

Appendix E
Laboratory Raw Data Package
June through July 2016



July 18, 2016

Service Request No:R1606601

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
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 23, 2016
For your reference, these analyses have been assigned our service request number **R1606601**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7478. You may also contact me via email at Vanessa.Badman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Vanessa Badman
Customer Service
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

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CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1606601

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1606601-001	WG-9954-062116-SG-003	6/21/2016	1210
R1606601-002	WG-9954-062116-SG-002	6/21/2016	1115
R1606601-003	WG-9954-062016-SG-001	6/20/2016	1510
R1606601-004	WG-9954-062116-SG-006	6/21/2016	1455
R1606601-005	WG-9954-062116-SG-005	6/21/2016	1405
R1606601-006	WG-9954-062116-SG-004	6/21/2016	1310
R1606601-007	TB-9954-062016-SG	6/21/2016	0000
R1606601-008	WG-9954-062216-SG-009	6/22/2016	1414
R1606601-009	WG-9954-062216-SG-010	6/22/2016	1458
R1606601-010	WG-9954-062216-SG-011	6/22/2016	1546
R1606601-011	WG-9954-062216-SG-007	6/22/2016	1210
R1606601-012	WG-9954-062216-SG-008	6/22/2016	1325
R1606601-013	TB-9954-062216-SG	6/22/2016	0000

This is a preliminary Tier II report in which your Tier III or Tier IV will soon follow. The report has been reviewed for completeness only. The Case Narrative and Raw Data review will be completed upon the assembling of the final data package and therefore could contain some differences between the preliminary report and final data package. Preliminary Tier II reports containing Metals data could have a slight difference in the final Tier III or Tier IV results due to rounding rules used in the reporting software.

If you have any questions regarding this, please contact your Customer Service Representative.

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered unless otherwise qualified/flagged within the report.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062116-SG-003		Lab ID: R1606601-001				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.4	J	0.22	10	ug/L	8260C
delta-BHC	0.080		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.064		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062116-SG-002		Lab ID: R1606601-002				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.8	J	0.22	10	ug/L	8260C
alpha-BHC	0.069		0.028	0.047	ug/L	8081B
delta-BHC	0.23		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.089		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062016-SG-001		Lab ID: R1606601-003				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.8	J	0.22	10	ug/L	8260C
alpha-BHC	0.28		0.028	0.047	ug/L	8081B
delta-BHC	0.13		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.33		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062116-SG-006		Lab ID: R1606601-004				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.2	J	0.22	10	ug/L	8260C
alpha-BHC	0.050		0.028	0.047	ug/L	8081B
delta-BHC	0.10		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.080		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062116-SG-005		Lab ID: R1606601-005				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.1	J	0.22	10	ug/L	8260C
CLIENT ID: WG-9954-062116-SG-004		Lab ID: R1606601-006				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.9	J	0.22	10	ug/L	8260C
CLIENT ID: WG-9954-062216-SG-007		Lab ID: R1606601-011				
Analyte	Results	Flag	MDL	PQL	Units	Method
Bis(2-ethylhexyl) Phthalate	1.4	J	1.2	9.4	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 Services Inc. (Formerly Conestoga-Rovers & Associates, Inc.)
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request:R1606601

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1606601-001	WG-9954-062116-SG-003	6/21/2016	1210
R1606601-002	WG-9954-062116-SG-002	6/21/2016	1115
R1606601-003	WG-9954-062016-SG-001	6/20/2016	1510
R1606601-004	WG-9954-062116-SG-006	6/21/2016	1455
R1606601-005	WG-9954-062116-SG-005	6/21/2016	1405
R1606601-006	WG-9954-062116-SG-004	6/21/2016	1310
R1606601-007	TB-9954-062016-SG	6/21/2016	0000
R1606601-008	WG-9954-062216-SG-009	6/22/2016	1414
R1606601-009	WG-9954-062216-SG-010	6/22/2016	1458
R1606601-010	WG-9954-062216-SG-011	6/22/2016	1546
R1606601-011	WG-9954-062216-SG-007	6/22/2016	1210
R1606601-012	WG-9954-062216-SG-008	6/22/2016	1325
R1606601-013	TB-9954-062216-SG	6/22/2016	0000

CHAIN-OF-CUSTODY/Analytical Request Document

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

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623	
Laboratory Contact: VANESSA BADMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-01-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name: S GARDNER	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	EXTRA(None)	Pest/PCBs (None)	SVOC (none)	VOA(HCI)	Sample Condition		Remarks
									Temp in C		
									Received on ice	Y/N	
									Sealed Cooler	Y/N	
									Samples Intact	Y/N	
WG-9954-062116-SG-003		WG	06/21/2016	12:10	1	1	1	3			
WG-9954-062116-SG-002		WG	06/21/2016	11:15	1	1	1	3			
WG-9954-062016-SG-001		WG	06/20/2016	15:10	1	1	1	3			
WG-9954-062116-SG-006		WG	06/21/2016	14:55	1	1	1	3			
WG-9954-062116-SG-005		WG	06/21/2016	14:05	1	1	1	3			
WG-9954-062116-SG-004		WG	06/21/2016	13:10	1	1	1	3			
TB-9954-062016-SG		WG Q	06/20/2016	00:00	0	0	0	3			
Total Bottles					6	6	6	21	Grand Total:39		

Sample Condition

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

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
Lab Courier	2	<i>[Signature]</i>	6/21/16	16:15	<i>[Signature]</i>	6/22/16	15:45
AIRBILL#:							

R1606601

5

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





Cooler Receipt and Preservation Check For

R1606601

5

GHD Services Inc.
Love Canal 292-402-D02-3100Project/Client GHD Folder Number R16-6601Cooler received on 6-22-16 by: KECOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 6-22-16 Time: 15:56 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>0.9</u>	<u>2.0</u>					
Correction Factor (°C)	<u>0</u>	<u>-0</u>					
Corrected Temp (°C)	<u>0.9</u>	<u>2.0</u>					
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ 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 6-22-16 at 16:03
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: _____

Cooler Breakdown: Date: 6/22/16 Time: 2:00 by: dlw

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**	<u>Client Int'l</u>					

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: Client label
Other Comments: _____

PC Secondary Review: _____

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606601

Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001
Sample Matrix: Water

Date Collected: 06/21/16
Date Received: 06/22/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002
Sample Matrix: Water

Date Collected: 06/21/16
Date Received: 06/22/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003
Sample Matrix: Water

Date Collected: 06/20/16
Date Received: 06/22/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606601

Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004
Sample Matrix: Water

Date Collected: 06/21/16
Date Received: 06/22/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005
Sample Matrix: Water

Date Collected: 06/21/16
Date Received: 06/22/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006
Sample Matrix: Water

Date Collected: 06/21/16
Date Received: 06/22/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606601

Sample Name: TB-9954-062016-SG
Lab Code: R1606601-007
Sample Matrix: Water

Date Collected: 06/21/16
Date Received: 06/22/16

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY
DMURPHY

Analyzed By
AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY
DMURPHY

Analyzed By
AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method
8081B
8082A

Extracted/Digested By
DMURPHY
DMURPHY

Analyzed By
AMOSSES
MPEDRO

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606601

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: TB-9954-062216-SG
Lab Code: R1606601-013
Sample Matrix: Water

Date Collected: 06/22/16
Date Received: 06/23/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 12:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 16:00	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 16:00	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 16:00	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 16:00	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 16:00	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 16:00	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 16:00	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 16:00	
2-Hexanone	10 U	10	1.7	1	06/28/16 16:00	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 16:00	
Acetone	10 U	10	1.3	1	06/28/16 16:00	
Benzene	5.0 U	5.0	0.20	1	06/28/16 16:00	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 16:00	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 16:00	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 16:00	
Carbon Disulfide	1.4 J	10	0.22	1	06/28/16 16:00	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 16:00	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 16:00	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 16:00	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 16:00	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 16:00	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 16:00	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 16:00	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 16:00	
Styrene	5.0 U	5.0	0.20	1	06/28/16 16:00	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 16:00	
Toluene	5.0 U	5.0	0.20	1	06/28/16 16:00	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 16:00	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 16:00	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 16:00	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 16:00	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 16:00	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 16:00	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 16:00	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 16:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	06/28/16 16:00	
Dibromofluoromethane	109	89 - 119	06/28/16 16:00	
Toluene-d8	103	87 - 121	06/28/16 16:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water
Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001

Service Request: R1606601
Date Collected: 06/21/16 12:10
Date Received: 06/22/16 15:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	21.0	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 11:15
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 16:24	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 16:24	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 16:24	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 16:24	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 16:24	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 16:24	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 16:24	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 16:24	
2-Hexanone	10 U	10	1.7	1	06/28/16 16:24	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 16:24	
Acetone	10 U	10	1.3	1	06/28/16 16:24	
Benzene	5.0 U	5.0	0.20	1	06/28/16 16:24	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 16:24	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 16:24	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 16:24	
Carbon Disulfide	1.8 J	10	0.22	1	06/28/16 16:24	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 16:24	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 16:24	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 16:24	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 16:24	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 16:24	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 16:24	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 16:24	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 16:24	
Styrene	5.0 U	5.0	0.20	1	06/28/16 16:24	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 16:24	
Toluene	5.0 U	5.0	0.20	1	06/28/16 16:24	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 16:24	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 16:24	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 16:24	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 16:24	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 16:24	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 16:24	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 16:24	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 16:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/28/16 16:24	
Dibromofluoromethane	108	89 - 119	06/28/16 16:24	
Toluene-d8	103	87 - 121	06/28/16 16:24	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water
Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002

