	10178A	10205
	Sample Name:	WG-9954-061621-SG-032	WG-9954-061521-SG-031	WG-9954-061121-SG-022	WG-9954-060921-SG-015	WG-9954-061721-SG-039	WG-9954-061721-SG-036	WG-9954-060921-SG-007	WG-9954-061421-SG-025
	Sample Date:	06/16/2021	06/15/2021	06/11/2021	06/09/2021	06/17/2021	06/17/2021	06/09/2021	06/14/2021
Parameters	**Unit**								
Semivolatile Organic Compounds, TICs									
1-Chloro-2-methyl-benzene	µg/L	--	--	--	4200 JN	--	--	--	--
2,3,6-Trichlorotoluene	µg/L	--	--	--	69 JN	--	--	--	--
2,4-Dichlorotoluene	µg/L	--	--	--	200 JN	--	--	--	--
2,6-Dichlorotoluene	µg/L	--	--	--	220 JN	--	--	--	--
2-Chlorobenzenemethanol	µg/L	--	--	--	740 JN	--	--	--	--
3,4-Dichlorophenol	µg/L	--	--	--	150 JN	--	--	--	--
3-Benzoylbenzoic acid	µg/L	--	--	--	260 JN	--	--	--	--
4-Benzoyl-(rel)-benzoic acid	µg/L	--	--	--	540 JN	--	--	--	--
4-Chlorobenzoic acid	µg/L	--	--	--	9800 JN	--	--	--	--
Benzeneacetic acid	µg/L	--	--	--	61 JN	--	--	--	--
Chlorobenzene	µg/L	--	--	--	630 JN	--	--	--	--
Cyclohexanecarboxylic acid	µg/L	--	--	--	54 JN	--	--	--	--
Cyclohexanol	µg/L	--	--	--	170 JN	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	--	--	--
Dodecanoic acid	µg/L	--	--	--	--	--	--	--	--
Heptane	µg/L	--	--	--	--	--	--	--	--
Hexadecanoic acid	µg/L	--	--	--	--	--	--	--	--
N-Heptane	µg/L	--	--	--	--	--	--	--	--
p-Chlorobenzyl alcohol	µg/L	--	--	--	68 JN	--	--	--	--
Sulfur	µg/L	--	4.9 JN	--	--	--	--	--	--
Toluene	µg/L	--	--	--	6000 JN	--	--	--	--
Unknown	µg/L	8.3 J	3.8 J	--	270 J	4.3 J	4.8 J	27 J	7.8 J
Unknown hydrocarbon	µg/L	--	--	--	--	--	--	--	--
PCBs									
Aroclor-1016 (PCB-1016)	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
Aroclor-1221 (PCB-1221)	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
Aroclor-1232 (PCB-1232)	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
Aroclor-1242 (PCB-1242)	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
Aroclor-1248 (PCB-1248)	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
Aroclor-1254 (PCB-1254)	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
Aroclor-1260 (PCB-1260)	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

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

Location ID:		**9205**	**9210**	**10105**	**10135**	**10147**	**10174A**	**10178A**	**10205**
Sample Name:		**WG-9954-061621-SG-032**	**WG-9954-061521-SG-031**	**WG-9954-061121-SG-022**	**WG-9954-060921-SG-015**	**WG-9954-061721-SG-039**	**WG-9954-061721-SG-036**	**WG-9954-060921-SG-007**	**WG-9954-061421-SG-025**
Sample Date:		**06/16/2021**	**06/15/2021**	**06/11/2021**	**06/09/2021**	**06/17/2021**	**06/17/2021**	**06/09/2021**	**06/14/2021**
Parameters	**Unit**								
Pesticides									
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.45 U	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	0.45 U	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	0.45 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.045 U	0.80	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	21	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	0.45 U	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	6.6	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	8.8	0.045 U	0.045 U	0.045 U	0.045 U
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U	0.45 U	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	0.45 U	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	0.45 U	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	0.45 U	0.045 U	0.045 U	0.045 U	0.045 U
Endrin	µg/L	0.045 U	0.045 U	0.045 U	0.45 U	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	0.45 U	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	4.0	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	0.45 U	0.045 U	0.045 U	0.045 U	0.045 U
Heptachlor	µg/L	0.045 U	0.045 U	0.045 U	0.45 U	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	0.45 U	0.045 U	0.045 U	0.045 U	0.045 U
Methoxychlor	µg/L	0.045 U	0.045 U	0.045 U	0.45 U	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
PCBs - Polychlorinated Biphenyls
-- - Not applicable
JN - Presumptively present at estimated value
TICs - Tentatively Identified Compound
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	10210A	10210B	10210C	10210C	10215	10225A	10225B	10225C
	Sample Name:	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029	WG-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034
	Sample Date:	06/17/2021	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/17/2021	06/17/2021	06/16/2021
				Duplicate	Duplicate				
Parameters	**Unit**								
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	4.0 J	10 U	10 U	10 U	10 U	2.3 J	1.6 J	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Acetone	µg/L	19	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Carbon disulfide	µg/L	4.5 J	3.5 J	0.48 J	10 U	3.6 J	150	11	24 J
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.32 J	5.0 U	25 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Ethylbenzene	µg/L	0.26 J	5.0 U	5.0 U	5.0 U	5.0 U	0.49 J	5.0 U	25 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Toluene	µg/L	0.24 J	5.0 U	5.0 U	5.0 U	5.0 U	0.33 J	5.0 U	25 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 J
Vinyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.48 J	5.0 U	25 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

Location ID:		10210A	10210B	10210C	10210C	10215	10225A	10225B	10225C
Sample Name:		WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029	WG-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034
Sample Date:		06/17/2021	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/17/2021	06/17/2021	06/16/2021
				Duplicate	Duplicate				
Parameters	**Unit**								
Volatile Organic Compounds, TICs									
2-(Methylthio)-propane	µg/L	--	--	--	--	--	5.3 JN	--	--
6-Methyl-5-hepten-2-one	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--	40.8 JN	--	--
Dimethyl sulfide	µg/L	187.1 JN	--	--	--	--	587.8 JN	--	--
Dimethyl trisulfide	µg/L	--	--	--	--	--	8.1 JN	--	--
Furan, tetrahydro-2,5-dimethyl	µg/L	--	--	--	--	--	--	--	--
Hexanal	µg/L	--	--	--	--	--	--	--	--
Methanethiol	µg/L	--	--	--	--	--	113.1 JN	--	--
Methoxytrimethyl-silane	µg/L	--	--	--	--	--	--	6.6 JN	34.6 JN
Methylthioethane	µg/L	15.5 JN	--	--	--	--	54.8 JN	--	--
Octanal	µg/L	--	--	--	--	--	--	--	--
Sulfur dioxide (SO2)	µg/L	280.4 JN	--	--	131.7 JN	8.9 JN	--	183.6 JN	96.5 JN
Tetrahydro-2-methyl-furan	µg/L	--	--	--	--	--	--	--	--
Trimethylsilanol	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	63.3 J	--	--	--	--	70.5 J	98.4 J	--
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	6.3 J
1,2-Dichlorobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
2,4-Dinitrophenol	µg/L	45 U	45 UJ	45 UJ	45 UJ	45 UJ	45 U	45 U	45 U
2,4-Dinitrotoluene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	10210A	10210B	10210C	10210C	10215	10225A	10225B	10225C
	Sample Name:	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029	WG-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034
	Sample Date:	06/17/2021	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/17/2021	06/17/2021	06/16/2021
				Duplicate	Duplicate				
Parameters	**Unit**								
Semivolatile Organic Compounds									
Acenaphthylene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	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	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	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	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	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	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	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	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	10210A	10210B	10210C	10210C	10215	10225A	10225B	10225C
	Sample Name:	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029	WG-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034
	Sample Date:	06/17/2021	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/17/2021	06/17/2021	06/16/2021
				Duplicate	Duplicate				
Parameters	**Unit**								
Semivolatile Organic Compounds, TICs									
1-Chloro-2-methyl-benzene	µg/L	--	--	--	--	--	--	--	--
2,3,6-Trichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,4-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2,6-Dichlorotoluene	µg/L	--	--	--	--	--	--	--	--
2-Chlorobenzenemethanol	µg/L	--	--	--	--	--	--	--	--
3,4-Dichlorophenol	µg/L	--	--	--	--	--	--	--	--
3-Benzoylbenzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Benzoyl-(rel)-benzoic acid	µg/L	--	--	--	--	--	--	--	--
4-Chlorobenzoic acid	µg/L	--	--	--	--	--	--	--	--
Benzeneacetic acid	µg/L	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	--	--	--	--	--	--	--	--
Cyclohexanecarboxylic acid	µg/L	--	--	--	--	--	--	--	--
Cyclohexanol	µg/L	--	--	--	--	--	--	--	--
Dimethyl disulfide	µg/L	18 JN	--	--	--	--	31 JN	--	--
Dodecanoic acid	µg/L	--	--	--	4.5 JN	--	--	--	--
Heptane	µg/L	--	--	--	--	--	--	--	--
Hexadecanoic acid	µg/L	--	--	--	5.7 JN	8.1 JN	--	--	--
N-Heptane	µg/L	--	--	--	--	--	--	--	--
p-Chlorobenzyl alcohol	µg/L	--	--	--	--	--	--	--	--
Sulfur	µg/L	--	15 JN	4.0 JN	12 JN	15 JN	--	--	--
Toluene	µg/L	--	--	--	--	--	--	--	--
Unknown	µg/L	8.4 J	5.5 J	--	3.8 J	4.4 J	210 J	46 J	4.3 J
Unknown hydrocarbon	µg/L	--	--	--	--	--	--	15 J	--
PCBs									
Aroclor-1016 (PCB-1016)	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
Aroclor-1221 (PCB-1221)	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
Aroclor-1232 (PCB-1232)	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
Aroclor-1242 (PCB-1242)	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
Aroclor-1248 (PCB-1248)	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
Aroclor-1254 (PCB-1254)	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
Aroclor-1260 (PCB-1260)	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