Service Request: R1606601
Date Collected: 06/21/16 11:15
Date Received: 06/22/16 15:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	20.1	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/20/16 15:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 16:49	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 16:49	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 16:49	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 16:49	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 16:49	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 16:49	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 16:49	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 16:49	
2-Hexanone	10 U	10	1.7	1	06/28/16 16:49	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 16:49	
Acetone	10 U	10	1.3	1	06/28/16 16:49	
Benzene	5.0 U	5.0	0.20	1	06/28/16 16:49	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 16:49	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 16:49	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 16:49	
Carbon Disulfide	1.8 J	10	0.22	1	06/28/16 16:49	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 16:49	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 16:49	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 16:49	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 16:49	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 16:49	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 16:49	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 16:49	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 16:49	
Styrene	5.0 U	5.0	0.20	1	06/28/16 16:49	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 16:49	
Toluene	5.0 U	5.0	0.20	1	06/28/16 16:49	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 16:49	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 16:49	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 16:49	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 16:49	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 16:49	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 16:49	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 16:49	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 16:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/28/16 16:49	
Dibromofluoromethane	108	89 - 119	06/28/16 16:49	
Toluene-d8	101	87 - 121	06/28/16 16:49	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water
Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003

Service Request: R1606601
Date Collected: 06/20/16 15:10
Date Received: 06/22/16 15:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	22.2	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:55
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 15:36	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 15:36	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 15:36	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 15:36	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 15:36	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 15:36	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 15:36	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 15:36	
2-Hexanone	10 U	10	1.7	1	06/28/16 15:36	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 15:36	
Acetone	10 U	10	1.3	1	06/28/16 15:36	
Benzene	5.0 U	5.0	0.20	1	06/28/16 15:36	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 15:36	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 15:36	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 15:36	
Carbon Disulfide	1.2 J	10	0.22	1	06/28/16 15:36	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 15:36	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 15:36	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 15:36	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 15:36	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 15:36	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 15:36	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 15:36	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 15:36	
Styrene	5.0 U	5.0	0.20	1	06/28/16 15:36	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 15:36	
Toluene	5.0 U	5.0	0.20	1	06/28/16 15:36	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 15:36	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 15:36	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 15:36	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 15:36	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 15:36	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 15:36	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 15:36	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 15:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/28/16 15:36	
Dibromofluoromethane	106	89 - 119	06/28/16 15:36	
Toluene-d8	102	87 - 121	06/28/16 15:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water
Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004

Service Request: R1606601
Date Collected: 06/21/16 14:55
Date Received: 06/22/16 15:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	19.9	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:05
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 15:12	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 15:12	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 15:12	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 15:12	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 15:12	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 15:12	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 15:12	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 15:12	
2-Hexanone	10 U	10	1.7	1	06/28/16 15:12	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 15:12	
Acetone	10 U	10	1.3	1	06/28/16 15:12	
Benzene	5.0 U	5.0	0.20	1	06/28/16 15:12	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 15:12	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 15:12	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 15:12	
Carbon Disulfide	1.1 J	10	0.22	1	06/28/16 15:12	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 15:12	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 15:12	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 15:12	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 15:12	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 15:12	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 15:12	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 15:12	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 15:12	
Styrene	5.0 U	5.0	0.20	1	06/28/16 15:12	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 15:12	
Toluene	5.0 U	5.0	0.20	1	06/28/16 15:12	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 15:12	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 15:12	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 15:12	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 15:12	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 15:12	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 15:12	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 15:12	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 15:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	06/28/16 15:12	
Dibromofluoromethane	108	89 - 119	06/28/16 15:12	
Toluene-d8	99	87 - 121	06/28/16 15:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005

Service Request: R1606601
Date Collected: 06/21/16 14:05
Date Received: 06/22/16 15:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	26.6	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 13:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 14:47	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 14:47	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 14:47	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 14:47	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 14:47	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 14:47	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 14:47	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 14:47	
2-Hexanone	10 U	10	1.7	1	06/28/16 14:47	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 14:47	
Acetone	10 U	10	1.3	1	06/28/16 14:47	
Benzene	5.0 U	5.0	0.20	1	06/28/16 14:47	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 14:47	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 14:47	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 14:47	
Carbon Disulfide	1.9 J	10	0.22	1	06/28/16 14:47	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 14:47	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 14:47	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 14:47	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 14:47	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 14:47	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 14:47	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 14:47	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 14:47	
Styrene	5.0 U	5.0	0.20	1	06/28/16 14:47	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 14:47	
Toluene	5.0 U	5.0	0.20	1	06/28/16 14:47	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 14:47	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 14:47	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 14:47	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 14:47	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 14:47	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 14:47	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 14:47	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 14:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/28/16 14:47	
Dibromofluoromethane	104	89 - 119	06/28/16 14:47	
Toluene-d8	99	87 - 121	06/28/16 14:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water
Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006

Service Request: R1606601
Date Collected: 06/21/16 13:10
Date Received: 06/22/16 15:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.29	34.2	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 00:00
Date Received: 06/22/16 15:45

Sample Name: TB-9954-062016-SG
Lab Code: R1606601-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/27/16 22:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/27/16 22:40	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/27/16 22:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/27/16 22:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/27/16 22:40	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/27/16 22:40	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/27/16 22:40	
2-Butanone (MEK)	10 U	10	0.81	1	06/27/16 22:40	
2-Hexanone	10 U	10	1.7	1	06/27/16 22:40	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/27/16 22:40	
Acetone	10 U	10	1.3	1	06/27/16 22:40	
Benzene	5.0 U	5.0	0.20	1	06/27/16 22:40	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/27/16 22:40	
Bromoform	5.0 U	5.0	0.42	1	06/27/16 22:40	
Bromomethane	5.0 U	5.0	0.29	1	06/27/16 22:40	
Carbon Disulfide	10 U	10	0.22	1	06/27/16 22:40	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/27/16 22:40	
Chlorobenzene	5.0 U	5.0	0.29	1	06/27/16 22:40	
Chloroethane	5.0 U	5.0	0.24	1	06/27/16 22:40	
Chloroform	5.0 U	5.0	0.25	1	06/27/16 22:40	
Chloromethane	5.0 U	5.0	0.21	1	06/27/16 22:40	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/27/16 22:40	
Dichloromethane	5.0 U	5.0	0.60	1	06/27/16 22:40	
Ethylbenzene	5.0 U	5.0	0.20	1	06/27/16 22:40	
Styrene	5.0 U	5.0	0.20	1	06/27/16 22:40	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/27/16 22:40	
Toluene	5.0 U	5.0	0.20	1	06/27/16 22:40	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/27/16 22:40	
Vinyl Acetate	10 U	10	1.1	1	06/27/16 22:40	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/27/16 22:40	
Xylenes, Total	5.0 U	5.0	0.53	1	06/27/16 22:40	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/27/16 22:40	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/27/16 22:40	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/27/16 22:40	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/27/16 22:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/27/16 22:40	
Dibromofluoromethane	102	89 - 119	06/27/16 22:40	
Toluene-d8	97	87 - 121	06/27/16 22:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: TB-9954-062016-SG
Lab Code: R1606601-007