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	10210A	10210B	10210C	10210C	10215	10225A	10225B	10225C
	Sample Name:	WG-9954-061721-SG-037	WG-9954-061421-SG-027	WG-9954-061521-SG-028	WG-9954-061521-SG-029	WG-9954-061521-SG-030	WG-9954-061721-SG-040	WG-9954-061721-SG-041	WG-9954-061621-SG-034
	Sample Date:	06/17/2021	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/17/2021	06/17/2021	06/16/2021
				Duplicate	Duplicate				
Parameters	**Unit**								
Pesticides									
4,4'-DDD	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
alpha-BHC	µg/L	0.082	0.051 U	0.050 U	0.13	0.065	0.43	0.17	0.13
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	0.045 U	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.065	0.082	0.12 J	0.29 J	0.20 J	0.045 U	0.14	0.045 U
Dieldrin	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	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	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	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	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	0.045 U	0.045 U	0.045 U	0.045 U
gamma-BHC (lindane)	µg/L	0.078	0.076	0.075 J	0.23 J	0.11	0.045 U	0.17	0.093
gamma-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	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	R	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	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	0.045 U	0.045 U	0.045 U	0.045 U
Toxaphene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
PCBs - Polychlorinated Biphenyls
-- - Not applicable
JN - Presumptively present at estimated value
TICs - Tentatively Identified Compound
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	**10270**	**10272**	**10278**	**MW-01**	**MW-02**
	Sample Name:	**WG-9954-061021-SG-019**	**WG-9954-061021-SG-018**	**WG-9954-061021-SG-017**	**WG-9954-061721-SG-043**	**WG-9954-061721-SG-042**
	Sample Date:	**06/10/2021**	**06/10/2021**	**06/10/2021**	**06/17/2021**	**06/17/2021**
Parameters	**Unit**					
Volatile Organic Compounds						
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	3.5 J	3.4 J	4.0 J	2.1 J	2.0 J
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	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	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 Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	10270	10272	10278	MW-01	MW-02
	Sample Name:	WG-9954-061021-SG-019	WG-9954-061021-SG-018	WG-9954-061021-SG-017	WG-9954-061721-SG-043	WG-9954-061721-SG-042
	Sample Date:	06/10/2021	06/10/2021	06/10/2021	06/17/2021	06/17/2021
Parameters	**Unit**					
Volatile Organic Compounds, TICs						
2-(Methylthio)-propane	µg/L	--	--	--	--	--
6-Methyl-5-hepten-2-one	µg/L	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--
Dimethyl sulfide	µg/L	--	--	--	--	--
Dimethyl trisulfide	µg/L	--	--	--	--	--
Furan, tetrahydro-2,5-dimethyl	µg/L	--	--	--	--	--
Hexanal	µg/L	--	--	--	--	--
Methanethiol	µg/L	--	--	--	--	--
Methoxytrimethyl-silane	µg/L	--	--	--	--	--
Methylthioethane	µg/L	--	--	--	--	--
Octanal	µg/L	--	--	--	--	--
Sulfur dioxide (SO2)	µg/L	43.0 JN	51.3 JN	192.4 JN	46.4 JN	46.2 JN
Tetrahydro-2-methyl-furan	µg/L	--	--	--	--	--
Trimethylsilanol	µg/L	--	--	--	--	--
Unknown	µg/L	--	--	--	--	--
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	µg/L	9.1 U	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	9.1 U
1,3-Dichlorobenzene	µg/L	9.1 U	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	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	9.1 U
2,4,5-Trichlorophenol	µg/L	9.1 U	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	9.1 U
2,4-Dichlorophenol	µg/L	9.1 U	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	9.1 U
2,4-Dinitrophenol	µg/L	45 U	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	9.1 U
2,6-Dinitrotoluene	µg/L	9.1 U	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	9.1 U
2-Chlorophenol	µg/L	9.1 U	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	9.1 U
2-Methylphenol	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
2-Nitroaniline	µg/L	9.1 U	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	9.1 U
3&4-Methylphenol	µg/L	9.1 U	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	9.1 U
3-Nitroaniline	µg/L	9.1 U	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	45 U
4-Bromophenyl phenyl ether	µg/L	9.1 U	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	9.1 U
4-Chloroaniline	µg/L	9.1 U	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	9.1 U
4-Nitroaniline	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
4-Nitrophenol	µg/L	45 U	45 U	45 U	45 U	45 U
Acenaphthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	**10270**	**10272**	**10278**	**MW-01**	**MW-02**
	Sample Name:	**WG-9954-061021-SG-019**	**WG-9954-061021-SG-018**	**WG-9954-061021-SG-017**	**WG-9954-061721-SG-043**	**WG-9954-061721-SG-042**
	Sample Date:	**06/10/2021**	**06/10/2021**	**06/10/2021**	**06/17/2021**	**06/17/2021**
Parameters	**Unit**					
Semivolatile Organic Compounds						
Acenaphthylene	µg/L	9.1 U	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	9.1 U
Benzo(a)anthracene	µg/L	9.1 U	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	9.1 U
Benzo(b)fluoranthene	µg/L	9.1 U	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	9.1 U
Benzo(k)fluoranthene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Benzoic acid	µg/L	45 U	45 U	45 U	45 U	45 U
Benzyl alcohol	µg/L	9.1 U	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	9.1 U
bis(2-Chloroethyl)ether	µg/L	9.1 U	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	9.1 U
Butyl benzylphthalate (BBP)	µg/L	9.1 U	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	9.1 U
Di-n-butylphthalate (DBP)	µg/L	9.1 U	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	9.1 U
Dibenz(a,h)anthracene	µg/L	9.1 U	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	9.1 U
Diethyl phthalate	µg/L	9.1 U	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	9.1 U
Fluoranthene	µg/L	9.1 U	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	9.1 U
Hexachlorobenzene	µg/L	9.1 U	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	9.1 U
Hexachlorocyclopentadiene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Hexachloroethane	µg/L	9.1 U	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	9.1 U
Isophorone	µg/L	9.1 U	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	9.1 U
N-Nitrosodiphenylamine	µg/L	9.1 U	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	9.1 U
Nitrobenzene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U
Pentachlorophenol	µg/L	45 U	45 U	45 U	45 U	45 U
Phenanthrene	µg/L	9.1 U	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	9.1 U
Pyrene	µg/L	9.1 U	9.1 U	9.1 U	9.1 U	9.1 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	**10270**	**10272**	**10278**	**MW-01**	**MW-02**
	Sample Name:	**WG-9954-061021-SG-019**	**WG-9954-061021-SG-018**	**WG-9954-061021-SG-017**	**WG-9954-061721-SG-043**	**WG-9954-061721-SG-042**
	Sample Date:	**06/10/2021**	**06/10/2021**	**06/10/2021**	**06/17/2021**	**06/17/2021**
Parameters	**Unit**					
Semivolatile Organic Compounds, TICs						
1-Chloro-2-methyl-benzene	µg/L	--	--	--	--	--
2,3,6-Trichlorotoluene	µg/L	--	--	--	--	--
2,4-Dichlorotoluene	µg/L	--	--	--	--	--
2,6-Dichlorotoluene	µg/L	--	--	--	--	--
2-Chlorobenzenemethanol	µg/L	--	--	--	--	--
3,4-Dichlorophenol	µg/L	--	--	--	--	--
3-Benzoylbenzoic acid	µg/L	--	--	--	--	--
4-Benzoyl-(rel)-benzoic acid	µg/L	--	--	--	--	--
4-Chlorobenzoic acid	µg/L	--	--	--	--	--
Benzeneacetic acid	µg/L	--	--	--	--	--
Chlorobenzene	µg/L	--	--	--	--	--
Cyclohexanecarboxylic acid	µg/L	--	--	--	--	--
Cyclohexanol	µg/L	--	--	--	--	--
Dimethyl disulfide	µg/L	--	--	--	--	--
Dodecanoic acid	µg/L	--	--	--	--	--
Heptane	µg/L	--	--	--	--	--
Hexadecanoic acid	µg/L	--	--	--	--	--
N-Heptane	µg/L	--	--	--	--	--
p-Chlorobenzyl alcohol	µg/L	--	--	--	--	--
Sulfur	µg/L	9.6 JN	4.9 JN	22 JN	--	--
Toluene	µg/L	--	--	--	--	--
Unknown	µg/L	23 J	--	--	3.7 J	--
Unknown hydrocarbon	µg/L	--	--	--	--	--
PCBs						
Aroclor-1016 (PCB-1016)	µg/L	0.91 U	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	1.8 U
Aroclor-1232 (PCB-1232)	µg/L	0.91 U	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	0.91 U
Aroclor-1248 (PCB-1248)	µg/L	0.91 U	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	0.91 U
Aroclor-1260 (PCB-1260)	µg/L	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U