Service Request: R1606601
Date Collected: 06/21/16 00:00
Date Received: 06/22/16 15:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 01:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 01:53	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 01:53	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 01:53	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 01:53	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 01:53	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 01:53	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 01:53	
2-Hexanone	10 U	10	1.7	1	06/28/16 01:53	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 01:53	
Acetone	10 U	10	1.3	1	06/28/16 01:53	
Benzene	5.0 U	5.0	0.20	1	06/28/16 01:53	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 01:53	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 01:53	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 01:53	
Carbon Disulfide	10 U	10	0.22	1	06/28/16 01:53	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 01:53	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 01:53	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 01:53	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 01:53	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 01:53	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 01:53	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 01:53	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 01:53	
Styrene	5.0 U	5.0	0.20	1	06/28/16 01:53	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 01:53	
Toluene	5.0 U	5.0	0.20	1	06/28/16 01:53	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 01:53	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 01:53	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 01:53	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 01:53	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 01:53	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 01:53	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 01:53	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 01:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/28/16 01:53	
Dibromofluoromethane	101	89 - 119	06/28/16 01:53	
Toluene-d8	98	87 - 121	06/28/16 01:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 02:17	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 02:17	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 02:17	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 02:17	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 02:17	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 02:17	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 02:17	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 02:17	
2-Hexanone	10 U	10	1.7	1	06/28/16 02:17	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 02:17	
Acetone	10 U	10	1.3	1	06/28/16 02:17	
Benzene	5.0 U	5.0	0.20	1	06/28/16 02:17	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 02:17	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 02:17	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 02:17	
Carbon Disulfide	10 U	10	0.22	1	06/28/16 02:17	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 02:17	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 02:17	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 02:17	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 02:17	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 02:17	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 02:17	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 02:17	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 02:17	
Styrene	5.0 U	5.0	0.20	1	06/28/16 02:17	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 02:17	
Toluene	5.0 U	5.0	0.20	1	06/28/16 02:17	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 02:17	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 02:17	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 02:17	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 02:17	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 02:17	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 02:17	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 02:17	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 02:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/28/16 02:17	
Dibromofluoromethane	104	89 - 119	06/28/16 02:17	
Toluene-d8	100	87 - 121	06/28/16 02:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 02:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 02:42	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 02:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 02:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 02:42	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 02:42	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 02:42	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 02:42	
2-Hexanone	10 U	10	1.7	1	06/28/16 02:42	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 02:42	
Acetone	10 U	10	1.3	1	06/28/16 02:42	
Benzene	5.0 U	5.0	0.20	1	06/28/16 02:42	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 02:42	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 02:42	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 02:42	
Carbon Disulfide	10 U	10	0.22	1	06/28/16 02:42	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 02:42	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 02:42	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 02:42	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 02:42	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 02:42	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 02:42	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 02:42	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 02:42	
Styrene	5.0 U	5.0	0.20	1	06/28/16 02:42	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 02:42	
Toluene	5.0 U	5.0	0.20	1	06/28/16 02:42	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 02:42	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 02:42	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 02:42	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 02:42	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 02:42	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 02:42	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 02:42	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 02:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/28/16 02:42	
Dibromofluoromethane	107	89 - 119	06/28/16 02:42	
Toluene-d8	103	87 - 121	06/28/16 02:42	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 03:06	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 03:06	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 03:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 03:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 03:06	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 03:06	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 03:06	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 03:06	
2-Hexanone	10 U	10	1.7	1	06/28/16 03:06	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 03:06	
Acetone	10 U	10	1.3	1	06/28/16 03:06	
Benzene	5.0 U	5.0	0.20	1	06/28/16 03:06	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 03:06	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 03:06	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 03:06	
Carbon Disulfide	10 U	10	0.22	1	06/28/16 03:06	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 03:06	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 03:06	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 03:06	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 03:06	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 03:06	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 03:06	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 03:06	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 03:06	
Styrene	5.0 U	5.0	0.20	1	06/28/16 03:06	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 03:06	
Toluene	5.0 U	5.0	0.20	1	06/28/16 03:06	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 03:06	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 03:06	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 03:06	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 03:06	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 03:06	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 03:06	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 03:06	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 03:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/28/16 03:06	
Dibromofluoromethane	107	89 - 119	06/28/16 03:06	
Toluene-d8	102	87 - 121	06/28/16 03:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water
Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.58	5.2	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/28/16 03:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/28/16 03:30	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/28/16 03:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/28/16 03:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/28/16 03:30	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/28/16 03:30	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/28/16 03:30	
2-Butanone (MEK)	10 U	10	0.81	1	06/28/16 03:30	
2-Hexanone	10 U	10	1.7	1	06/28/16 03:30	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/28/16 03:30	
Acetone	10 U	10	1.3	1	06/28/16 03:30	
Benzene	5.0 U	5.0	0.20	1	06/28/16 03:30	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/28/16 03:30	
Bromoform	5.0 U	5.0	0.42	1	06/28/16 03:30	
Bromomethane	5.0 U	5.0	0.29	1	06/28/16 03:30	
Carbon Disulfide	10 U	10	0.22	1	06/28/16 03:30	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/28/16 03:30	
Chlorobenzene	5.0 U	5.0	0.29	1	06/28/16 03:30	
Chloroethane	5.0 U	5.0	0.24	1	06/28/16 03:30	
Chloroform	5.0 U	5.0	0.25	1	06/28/16 03:30	
Chloromethane	5.0 U	5.0	0.21	1	06/28/16 03:30	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/28/16 03:30	
Dichloromethane	5.0 U	5.0	0.60	1	06/28/16 03:30	
Ethylbenzene	5.0 U	5.0	0.20	1	06/28/16 03:30	
Styrene	5.0 U	5.0	0.20	1	06/28/16 03:30	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/28/16 03:30	
Toluene	5.0 U	5.0	0.20	1	06/28/16 03:30	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/28/16 03:30	
Vinyl Acetate	10 U	10	1.1	1	06/28/16 03:30	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/28/16 03:30	
Xylenes, Total	5.0 U	5.0	0.53	1	06/28/16 03:30	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/28/16 03:30	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/28/16 03:30	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/28/16 03:30	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/28/16 03:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/28/16 03:30	
Dibromofluoromethane	102	89 - 119	06/28/16 03:30	
Toluene-d8	103	87 - 121	06/28/16 03:30	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 00:00
Date Received: 06/23/16 14:45

Sample Name: TB-9954-062216-SG
Lab Code: R1606601-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/27/16 23:05	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/27/16 23:05	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/27/16 23:05	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/27/16 23:05	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/27/16 23:05	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/27/16 23:05	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/27/16 23:05	
2-Butanone (MEK)	10 U	10	0.81	1	06/27/16 23:05	
2-Hexanone	10 U	10	1.7	1	06/27/16 23:05	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/27/16 23:05	
Acetone	10 U	10	1.3	1	06/27/16 23:05	
Benzene	5.0 U	5.0	0.20	1	06/27/16 23:05	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/27/16 23:05	
Bromoform	5.0 U	5.0	0.42	1	06/27/16 23:05	
Bromomethane	5.0 U	5.0	0.29	1	06/27/16 23:05	
Carbon Disulfide	10 U	10	0.22	1	06/27/16 23:05	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/27/16 23:05	
Chlorobenzene	5.0 U	5.0	0.29	1	06/27/16 23:05	
Chloroethane	5.0 U	5.0	0.24	1	06/27/16 23:05	
Chloroform	5.0 U	5.0	0.25	1	06/27/16 23:05	
Chloromethane	5.0 U	5.0	0.21	1	06/27/16 23:05	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/27/16 23:05	
Dichloromethane	5.0 U	5.0	0.60	1	06/27/16 23:05	
Ethylbenzene	5.0 U	5.0	0.20	1	06/27/16 23:05	
Styrene	5.0 U	5.0	0.20	1	06/27/16 23:05	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/27/16 23:05	
Toluene	5.0 U	5.0	0.20	1	06/27/16 23:05	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/27/16 23:05	
Vinyl Acetate	10 U	10	1.1	1	06/27/16 23:05	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/27/16 23:05	
Xylenes, Total	5.0 U	5.0	0.53	1	06/27/16 23:05	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/27/16 23:05	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/27/16 23:05	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/27/16 23:05	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/27/16 23:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/27/16 23:05	
Dibromofluoromethane	104	89 - 119	06/27/16 23:05	
Toluene-d8	100	87 - 121	06/27/16 23:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 00:00
Date Received: 06/23/16 14:45