Table 2

Analytical Results Summary
Love Canaly Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

	Location ID:	**10270**	**10272**	**10278**	**MW-01**	**MW-02**
	Sample Name:	**WG-9954-061021-SG-019**	**WG-9954-061021-SG-018**	**WG-9954-061021-SG-017**	**WG-9954-061721-SG-043**	**WG-9954-061721-SG-042**
	Sample Date:	**06/10/2021**	**06/10/2021**	**06/10/2021**	**06/17/2021**	**06/17/2021**
Parameters	**Unit**					
Pesticides						
4,4'-DDD	µg/L	0.045 U	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	0.045 U
4,4'-DDT	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
Aldrin	µg/L	0.045 U	0.045 U	0.038 J	0.045 U	0.045 U
alpha-BHC	µg/L	0.026 J	0.10 J	0.12	0.045 U	0.045 U
alpha-Chlordane	µg/L	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U
beta-BHC	µg/L	0.045 U	0.037 J	0.045 U	0.045 U	0.045 U
delta-BHC	µg/L	0.17	0.16 J	0.18	0.045 U	0.045 U
Dieldrin	µg/L	0.045 U	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	0.045 U
Endosulfan II	µg/L	0.045 U	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	0.045 U
Endrin	µg/L	0.045 U	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	0.045 U
gamma-BHC (lindane)	µg/L	0.073	0.12	0.26 J	0.045 U	0.045 U
gamma-Chlordane	µg/L	0.045 U	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	0.045 U
Heptachlor epoxide	µg/L	0.045 U	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	0.045 U
Toxaphene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
PCBs - Polychlorinated Biphenyls
-- - Not applicable
JN - Presumptively present at estimated value
TICs - Tentatively Identified Compound
UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

			Holding Time	
Parameter	**Method**	**Matrix**	**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 References:

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 2021

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
SVOCs	2,4-Dinitrophenol	06/24/2021	40.9	WG-9954-061421-SG-025	45 UJ	µg/L
				WG-9954-061421-SG-026	45 UJ	µg/L
				WG-9954-061421-SG-027	45 UJ	µg/L
				WG-9954-061521-SG-028	45 UJ	µg/L
				WG-9954-061521-SG-029	45 UJ	µg/L
				WG-9954-061521-SG-030	45 UJ	µg/L
				WG-9954-061521-SG-031	45 UJ	µg/L
SVOCs	2,4,6-Trichlorophenol	06/16/2021	22.0	WG-9954-060921-SG-007	9.1 UJ	µg/L
				WG-9954-060921-SG-008	9.1 UJ	µg/L
				WG-9954-060921-SG-009	9.1 UJ	µg/L
				WG-9954-060921-SG-010	9.1 UJ	µg/L
				WG-9954-060921-SG-011	9.1 UJ	µg/L
				WG-9954-060921-SG-012	9.1 UJ	µg/L
				WG-9954-060921-SG-013	9.1 UJ	µg/L
				WG-9954-060921-SG-014	9.1 UJ	µg/L

Notes:

SVOCs - Semi-volatile Organic Compounds
%D - Percent difference
UJ - Not detected; associated reporting limit is estimated

Table 5

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 2021

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Associated Sample ID	Qualified Result	Units
VOCs	Carbon disulfide	06/21/2021	129	-	-	66 - 128	-	WG-9954-061121-SG-024	0.51 J	µg/L
SVOCs	Benzo(g,h,i)perylene	06/11/2021	62	64	3	63 - 136	30	WG-9954-060821-SG-001	9.1 UJ	µg/L
								WG-9954-060821-SG-002	9.1 UJ	µg/L
								WG-9954-060821-SG-003	9.1 UJ	µg/L
								WG-9954-060821-SG-004	9.1 UJ	µg/L
								WG-9954-060821-SG-005	9.1 UJ	µg/L
								WG-9954-060821-SG-006	9.1 UJ	µg/L

Notes:

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
RPD - Relative Percent Difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds

Table 6

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 2021

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Pesticides	WG-9954-061021-SG-017	gamma-BHC (lindane)	3	5	3	43 - 164	30	0.26 J	µg/L
Pesticides	WG-9954-061021-SG-018	alpha-BHC	83	52	32	27 - 154	30	0.10 J	µg/L
		delta-BHC	204	97	56	10 - 182	30	0.16 J	µg/L
Pesticides	WG-9954-061521-SG-030	delta-BHC	62	124	42	10 - 182	30	0.20 J	µg/L
		Heptachlor	30	0	NC	29 - 168	30	R	
SVOCs	WG-9954-060821-SG-001	Benzo(g,h,i)perylene	41	47	14	50 - 143	30	9.1 UJ	µg/L
		Indeno(1,2,3-cd)pyrene	37	45	20	49 - 140	30	9.1 UJ	µg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
J - Estimated concentration
R - Rejected
UJ - Not detected; associated reporting limit is estimated
SVOCs - Semi-volatile Organic Compounds

Table 7

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	06/11/2021	Bromomethane (Methyl bromide)	0.82 J	WG-9954-061121-SG-20	0.89 J	5.0 U	µg/L
				WG-9954-061121-SG-21	1.2 J	5.0 U	µg/L
VOCs	06/11/2021	Chloromethane (Methyl chloride)	0.77 J	WG-9954-061121-SG-20	0.40 J	5.0 U	µg/L
				WG-9954-061121-SG-21	0.45 J	5.0 U	µg/L
VOCs	06/17/2021	Chloromethane (Methyl chloride)	0.30 J	WG-9954-061721-SG-044	0.36 J	5.0 U	µg/L
				WG-9954-061721-SG-045	0.34 J	5.0 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 8

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 2021

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Pesticides	Rinse Blank	06/14/2021	alpha-BHC	0.062	WG-9954-061421-SG-027	0.051	0.051 U	µg/L
					WG-9954-061521-SG-028	0.050	0.050 U	µg/L