Sample Name: TB-9954-062216-SG
Lab Code: R1606601-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 12:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/24/16 11:38	6/23/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/24/16 11:38	6/23/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/24/16 11:38	6/23/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/24/16 11:38	6/23/16	
2,4-Dinitrophenol	47 U	47	20	1	06/24/16 11:38	6/23/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/24/16 11:38	6/23/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/24/16 11:38	6/23/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
2-Nitroaniline	47 U	47	9.1	1	06/24/16 11:38	6/23/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/24/16 11:38	6/23/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/24/16 11:38	6/23/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/24/16 11:38	6/23/16	
3-Nitroaniline	47 U	47	7.7	1	06/24/16 11:38	6/23/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/24/16 11:38	6/23/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/24/16 11:38	6/23/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/24/16 11:38	6/23/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/24/16 11:38	6/23/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/24/16 11:38	6/23/16	
4-Nitroaniline	47 U	47	7.8	1	06/24/16 11:38	6/23/16	
4-Nitrophenol	47 U	47	5.9	1	06/24/16 11:38	6/23/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Anthracene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Benzoic Acid	47 U	47	7.9	1	06/24/16 11:38	6/23/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/24/16 11:38	6/23/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/24/16 11:38	6/23/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/24/16 11:38	6/23/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/24/16 11:38	6/23/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/24/16 11:38	6/23/16	
Chrysene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 12:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/24/16 11:38	6/23/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/24/16 11:38	6/23/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Fluorene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/24/16 11:38	6/23/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/24/16 11:38	6/23/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/24/16 11:38	6/23/16	
Isophorone	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/24/16 11:38	6/23/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Naphthalene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/24/16 11:38	6/23/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/24/16 11:38	6/23/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Phenol	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	
Pyrene	9.4 U	9.4	1.0	1	06/24/16 11:38	6/23/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	96	35 - 141	06/24/16 11:38	
2-Fluorobiphenyl	80	31 - 118	06/24/16 11:38	
2-Fluorophenol	39	10 - 105	06/24/16 11:38	
Nitrobenzene-d5	74	31 - 110	06/24/16 11:38	
Phenol-d6	27	10 - 107	06/24/16 11:38	
p-Terphenyl-d14	96	30 - 133	06/24/16 11:38	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	21	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.22	59	JN
056362-87-9	1H-Indene, 1-ethylideneoctahydro-7a-methyl	7.37	7.7	JN
013798-23-7	-, cis-Sulfur	7.92	8.1	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 11:15
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/24/16 12:07	6/23/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/24/16 12:07	6/23/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/24/16 12:07	6/23/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/24/16 12:07	6/23/16	
2,4-Dinitrophenol	47 U	47	20	1	06/24/16 12:07	6/23/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/24/16 12:07	6/23/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/24/16 12:07	6/23/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
2-Nitroaniline	47 U	47	9.1	1	06/24/16 12:07	6/23/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/24/16 12:07	6/23/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/24/16 12:07	6/23/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/24/16 12:07	6/23/16	
3-Nitroaniline	47 U	47	7.7	1	06/24/16 12:07	6/23/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/24/16 12:07	6/23/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/24/16 12:07	6/23/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/24/16 12:07	6/23/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/24/16 12:07	6/23/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/24/16 12:07	6/23/16	
4-Nitroaniline	47 U	47	7.8	1	06/24/16 12:07	6/23/16	
4-Nitrophenol	47 U	47	5.9	1	06/24/16 12:07	6/23/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Anthracene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Benzoic Acid	47 U	47	7.9	1	06/24/16 12:07	6/23/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/24/16 12:07	6/23/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/24/16 12:07	6/23/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/24/16 12:07	6/23/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/24/16 12:07	6/23/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/24/16 12:07	6/23/16	
Chrysene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 11:15
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/24/16 12:07	6/23/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/24/16 12:07	6/23/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Fluorene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/24/16 12:07	6/23/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/24/16 12:07	6/23/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/24/16 12:07	6/23/16	
Isophorone	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/24/16 12:07	6/23/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Naphthalene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/24/16 12:07	6/23/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/24/16 12:07	6/23/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Phenol	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	
Pyrene	9.4 U	9.4	1.0	1	06/24/16 12:07	6/23/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	35 - 141	06/24/16 12:07	
2-Fluorobiphenyl	78	31 - 118	06/24/16 12:07	
2-Fluorophenol	38	10 - 105	06/24/16 12:07	
Nitrobenzene-d5	75	31 - 110	06/24/16 12:07	
Phenol-d6	28	10 - 107	06/24/16 12:07	
p-Terphenyl-d14	95	30 - 133	06/24/16 12:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.15	19	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.22	59	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.38	6.2	JN
	unknown	9.57	6.8	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/20/16 15:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/24/16 12:35	6/23/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/24/16 12:35	6/23/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/24/16 12:35	6/23/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/24/16 12:35	6/23/16	
2,4-Dinitrophenol	47 U	47	20	1	06/24/16 12:35	6/23/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/24/16 12:35	6/23/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/24/16 12:35	6/23/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
2-Nitroaniline	47 U	47	9.1	1	06/24/16 12:35	6/23/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/24/16 12:35	6/23/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/24/16 12:35	6/23/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/24/16 12:35	6/23/16	
3-Nitroaniline	47 U	47	7.7	1	06/24/16 12:35	6/23/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/24/16 12:35	6/23/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/24/16 12:35	6/23/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/24/16 12:35	6/23/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/24/16 12:35	6/23/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/24/16 12:35	6/23/16	
4-Nitroaniline	47 U	47	7.8	1	06/24/16 12:35	6/23/16	
4-Nitrophenol	47 U	47	5.9	1	06/24/16 12:35	6/23/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Anthracene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Benzoic Acid	47 U	47	7.9	1	06/24/16 12:35	6/23/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/24/16 12:35	6/23/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/24/16 12:35	6/23/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/24/16 12:35	6/23/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/24/16 12:35	6/23/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/24/16 12:35	6/23/16	
Chrysene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/20/16 15:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/24/16 12:35	6/23/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/24/16 12:35	6/23/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Fluorene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/24/16 12:35	6/23/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/24/16 12:35	6/23/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/24/16 12:35	6/23/16	
Isophorone	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/24/16 12:35	6/23/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Naphthalene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/24/16 12:35	6/23/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/24/16 12:35	6/23/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Phenol	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	
Pyrene	9.4 U	9.4	1.0	1	06/24/16 12:35	6/23/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	35 - 141	06/24/16 12:35	
2-Fluorobiphenyl	73	31 - 118	06/24/16 12:35	
2-Fluorophenol	36	10 - 105	06/24/16 12:35	
Nitrobenzene-d5	69	31 - 110	06/24/16 12:35	
Phenol-d6	26	10 - 107	06/24/16 12:35	
p-Terphenyl-d14	80	30 - 133	06/24/16 12:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	19	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.23	55	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.38	10	JN
013798-23-7	Sulfur	7.98	12	JN
	unknown	9.58	6.0	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:55
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/24/16 13:04	6/23/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/24/16 13:04	6/23/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/24/16 13:04	6/23/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/24/16 13:04	6/23/16	
2,4-Dinitrophenol	47 U	47	20	1	06/24/16 13:04	6/23/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/24/16 13:04	6/23/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/24/16 13:04	6/23/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
2-Nitroaniline	47 U	47	9.1	1	06/24/16 13:04	6/23/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/24/16 13:04	6/23/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/24/16 13:04	6/23/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/24/16 13:04	6/23/16	
3-Nitroaniline	47 U	47	7.7	1	06/24/16 13:04	6/23/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/24/16 13:04	6/23/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/24/16 13:04	6/23/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/24/16 13:04	6/23/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/24/16 13:04	6/23/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/24/16 13:04	6/23/16	
4-Nitroaniline	47 U	47	7.8	1	06/24/16 13:04	6/23/16	
4-Nitrophenol	47 U	47	5.9	1	06/24/16 13:04	6/23/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Anthracene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Benzoic Acid	47 U	47	7.9	1	06/24/16 13:04	6/23/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/24/16 13:04	6/23/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/24/16 13:04	6/23/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/24/16 13:04	6/23/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/24/16 13:04	6/23/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/24/16 13:04	6/23/16	
Chrysene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:55
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/24/16 13:04	6/23/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/24/16 13:04	6/23/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Fluorene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/24/16 13:04	6/23/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/24/16 13:04	6/23/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/24/16 13:04	6/23/16	
Isophorone	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/24/16 13:04	6/23/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Naphthalene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/24/16 13:04	6/23/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/24/16 13:04	6/23/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Phenol	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	
Pyrene	9.4 U	9.4	1.0	1	06/24/16 13:04	6/23/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	95	35 - 141	06/24/16 13:04	
2-Fluorobiphenyl	81	31 - 118	06/24/16 13:04	
2-Fluorophenol	39	10 - 105	06/24/16 13:04	
Nitrobenzene-d5	76	31 - 110	06/24/16 13:04	
Phenol-d6	29	10 - 107	06/24/16 13:04	
p-Terphenyl-d14	94	30 - 133	06/24/16 13:04	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	21	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.22	59	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.37	7.2	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:05
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/24/16 13:32	6/23/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/24/16 13:32	6/23/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/24/16 13:32	6/23/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/24/16 13:32	6/23/16	
2,4-Dinitrophenol	47 U	47	20	1	06/24/16 13:32	6/23/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/24/16 13:32	6/23/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/24/16 13:32	6/23/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
2-Nitroaniline	47 U	47	9.1	1	06/24/16 13:32	6/23/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/24/16 13:32	6/23/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/24/16 13:32	6/23/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/24/16 13:32	6/23/16	
3-Nitroaniline	47 U	47	7.7	1	06/24/16 13:32	6/23/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/24/16 13:32	6/23/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/24/16 13:32	6/23/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/24/16 13:32	6/23/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/24/16 13:32	6/23/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/24/16 13:32	6/23/16	
4-Nitroaniline	47 U	47	7.8	1	06/24/16 13:32	6/23/16	
4-Nitrophenol	47 U	47	5.9	1	06/24/16 13:32	6/23/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Anthracene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Benzoic Acid	47 U	47	7.9	1	06/24/16 13:32	6/23/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/24/16 13:32	6/23/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/24/16 13:32	6/23/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/24/16 13:32	6/23/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/24/16 13:32	6/23/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/24/16 13:32	6/23/16	
Chrysene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:05
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/24/16 13:32	6/23/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/24/16 13:32	6/23/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Fluorene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/24/16 13:32	6/23/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/24/16 13:32	6/23/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/24/16 13:32	6/23/16	
Isophorone	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/24/16 13:32	6/23/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Naphthalene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/24/16 13:32	6/23/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/24/16 13:32	6/23/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Phenol	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	
Pyrene	9.4 U	9.4	1.0	1	06/24/16 13:32	6/23/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	35 - 141	06/24/16 13:32	
2-Fluorobiphenyl	74	31 - 118	06/24/16 13:32	
2-Fluorophenol	36	10 - 105	06/24/16 13:32	
Nitrobenzene-d5	70	31 - 110	06/24/16 13:32	
Phenol-d6	28	10 - 107	06/24/16 13:32	
p-Terphenyl-d14	94	30 - 133	06/24/16 13:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	28	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.23	57	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 13:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/24/16 14:01	6/23/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/24/16 14:01	6/23/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/24/16 14:01	6/23/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/24/16 14:01	6/23/16	
2,4-Dinitrophenol	47 U	47	20	1	06/24/16 14:01	6/23/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/24/16 14:01	6/23/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/24/16 14:01	6/23/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
2-Nitroaniline	47 U	47	9.1	1	06/24/16 14:01	6/23/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/24/16 14:01	6/23/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/24/16 14:01	6/23/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/24/16 14:01	6/23/16	
3-Nitroaniline	47 U	47	7.7	1	06/24/16 14:01	6/23/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/24/16 14:01	6/23/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/24/16 14:01	6/23/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/24/16 14:01	6/23/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/24/16 14:01	6/23/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/24/16 14:01	6/23/16	
4-Nitroaniline	47 U	47	7.8	1	06/24/16 14:01	6/23/16	
4-Nitrophenol	47 U	47	5.9	1	06/24/16 14:01	6/23/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Anthracene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Benzoic Acid	47 U	47	7.9	1	06/24/16 14:01	6/23/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/24/16 14:01	6/23/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/24/16 14:01	6/23/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/24/16 14:01	6/23/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/24/16 14:01	6/23/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/24/16 14:01	6/23/16	
Chrysene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 13:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/24/16 14:01	6/23/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/24/16 14:01	6/23/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Fluorene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/24/16 14:01	6/23/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/24/16 14:01	6/23/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/24/16 14:01	6/23/16	
Isophorone	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/24/16 14:01	6/23/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Naphthalene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/24/16 14:01	6/23/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/24/16 14:01	6/23/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Phenol	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	
Pyrene	9.4 U	9.4	1.0	1	06/24/16 14:01	6/23/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	06/24/16 14:01	
2-Fluorobiphenyl	77	31 - 118	06/24/16 14:01	
2-Fluorophenol	38	10 - 105	06/24/16 14:01	
Nitrobenzene-d5	70	31 - 110	06/24/16 14:01	
Phenol-d6	26	10 - 107	06/24/16 14:01	
p-Terphenyl-d14	79	30 - 133	06/24/16 14:01	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	21	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.22	57	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.38	8.3	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/28/16 15:30	6/27/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/28/16 15:30	6/27/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/28/16 15:30	6/27/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/28/16 15:30	6/27/16	
2,4-Dinitrophenol	47 U	47	20	1	06/28/16 15:30	6/27/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/28/16 15:30	6/27/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/28/16 15:30	6/27/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
2-Nitroaniline	47 U	47	9.1	1	06/28/16 15:30	6/27/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/28/16 15:30	6/27/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/28/16 15:30	6/27/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/28/16 15:30	6/27/16	
3-Nitroaniline	47 U	47	7.7	1	06/28/16 15:30	6/27/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/28/16 15:30	6/27/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/28/16 15:30	6/27/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/28/16 15:30	6/27/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/28/16 15:30	6/27/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/28/16 15:30	6/27/16	
4-Nitroaniline	47 U	47	7.8	1	06/28/16 15:30	6/27/16	
4-Nitrophenol	47 U	47	5.9	1	06/28/16 15:30	6/27/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Anthracene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Benzoic Acid	47 U	47	7.9	1	06/28/16 15:30	6/27/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/28/16 15:30	6/27/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/28/16 15:30	6/27/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/28/16 15:30	6/27/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/28/16 15:30	6/27/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/28/16 15:30	6/27/16	
Chrysene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/28/16 15:30	6/27/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/28/16 15:30	6/27/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Fluorene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/28/16 15:30	6/27/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/28/16 15:30	6/27/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/28/16 15:30	6/27/16	
Isophorone	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/28/16 15:30	6/27/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Naphthalene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/28/16 15:30	6/27/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/28/16 15:30	6/27/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Phenol	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	
Pyrene	9.4 U	9.4	1.0	1	06/28/16 15:30	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	06/28/16 15:30	
2-Fluorobiphenyl	65	31 - 118	06/28/16 15:30	
2-Fluorophenol	35	10 - 105	06/28/16 15:30	
Nitrobenzene-d5	68	31 - 110	06/28/16 15:30	
Phenol-d6	23	10 - 107	06/28/16 15:30	
p-Terphenyl-d14	82	30 - 133	06/28/16 15:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	18	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.23	57	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 16:35	6/30/16	*
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 16:35	6/30/16	*
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 16:35	6/30/16	*
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 16:35	6/30/16	*
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 16:35	6/30/16	*
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 16:35	6/30/16	*
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 16:35	6/30/16	*
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
2-Nitroaniline	47 U	47	9.1	1	07/05/16 16:35	6/30/16	*
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 16:35	6/30/16	*
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 16:35	6/30/16	*
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 16:35	6/30/16	*
3-Nitroaniline	47 U	47	7.7	1	07/05/16 16:35	6/30/16	*
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 16:35	6/30/16	*
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 16:35	6/30/16	*
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 16:35	6/30/16	*
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 16:35	6/30/16	*
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 16:35	6/30/16	*
4-Nitroaniline	47 U	47	7.8	1	07/05/16 16:35	6/30/16	*
4-Nitrophenol	47 U	47	5.9	1	07/05/16 16:35	6/30/16	*
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Anthracene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Benzoic Acid	47 U	47	7.9	1	07/05/16 16:35	6/30/16	*
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 16:35	6/30/16	*
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 16:35	6/30/16	*
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 16:35	6/30/16	*
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 16:35	6/30/16	*
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 16:35	6/30/16	*
Chrysene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 16:35	6/30/16	*
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 16:35	6/30/16	*
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Fluorene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 16:35	6/30/16	*
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 16:35	6/30/16	*
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 16:35	6/30/16	*
Isophorone	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 16:35	6/30/16	*
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 16:35	6/30/16	*
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 16:35	6/30/16	*
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Phenol	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*
Pyrene	9.4 U	9.4	1.0	1	07/05/16 16:35	6/30/16	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	100	35 - 141	07/05/16 16:35	
2-Fluorobiphenyl	83	31 - 118	07/05/16 16:35	
2-Fluorophenol	44	10 - 105	07/05/16 16:35	
Nitrobenzene-d5	80	31 - 110	07/05/16 16:35	
Phenol-d6	32	10 - 107	07/05/16 16:35	
p-Terphenyl-d14	100	30 - 133	07/05/16 16:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	unknown	1.82	8.4	J
	Cyclohexane	2.23	23	JN
	unknown	2.32	76	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/28/16 15:59	6/27/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/28/16 15:59	6/27/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/28/16 15:59	6/27/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/28/16 15:59	6/27/16	
2,4-Dinitrophenol	47 U	47	20	1	06/28/16 15:59	6/27/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/28/16 15:59	6/27/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/28/16 15:59	6/27/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
2-Nitroaniline	47 U	47	9.1	1	06/28/16 15:59	6/27/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/28/16 15:59	6/27/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/28/16 15:59	6/27/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/28/16 15:59	6/27/16	