Notes:

U - Not detected at the associated reporting limit

Table 9

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 2021

Parameter	Analyte	RPD	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Pesticides	delta-BHC	82.9	WG-9954-061521-SG-028	0.12 J	WG-9954-061521-SG-029	0.29 J	µg/L
	gamma-BHC (lindane)	101		0.075 J		0.23 J	µg/L

Notes:

RPD - Relative Percent Difference
J - Estimated concentration

Table 10

Qualified Sample Data Due to Differences in Dual Column Results
Love Canal Annual Long-Term Monitoring Program
Glenn Springs Holdings, Inc.
Niagara Falls, New York
June 2021

Parameter	Analyte	% D (percent)	Criteria (percent)	Associated Sample ID	Qualified Result	Units
Pesticides	beta-BHC	44	< 40	WG-9954-061021-SG-018	0.037 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration

Appendix G

Niagara Falls Water Board Inspection Letter

NIAGARA FALLS WATER BOARD

ANNUAL PLANT INSPECTION

INDUSTRIAL PRETREATMENT PROGRAM

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: 9/4/2020
CATEGORICAL IU? NO
Day/Date and Time of Inspection:
Thursday, January 28th, 2021 @ 9:00AM

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 – December, 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)

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? [40 CFR 403.17a] **N/A**

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.

December 15, 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 Thursday, January 28th, 2021 @ 9:00AM.
These inspections are the annual compliance inspections performed by NFWB as required by 40 CFR §403.8(f)(2)(v).
A tour of the facility was conducted.

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 Maintenance of Backflow Prevention Device Reports

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Empire State Plaza - Corning Tower Room 1110
Albany, NY 12237

Report on Test and Maintenance of Backflow Prevention Device

PART A — **Please use a separate form for each device.**

For the year
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
City of Niagara Falls		Niagara		

Facility Name: Glen Springs Remediation
Address: 805-95th St. (Street) Niagara Falls (City) (Zip)
Location of Device: Treatment Bldg. (Mech Room)

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	909	3"	192775

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 72 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 7.6 psid	Leaked ☐ Closed tight ☒	Opened at 2.2 psid	Date 03 / 04 / 21 (M D Y)
Describe repairs and materials used				Repaired by Name _____ Lic # _____ Date repaired: ___ ___ ___ (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve _____ psid	Closed tight ☐	Opened at _____ psid	Date ___ ___ ___ (M D Y)
Water Meter Number 31923329		Meter Reading 551719 - 18372	Type of Service: (check one) 9 Domestic 9 Fire 9 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	Certified Tester No.	Signature	Expiration Date
Austin Crossin	13192		09/30/22

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Corbett	Tech		7169985804

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 (m d y)	NYS DOH Log #
License Number	Phone ( )		
Representing			
Address		Describe minor installation changes	
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.

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Empire State Plaza - Corning Tower Room 1110
Albany, NY 12237

Report on Test and Maintenance of Backflow Prevention Device

PART A — **Please use a separate form for each device.**

For the year 2022
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
City of Niagara Falls		Niagara		

Facility Name: Glenn Springs Remediation
Address: 305-95th St. (Street) Niagara Falls (City) (Zip)
Location of Device: Treatment BDG. (wash Down)

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	009M2QT	3/4	61327

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 78 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 7.2 psid	Leaked ☐ Closed tight ☒	Opened at 22 psid	Date 03 04 21 (M D Y)
Describe repairs and materials used				Repaired by Name Lic # Date repaired: (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve _____ psid	Closed tight ☐	Opened at _____ psid	Date (M D Y)

Water Meter Number	Meter Reading	Type of Service: (check one)
N/A	N/A	9 Domestic 9 Fire 9 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	Certified Tester No.	Signature	Expiration Date
Justin Crosby	13192		09/30/22

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Corbett	Tech		716 998 5804

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 (m d y)	NYS DOH Log #
License Number	Phone ( )		
Representing			
Address		Describe minor installation changes	
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.