3-Nitroaniline	47 U	47	7.7	1	06/28/16 15:59	6/27/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/28/16 15:59	6/27/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/28/16 15:59	6/27/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/28/16 15:59	6/27/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/28/16 15:59	6/27/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/28/16 15:59	6/27/16	
4-Nitroaniline	47 U	47	7.8	1	06/28/16 15:59	6/27/16	
4-Nitrophenol	47 U	47	5.9	1	06/28/16 15:59	6/27/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Anthracene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Benzoic Acid	47 U	47	7.9	1	06/28/16 15:59	6/27/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/28/16 15:59	6/27/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/28/16 15:59	6/27/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/28/16 15:59	6/27/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/28/16 15:59	6/27/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/28/16 15:59	6/27/16	
Chrysene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/28/16 15:59	6/27/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/28/16 15:59	6/27/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Fluorene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/28/16 15:59	6/27/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/28/16 15:59	6/27/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/28/16 15:59	6/27/16	
Isophorone	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/28/16 15:59	6/27/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Naphthalene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/28/16 15:59	6/27/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/28/16 15:59	6/27/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Phenol	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	
Pyrene	9.4 U	9.4	1.0	1	06/28/16 15:59	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	06/28/16 15:59	
2-Fluorobiphenyl	68	31 - 118	06/28/16 15:59	
2-Fluorophenol	32	10 - 105	06/28/16 15:59	
Nitrobenzene-d5	66	31 - 110	06/28/16 15:59	
Phenol-d6	23	10 - 107	06/28/16 15:59	
p-Terphenyl-d14	88	30 - 133	06/28/16 15:59	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	15	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.23	50	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 17:03	6/30/16	*
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 17:03	6/30/16	*
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 17:03	6/30/16	*
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 17:03	6/30/16	*
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 17:03	6/30/16	*
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 17:03	6/30/16	*
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 17:03	6/30/16	*
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
2-Nitroaniline	47 U	47	9.1	1	07/05/16 17:03	6/30/16	*
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 17:03	6/30/16	*
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 17:03	6/30/16	*
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 17:03	6/30/16	*
3-Nitroaniline	47 U	47	7.7	1	07/05/16 17:03	6/30/16	*
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 17:03	6/30/16	*
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 17:03	6/30/16	*
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 17:03	6/30/16	*
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 17:03	6/30/16	*
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 17:03	6/30/16	*
4-Nitroaniline	47 U	47	7.8	1	07/05/16 17:03	6/30/16	*
4-Nitrophenol	47 U	47	5.9	1	07/05/16 17:03	6/30/16	*
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Anthracene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Benzoic Acid	47 U	47	7.9	1	07/05/16 17:03	6/30/16	*
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 17:03	6/30/16	*
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 17:03	6/30/16	*
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 17:03	6/30/16	*
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 17:03	6/30/16	*
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 17:03	6/30/16	*
Chrysene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 17:03	6/30/16	*
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 17:03	6/30/16	*
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Fluorene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 17:03	6/30/16	*
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 17:03	6/30/16	*
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 17:03	6/30/16	*
Isophorone	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 17:03	6/30/16	*
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 17:03	6/30/16	*
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 17:03	6/30/16	*
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Phenol	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*
Pyrene	9.4 U	9.4	1.0	1	07/05/16 17:03	6/30/16	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	96	35 - 141	07/05/16 17:03	
2-Fluorobiphenyl	78	31 - 118	07/05/16 17:03	
2-Fluorophenol	37	10 - 105	07/05/16 17:03	
Nitrobenzene-d5	72	31 - 110	07/05/16 17:03	
Phenol-d6	26	10 - 107	07/05/16 17:03	
p-Terphenyl-d14	98	30 - 133	07/05/16 17:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	unknown	1.82	10	J
	Cyclohexane	2.23	21	JN
	unknown	2.32	67	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/28/16 16:28	6/27/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/28/16 16:28	6/27/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/28/16 16:28	6/27/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/28/16 16:28	6/27/16	
2,4-Dinitrophenol	47 U	47	20	1	06/28/16 16:28	6/27/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/28/16 16:28	6/27/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/28/16 16:28	6/27/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
2-Nitroaniline	47 U	47	9.1	1	06/28/16 16:28	6/27/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/28/16 16:28	6/27/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/28/16 16:28	6/27/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/28/16 16:28	6/27/16	
3-Nitroaniline	47 U	47	7.7	1	06/28/16 16:28	6/27/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/28/16 16:28	6/27/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/28/16 16:28	6/27/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/28/16 16:28	6/27/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/28/16 16:28	6/27/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/28/16 16:28	6/27/16	
4-Nitroaniline	47 U	47	7.8	1	06/28/16 16:28	6/27/16	
4-Nitrophenol	47 U	47	5.9	1	06/28/16 16:28	6/27/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Anthracene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Benzoic Acid	47 U	47	7.9	1	06/28/16 16:28	6/27/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/28/16 16:28	6/27/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/28/16 16:28	6/27/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/28/16 16:28	6/27/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/28/16 16:28	6/27/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/28/16 16:28	6/27/16	
Chrysene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/28/16 16:28	6/27/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/28/16 16:28	6/27/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Fluorene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/28/16 16:28	6/27/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/28/16 16:28	6/27/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/28/16 16:28	6/27/16	
Isophorone	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/28/16 16:28	6/27/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Naphthalene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/28/16 16:28	6/27/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/28/16 16:28	6/27/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Phenol	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	
Pyrene	9.4 U	9.4	1.0	1	06/28/16 16:28	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	35 - 141	06/28/16 16:28	
2-Fluorobiphenyl	75	31 - 118	06/28/16 16:28	
2-Fluorophenol	39	10 - 105	06/28/16 16:28	
Nitrobenzene-d5	70	31 - 110	06/28/16 16:28	
Phenol-d6	28	10 - 107	06/28/16 16:28	
p-Terphenyl-d14	67	30 - 133	06/28/16 16:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	21	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.23	60	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 17:30	6/30/16	*
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 17:30	6/30/16	*
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 17:30	6/30/16	*
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 17:30	6/30/16	*
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 17:30	6/30/16	*
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 17:30	6/30/16	*
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 17:30	6/30/16	*
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
2-Nitroaniline	47 U	47	9.1	1	07/05/16 17:30	6/30/16	*
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 17:30	6/30/16	*
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 17:30	6/30/16	*
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 17:30	6/30/16	*
3-Nitroaniline	47 U	47	7.7	1	07/05/16 17:30	6/30/16	*
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 17:30	6/30/16	*
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 17:30	6/30/16	*
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 17:30	6/30/16	*
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 17:30	6/30/16	*
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 17:30	6/30/16	*
4-Nitroaniline	47 U	47	7.8	1	07/05/16 17:30	6/30/16	*
4-Nitrophenol	47 U	47	5.9	1	07/05/16 17:30	6/30/16	*
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Anthracene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Benzoic Acid	47 U	47	7.9	1	07/05/16 17:30	6/30/16	*
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 17:30	6/30/16	*
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 17:30	6/30/16	*
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 17:30	6/30/16	*
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 17:30	6/30/16	*
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 17:30	6/30/16	*
Chrysene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 17:30	6/30/16	*
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 17:30	6/30/16	*
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Fluorene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 17:30	6/30/16	*
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 17:30	6/30/16	*
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 17:30	6/30/16	*
Isophorone	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 17:30	6/30/16	*
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 17:30	6/30/16	*
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 17:30	6/30/16	*
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Phenol	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*
Pyrene	9.4 U	9.4	1.0	1	07/05/16 17:30	6/30/16	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	35 - 141	07/05/16 17:30	
2-Fluorobiphenyl	73	31 - 118	07/05/16 17:30	
2-Fluorophenol	37	10 - 105	07/05/16 17:30	
Nitrobenzene-d5	68	31 - 110	07/05/16 17:30	
Phenol-d6	27	10 - 107	07/05/16 17:30	
p-Terphenyl-d14	71	30 - 133	07/05/16 17:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	9.8	J
000110-82-7	Cyclohexane	2.23	18	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	63	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/28/16 16:57	6/27/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/28/16 16:57	6/27/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/28/16 16:57	6/27/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/28/16 16:57	6/27/16	
2,4-Dinitrophenol	47 U	47	20	1	06/28/16 16:57	6/27/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/28/16 16:57	6/27/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/28/16 16:57	6/27/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
2-Nitroaniline	47 U	47	9.1	1	06/28/16 16:57	6/27/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/28/16 16:57	6/27/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/28/16 16:57	6/27/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/28/16 16:57	6/27/16	
3-Nitroaniline	47 U	47	7.7	1	06/28/16 16:57	6/27/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/28/16 16:57	6/27/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/28/16 16:57	6/27/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/28/16 16:57	6/27/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/28/16 16:57	6/27/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/28/16 16:57	6/27/16	
4-Nitroaniline	47 U	47	7.8	1	06/28/16 16:57	6/27/16	
4-Nitrophenol	47 U	47	5.9	1	06/28/16 16:57	6/27/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Anthracene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Benzoic Acid	47 U	47	7.9	1	06/28/16 16:57	6/27/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/28/16 16:57	6/27/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/28/16 16:57	6/27/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/28/16 16:57	6/27/16	
Bis(2-ethylhexyl) Phthalate	1.2 J	9.4	1.2	1	06/28/16 16:57	6/27/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/28/16 16:57	6/27/16	
Chrysene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/28/16 16:57	6/27/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/28/16 16:57	6/27/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Fluorene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/28/16 16:57	6/27/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/28/16 16:57	6/27/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/28/16 16:57	6/27/16	
Isophorone	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/28/16 16:57	6/27/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Naphthalene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/28/16 16:57	6/27/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/28/16 16:57	6/27/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Phenol	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	
Pyrene	9.4 U	9.4	1.0	1	06/28/16 16:57	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	06/28/16 16:57	
2-Fluorobiphenyl	69	31 - 118	06/28/16 16:57	
2-Fluorophenol	33	10 - 105	06/28/16 16:57	
Nitrobenzene-d5	65	31 - 110	06/28/16 16:57	
Phenol-d6	24	10 - 107	06/28/16 16:57	
p-Terphenyl-d14	71	30 - 133	06/28/16 16:57	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	16	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.22	53	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 17:58	6/30/16	*
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 17:58	6/30/16	*
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 17:58	6/30/16	*
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 17:58	6/30/16	*
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 17:58	6/30/16	*
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 17:58	6/30/16	*
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 17:58	6/30/16	*
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
2-Nitroaniline	47 U	47	9.1	1	07/05/16 17:58	6/30/16	*
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 17:58	6/30/16	*
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 17:58	6/30/16	*
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 17:58	6/30/16	*
3-Nitroaniline	47 U	47	7.7	1	07/05/16 17:58	6/30/16	*
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 17:58	6/30/16	*
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 17:58	6/30/16	*
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 17:58	6/30/16	*
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 17:58	6/30/16	*
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 17:58	6/30/16	*
4-Nitroaniline	47 U	47	7.8	1	07/05/16 17:58	6/30/16	*
4-Nitrophenol	47 U	47	5.9	1	07/05/16 17:58	6/30/16	*
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Anthracene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Benzoic Acid	47 U	47	7.9	1	07/05/16 17:58	6/30/16	*
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 17:58	6/30/16	*
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 17:58	6/30/16	*
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 17:58	6/30/16	*
Bis(2-ethylhexyl) Phthalate	1.4 J	9.4	1.2	1	07/05/16 17:58	6/30/16	*
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 17:58	6/30/16	*
Chrysene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 17:58	6/30/16	*
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 17:58	6/30/16	*
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Fluorene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 17:58	6/30/16	*
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 17:58	6/30/16	*
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 17:58	6/30/16	*
Isophorone	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 17:58	6/30/16	*
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 17:58	6/30/16	*
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 17:58	6/30/16	*
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Phenol	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*
Pyrene	9.4 U	9.4	1.0	1	07/05/16 17:58	6/30/16	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	35 - 141	07/05/16 17:58	
2-Fluorobiphenyl	76	31 - 118	07/05/16 17:58	
2-Fluorophenol	37	10 - 105	07/05/16 17:58	
Nitrobenzene-d5	70	31 - 110	07/05/16 17:58	
Phenol-d6	26	10 - 107	07/05/16 17:58	
p-Terphenyl-d14	83	30 - 133	07/05/16 17:58	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.83	16	J
000110-82-7	Cyclohexane	2.23	17	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	62	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	06/28/16 17:25	6/27/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	06/28/16 17:25	6/27/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	06/28/16 17:25	6/27/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	06/28/16 17:25	6/27/16	
2,4-Dinitrophenol	47 U	47	20	1	06/28/16 17:25	6/27/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	06/28/16 17:25	6/27/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	06/28/16 17:25	6/27/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
2-Methylphenol	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
2-Nitroaniline	47 U	47	9.1	1	06/28/16 17:25	6/27/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	06/28/16 17:25	6/27/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	06/28/16 17:25	6/27/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	06/28/16 17:25	6/27/16	
3-Nitroaniline	47 U	47	7.7	1	06/28/16 17:25	6/27/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	06/28/16 17:25	6/27/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	06/28/16 17:25	6/27/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	06/28/16 17:25	6/27/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	06/28/16 17:25	6/27/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	06/28/16 17:25	6/27/16	
4-Nitroaniline	47 U	47	7.8	1	06/28/16 17:25	6/27/16	
4-Nitrophenol	47 U	47	5.9	1	06/28/16 17:25	6/27/16	
Acenaphthene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Acenaphthylene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Anthracene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Benzoic Acid	47 U	47	7.9	1	06/28/16 17:25	6/27/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	06/28/16 17:25	6/27/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	06/28/16 17:25	6/27/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	06/28/16 17:25	6/27/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	06/28/16 17:25	6/27/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	06/28/16 17:25	6/27/16	
Chrysene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	06/28/16 17:25	6/27/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	06/28/16 17:25	6/27/16	
Dibenzofuran	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Fluoranthene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Fluorene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	06/28/16 17:25	6/27/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Hexachloroethane	9.4 U	9.4	1.2	1	06/28/16 17:25	6/27/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	06/28/16 17:25	6/27/16	
Isophorone	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	06/28/16 17:25	6/27/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Naphthalene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Nitrobenzene	9.4 U	9.4	1.6	1	06/28/16 17:25	6/27/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	06/28/16 17:25	6/27/16	
Phenanthrene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Phenol	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	
Pyrene	9.4 U	9.4	1.0	1	06/28/16 17:25	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	35 - 141	06/28/16 17:25	
2-Fluorobiphenyl	67	31 - 118	06/28/16 17:25	
2-Fluorophenol	31	10 - 105	06/28/16 17:25	
Nitrobenzene-d5	64	31 - 110	06/28/16 17:25	
Phenol-d6	23	10 - 107	06/28/16 17:25	
p-Terphenyl-d14	87	30 - 133	06/28/16 17:25	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.16	16	JN
	unknown	2.23	52	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 18:25	6/30/16	*
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 18:25	6/30/16	*
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 18:25	6/30/16	*
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 18:25	6/30/16	*
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 18:25	6/30/16	*
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 18:25	6/30/16	*
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 18:25	6/30/16	*
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
2-Nitroaniline	47 U	47	9.1	1	07/05/16 18:25	6/30/16	*
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 18:25	6/30/16	*
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 18:25	6/30/16	*
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 18:25	6/30/16	*
3-Nitroaniline	47 U	47	7.7	1	07/05/16 18:25	6/30/16	*
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 18:25	6/30/16	*
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 18:25	6/30/16	*
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 18:25	6/30/16	*
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 18:25	6/30/16	*
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 18:25	6/30/16	*
4-Nitroaniline	47 U	47	7.8	1	07/05/16 18:25	6/30/16	*
4-Nitrophenol	47 U	47	5.9	1	07/05/16 18:25	6/30/16	*
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Anthracene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Benzoic Acid	47 U	47	7.9	1	07/05/16 18:25	6/30/16	*
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 18:25	6/30/16	*
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 18:25	6/30/16	*
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 18:25	6/30/16	*
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 18:25	6/30/16	*
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 18:25	6/30/16	*
Chrysene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 18:25	6/30/16	*
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 18:25	6/30/16	*
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Fluorene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 18:25	6/30/16	*
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 18:25	6/30/16	*
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 18:25	6/30/16	*
Isophorone	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 18:25	6/30/16	*
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 18:25	6/30/16	*
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 18:25	6/30/16	*
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Phenol	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*
Pyrene	9.4 U	9.4	1.0	1	07/05/16 18:25	6/30/16	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	99	35 - 141	07/05/16 18:25	
2-Fluorobiphenyl	81	31 - 118	07/05/16 18:25	
2-Fluorophenol	39	10 - 105	07/05/16 18:25	
Nitrobenzene-d5	73	31 - 110	07/05/16 18:25	
Phenol-d6	27	10 - 107	07/05/16 18:25	
p-Terphenyl-d14	98	30 - 133	07/05/16 18:25	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	1.82	15	JN
000110-82-7	Cyclohexane	2.23	19	JN
	unknown	2.32	68	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 12:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 12:06	6/24/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 12:06	6/24/16	
delta-BHC	0.080	0.048	1	07/13/16 12:06	6/24/16	
gamma-BHC (Lindane)	0.064	0.047	1	07/13/16 12:06	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 12:06	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	73	10 - 164	07/13/16 12:06	
Tetrachloro-m-xylene	77	10 - 147	07/13/16 12:06	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 11:15
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 12:35	6/24/16	
alpha-BHC	0.069	0.047	1	07/13/16 12:35	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 12:35	6/24/16	
delta-BHC	0.23	0.048	1	07/13/16 12:35	6/24/16	
gamma-BHC (Lindane)	0.089	0.047	1	07/13/16 12:35	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 12:35	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 164	07/13/16 12:35	
Tetrachloro-m-xylene	73	10 - 147	07/13/16 12:35	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/20/16 15:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 13:05	6/24/16	
alpha-BHC	0.28	0.047	1	07/13/16 13:05	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 13:05	6/24/16	
delta-BHC	0.13	0.048	1	07/13/16 13:05	6/24/16	
gamma-BHC (Lindane)	0.33	0.047	1	07/13/16 13:05	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 13:05	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 164	07/13/16 13:05	
Tetrachloro-m-xylene	60	10 - 147	07/13/16 13:05	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:55
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 13:35	6/24/16	
alpha-BHC	0.050	0.047	1	07/13/16 13:35	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 13:35	6/24/16	
delta-BHC	0.10	0.048	1	07/13/16 13:35	6/24/16	
gamma-BHC (Lindane)	0.080	0.047	1	07/13/16 13:35	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 13:35	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 164	07/13/16 13:35	
Tetrachloro-m-xylene	66	10 - 147	07/13/16 13:35	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:05
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 14:05	6/24/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
delta-BHC	0.048 U	0.048	1	07/13/16 14:05	6/24/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/13/16 14:05	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 14:05	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	31	10 - 164	07/13/16 14:05	
Tetrachloro-m-xylene	60	10 - 147	07/13/16 14:05	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 13:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 15:05	6/24/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
delta-BHC	0.048 U	0.048	1	07/13/16 15:05	6/24/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/13/16 15:05	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 15:05	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	10 - 164	07/13/16 15:05	
Tetrachloro-m-xylene	63	10 - 147	07/13/16 15:05	

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dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
4,4'-DDE	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
4,4'-DDT	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Aldrin	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Dieldrin	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Endosulfan I	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Endosulfan II	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Endrin	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Endrin Ketone	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Heptachlor	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Methoxychlor	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
Toxaphene	0.47 U	0.47	1.0	07/13/16 15:35	6/24/16	
alpha-BHC	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
alpha-Chlordane	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
beta-BHC	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
delta-BHC	0.048 U	0.048	1.0	07/13/16 15:35	6/24/16	
gamma-BHC (Lindane)	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	
gamma-Chlordane	0.047 U	0.047	1.0	07/13/16 15:35	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 164	07/13/16 15:35	
Tetrachloro-m-xylene	74	10 - 147	07/13/16 15:35	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 16:05	6/24/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
delta-BHC	0.048 U	0.048	1	07/13/16 16:05	6/24/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/13/16 16:05	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 16:05	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 164	07/13/16 16:05	
Tetrachloro-m-xylene	76	10 - 147	07/13/16 16:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 16:35	6/24/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
delta-BHC	0.048 U	0.048	1	07/13/16 16:35	6/24/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/13/16 16:35	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 16:35	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	11	10 - 164	07/13/16 16:35	
Tetrachloro-m-xylene	75	10 - 147	07/13/16 16:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Aldrin	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Dieldrin	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Endrin	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Heptachlor	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
Toxaphene	0.47 U	0.47	1	07/13/16 17:05	6/24/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
beta-BHC	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
delta-BHC	0.048 U	0.048	1	07/13/16 17:05	6/24/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/13/16 17:05	6/24/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 17:05	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	32	10 - 164	07/13/16 17:05	
Tetrachloro-m-xylene	76	10 - 147	07/13/16 17:05	