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Empire State Plaza - Corning Tower Room 1110
Albany, NY 12237

Report on Test and Maintenance of Backflow Prevention Device

PART A — **Please use a separate form for each device.**

For the year 2021
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
City of Niagara Falls		Niagara		

Facility Name Glenn Spring Remediation
Address 475-95 (Street) St. (City) Niagara Falls (Zip)
Location of Device: Treatment BDG. (Bc)

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	009M2QT	2"	179645

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 77 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 2.7 psid	Leaked ☐ Closed tight ☒	Opened at 2.2 psid	Date 03 04 21 (M D Y)
Describe repairs and materials used				Repaired by: Name ____ Lic # ____ Date repaired: ____ (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve ____ psid	Closed tight ☐	Opened at ____ psid	Date ____ (M D Y)

Water Meter Number: N/A
Meter Reading: N/A
Type of Service: (check one) 9 Domestic 9 Fire 9 (Other) Process

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	Certified Tester No.	Signature	Expiration Date
Austin Crossley	13192		09/30/22

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Corbett	Tech		(716) 998-5804

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 (m d y)	NYS DOH Log #
License Number	Phone ( )		
Representing			
Address		Describe minor installation changes	
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.

NEW YORK STATE DEPARTMENT OF HEALTH
Bureau of Public Water Supply Protection
Empire State Plaza - Corning Tower Room 1110
Albany, NY 12237

Report on Test and Maintenance of Backflow Prevention Device

PART A — **Please use a separate form for each device.**

For the year 2021
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
City of Niagara Falls		Niagara		

Facility Name: Glenn Springs Remediations
Address: 805 - 95th St. (Street) Niagara Falls (City) (Zip)
Location of Device: Maintenance Bldg.

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	LF009M2QT	1"	029613

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 76 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 7.2 psid	Leaked ☐ Closed tight ☒	Opened at 2.1 psid	Date 03 02 21 (M D Y)
Describe repairs and materials used				Repaired by Name Lic # Date repaired: (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve _____ psid	Closed tight ☐	Opened at _____ psid	Date (M D Y)

Water Meter Number: 34592315
Meter Reading: 035811
Type of Service: (check one) 9 Domestic 9 Fire 9 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	Certified Tester No.	Signature	Expiration Date
Austin Crossley	13192		09/30/22

Property owner-s (or owner-s agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Crockett	Tech		716 998-5804

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 (m d y)	NYS DOH Log #
License Number	Phone ( )		
Representing			
Address		Describe minor installation changes	
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.
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DOH- 1013(9/91)

NEW YORK STATE DEPARTMENT OF HEALTH
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Albany, NY 12237

Report on Test and Maintenance of Backflow Prevention Device

PART A — **Please use a separate form for each device.**

For the year 2021
☐ Initial test - *Complete entire form*
☒ Annual test - *Complete Part A only*

Public Water Supply	Account No.	County	Block	Lot
City of Niagara Falls		Niagara		

Facility Name Glenn Springs Remediation
Address 205-95th St (Street) Niagara Falls (City) (Zip)
Location of Device: Locker Room

Device Information	Manufacturer	Type	Model	Size (in inches)	Serial Number
	WATTS	☒ RPZ ☐ DCV	909	1 1/2	764807

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve	Line Pressure 78 psi
Test before repair	Leaked ☐ Closed tight ☒ Pressure drop across first check valve 7.2 psid	Leaked ☐ Closed tight ☒	Opened at 2.2 psid	Date 03 02 21 (M D Y)
Describe repairs and materials used				Repaired by Name Lic # Date repaired: (M D Y)
Final test	Closed tight ☐ Pressure drop across first check valve _____ psid	Closed tight ☐	Opened at _____ psid	Date (M D Y)

Water Meter Number 3167117 | Meter Reading 11410 | Type of Service: (check one) 9 Domestic 9 Fire 9 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	Certified Tester No.	Signature	Expiration Date
Austin Crossett	13142		09/30/22

Property owner's (or owner's agent) certification that test was performed:

Print Name	Title	Signature	Telephone
Darrell Corbett	Tech		716 998-5804

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 (m d y)	NYS DOH Log #
License Number	Phone ( )		
Representing			
Address		Describe minor installation changes	
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.
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