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dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
4,4'-DDE	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
4,4'-DDT	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Aldrin	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Dieldrin	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Endosulfan I	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Endosulfan II	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Endrin	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Endrin Ketone	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Heptachlor	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Methoxychlor	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
Toxaphene	0.47 U	0.47	1	07/13/16 09:36	6/27/16	
alpha-BHC	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
alpha-Chlordane	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
beta-BHC	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
delta-BHC	0.048 U	0.048	1	07/13/16 09:36	6/27/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/13/16 09:36	6/27/16	
gamma-Chlordane	0.047 U	0.047	1	07/13/16 09:36	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 164	07/13/16 09:36	
Tetrachloro-m-xylene	66	10 - 147	07/13/16 09:36	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 12:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-003
Lab Code: R1606601-001

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 12:26	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 12:26	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 12:26	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 12:26	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 12:26	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 12:26	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 12:26	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 149	07/05/16 12:26	
Tetrachloro-m-xylene	79	15 - 131	07/05/16 12:26	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 11:15
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-002
Lab Code: R1606601-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 12:52	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 12:52	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 12:52	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 12:52	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 12:52	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 12:52	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 12:52	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	97	10 - 149	07/05/16 12:52	
Tetrachloro-m-xylene	91	15 - 131	07/05/16 12:52	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/20/16 15:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062016-SG-001
Lab Code: R1606601-003

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 13:18	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 13:18	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 13:18	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 13:18	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 13:18	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 13:18	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 13:18	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 149	07/05/16 13:18	
Tetrachloro-m-xylene	80	15 - 131	07/05/16 13:18	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:55
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-006
Lab Code: R1606601-004

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 13:43	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 13:43	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 13:43	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 13:43	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 13:43	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 13:43	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 13:43	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 149	07/05/16 13:43	
Tetrachloro-m-xylene	71	15 - 131	07/05/16 13:43	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 14:05
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-005
Lab Code: R1606601-005

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 14:09	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 14:09	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 14:09	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 14:09	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 14:09	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 14:09	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 14:09	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	37	10 - 149	07/05/16 14:09	
Tetrachloro-m-xylene	74	15 - 131	07/05/16 14:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/21/16 13:10
Date Received: 06/22/16 15:45

Sample Name: WG-9954-062116-SG-004
Lab Code: R1606601-006

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 14:34	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 14:34	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 14:34	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 14:34	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 14:34	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 14:34	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 14:34	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 149	07/05/16 14:34	
Tetrachloro-m-xylene	66	15 - 131	07/05/16 14:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:14
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-009
Lab Code: R1606601-008

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 15:00	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 15:00	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 15:00	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 15:00	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 15:00	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 15:00	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 15:00	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 149	07/05/16 15:00	
Tetrachloro-m-xylene	74	15 - 131	07/05/16 15:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 14:58
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-010
Lab Code: R1606601-009

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 15:51	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 15:51	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 15:51	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 15:51	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 15:51	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 15:51	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 15:51	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	81	10 - 149	07/05/16 15:51	
Tetrachloro-m-xylene	84	15 - 131	07/05/16 15:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 15:46
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-011
Lab Code: R1606601-010

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 16:17	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 16:17	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 16:17	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 16:17	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 16:17	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 16:17	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 16:17	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	11	10 - 149	07/05/16 16:17	
Tetrachloro-m-xylene	76	15 - 131	07/05/16 16:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 12:10
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-007
Lab Code: R1606601-011

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 16:43	6/24/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 16:43	6/24/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 16:43	6/24/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 16:43	6/24/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 16:43	6/24/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 16:43	6/24/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 16:43	6/24/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	36	10 - 149	07/05/16 16:43	
Tetrachloro-m-xylene	86	15 - 131	07/05/16 16:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606601
Date Collected: 06/22/16 13:25
Date Received: 06/23/16 14:45

Sample Name: WG-9954-062216-SG-008
Lab Code: R1606601-012

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/05/16 18:26	6/27/16	
Aroclor 1221	1.9 U	1.9	1	07/05/16 18:26	6/27/16	
Aroclor 1232	0.94 U	0.94	1	07/05/16 18:26	6/27/16	
Aroclor 1242	0.94 U	0.94	1	07/05/16 18:26	6/27/16	
Aroclor 1248	0.94 U	0.94	1	07/05/16 18:26	6/27/16	
Aroclor 1254	0.94 U	0.94	1	07/05/16 18:26	6/27/16	
Aroclor 1260	0.94 U	0.94	1	07/05/16 18:26	6/27/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	83	10 - 149	07/05/16 18:26	
Tetrachloro-m-xylene	74	15 - 131	07/05/16 18:26	



July 18, 2016

Service Request No:R1606749

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, NY 14304

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

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory June 27, 2016
For your reference, these analyses have been assigned our service request number **R1606749**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7478. You may also contact me via email at Vanessa.Badman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Vanessa Badman
Customer Service
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

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1606749

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1606749-001	WG-9954-062416-SG-012	6/24/2016	1230
R1606749-002	WG-9954-062416-SG-013	6/24/2016	1255
R1606749-003	WG-9954-062416-SG-014	6/24/2016	1310
R1606749-004	TB-9954-062416-SG	6/24/2016	0000
R1606749-005	WG-9954-062716-SG-015	6/27/2016	1115
R1606749-006	WG-9954-062716-SG-016	6/27/2016	1215
R1606749-007	WG-9954-062716-SG-017	6/27/2016	1305
R1606749-008	WG-9954-062716-SG-019	6/27/2016	1350
R1606749-009	TB-9954-062716-SG	6/27/2016	0000
R1606749-010	WG-9954-062716-SG-020	6/27/2016	1350
R1606749-011	WG-9954-062716-SG-018	6/27/2016	1305
R1606749-012	WG-9954-062816-SG-022	6/28/2016	1040
R1606749-013	WG-9954-062816-SG-023	6/28/2016	1205
R1606749-014	WG-9954-062816-SG-024	6/28/2016	1215
R1606749-015	WG-9954-062816-SG-025	6/28/2016	1335
R1606749-016	WG-9954-062816-SG-026	6/28/2016	1420
R1606749-017	WG-9954-062816-SG-021	6/28/2016	0955
R1606749-018	RB-9954-062816-SG-001	6/28/2016	1510
R1606749-019	TB-9954-062816-SG	6/28/2016	0000

This is a preliminary Tier II report in which your Tier III or Tier IV will soon follow. The report has been reviewed for completeness only. The Case Narrative and Raw Data review will be completed upon the assembling of the final data package and therefore could contain some differences between the preliminary report and final data package. Preliminary Tier II reports containing Metals data could have a slight difference in the final Tier III or Tier IV results due to rounding rules used in the reporting software.

If you have any questions regarding this, please contact your Customer Service Representative.

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered unless otherwise qualified/flagged within the report.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062416-SG-012			Lab ID: R1606749-001			
Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	3.5	J	1.3	10	ug/L	8260C
Bromomethane	6.1		0.29	5.0	ug/L	8260C
Carbon Disulfide	4.5	J	0.22	10	ug/L	8260C
Ethylbenzene	0.28	J	0.20	5.0	ug/L	8260C
alpha-BHC	0.086		0.028	0.047	ug/L	8081B
delta-BHC	0.067		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.083		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062416-SG-013			Lab ID: R1606749-002			
Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	3.6	J	1.3	10	ug/L	8260C
Carbon Disulfide	29		0.22	10	ug/L	8260C
Ethylbenzene	0.37	J	0.20	5.0	ug/L	8260C
Toluene	0.25	J	0.20	5.0	ug/L	8260C
alpha-BHC	0.20		0.028	0.047	ug/L	8081B
delta-BHC	0.10		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.16		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062416-SG-014			Lab ID: R1606749-003			
Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	1.8	J	1.3	10	ug/L	8260C
Carbon Disulfide	8.3	J	0.22	10	ug/L	8260C
Toluene	0.29	J	0.20	5.0	ug/L	8260C
alpha-BHC	0.10		0.028	0.047	ug/L	8081B
delta-BHC	0.074		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.10		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062716-SG-015			Lab ID: R1606749-005			
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	0.94	J	0.22	10	ug/L	8260C
CLIENT ID: WG-9954-062716-SG-017			Lab ID: R1606749-007			
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloromethane	0.34	J	0.21	5.0	ug/L	8260C
CLIENT ID: WG-9954-062716-SG-019			Lab ID: R1606749-008			
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloromethane	0.24	J	0.21	5.0	ug/L	8260C
CLIENT ID: WG-9954-062816-SG-022			Lab ID: R1606749-012			
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	2.6	J	0.22	10	ug/L	8260C
alpha-BHC	0.065		0.028	0.047	ug/L	8081B
delta-BHC	0.62		0.048	0.048	ug/L	8081B

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062816-SG-022		Lab ID: R1606749-012				
Analyte	Results	Flag	MDL	PQL	Units	Method
gamma-BHC (Lindane)	0.13		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062816-SG-023		Lab ID: R1606749-013				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	5.9	J	0.22	10	ug/L	8260C
alpha-BHC	0.056		0.028	0.047	ug/L	8081B
delta-BHC	0.17		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.084		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062816-SG-024		Lab ID: R1606749-014				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	2.0	J	0.22	10	ug/L	8260C
alpha-BHC	0.062		0.028	0.047	ug/L	8081B
delta-BHC	0.14		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.13		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062816-SG-025		Lab ID: R1606749-015				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.6	J	0.22	10	ug/L	8260C
alpha-BHC	0.24		0.028	0.047	ug/L	8081B
delta-BHC	0.12		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.25		0.025	0.047	ug/L	8081B
CLIENT ID: WG-9954-062816-SG-026		Lab ID: R1606749-016				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.4	J	0.22	10	ug/L	8260C
delta-BHC	0.095		0.048	0.048	ug/L	8081B
CLIENT ID: WG-9954-062816-SG-021		Lab ID: R1606749-017				
Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	1.6	J	0.22	10	ug/L	8260C
alpha-BHC	0.12		0.028	0.047	ug/L	8081B
delta-BHC	0.17		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.20		0.025	0.047	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 Services Inc. (Formerly Conestoga-Rovers & Associates, Inc.)
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request:R1606749

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1606749-001	WG-9954-062416-SG-012	6/24/2016	1230
R1606749-002	WG-9954-062416-SG-013	6/24/2016	1255
R1606749-003	WG-9954-062416-SG-014	6/24/2016	1310
R1606749-004	TB-9954-062416-SG	6/24/2016	0000
R1606749-005	WG-9954-062716-SG-015	6/27/2016	1115
R1606749-006	WG-9954-062716-SG-016	6/27/2016	1215
R1606749-007	WG-9954-062716-SG-017	6/27/2016	1305
R1606749-008	WG-9954-062716-SG-019	6/27/2016	1350
R1606749-009	TB-9954-062716-SG	6/27/2016	0000
R1606749-010	WG-9954-062716-SG-020	6/27/2016	1350
R1606749-011	WG-9954-062716-SG-018	6/27/2016	1305
R1606749-012	WG-9954-062816-SG-022	6/28/2016	1040
R1606749-013	WG-9954-062816-SG-023	6/28/2016	1205
R1606749-014	WG-9954-062816-SG-024	6/28/2016	1215
R1606749-015	WG-9954-062816-SG-025	6/28/2016	1335
R1606749-016	WG-9954-062816-SG-026	6/28/2016	1420
R1606749-017	WG-9954-062816-SG-021	6/28/2016	0955
R1606749-018	RB-9954-062816-SG-001	6/28/2016	1510
R1606749-019	TB-9954-062816-SG	6/28/2016	0000

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain of Custody is a critical component of the analytical process and must be maintained accurately.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL
Email: sscrocchi@croworld.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14323	
Laboratory Contact: VANESSA BADMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-03-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name: S. GARDNER	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	EXTRA(None)	PestPCBs(None)	SVOC(none)	VOA(HCI)	Sample Condition		Remarks
									Temp in C		
									Received on ice	Y/N	
									Sealed Cooler	Y/N	
									Samples Intact	Y/N	
WG-9954-062416-SG-012		WG	06/24/2016	12:30	1	1	1	2			
WG-9954-062416-SG-013		WG	06/24/2016	12:55	1	1	1	3			
WG-9954-062416-SG-014		WG	06/24/2016	13:10	1	1	1	3			
TB-9954-062416-SG		WG Q	06/24/2016	00:00	-	-	-	3			
Total Bottles					3	3	3	12	Grand Total:21		

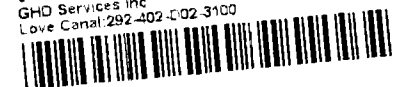
Sample Condition

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

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Lab Courier	1	<i>[Signature]</i>	06/27/16	10:30			
AIRBILL#							

R1606749

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





Cooler Receipt and Preservation Check Form

R1606749
GHD Services Inc.
Love Canal 292-402-D02-3100

5



Project/Client _____ Folder Number _____

Cooler received on 6/27/16 by: AW

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: <u>Wet Ice</u> 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?	<u>ALSTROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set ☒ NA

8. Temperature Readings Date: 6/27/16 Time: 1:33i ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.2</u>							
Correction Factor (°C)	<u>-0.3</u>							
Corrected Temp (°C)	<u>4.9</u>							
Within 0-6°C?	☒ Y ☐ N	☐ 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	☐ Y ☐ N

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

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

All samples held in storage location:	<u>R-002</u>	by	<u>AW</u>	on	<u>6/27/16</u>	at	<u>1:33i</u>
5035 samples placed in storage location:		by		on		at	

PC Secondary Review: _____

Cooler Breakdown: Date: 6/27/16 Time: 1:50i by: AW

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

Explain any discrepencies.

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes=All samples OK No=Samples were preserved at The lab as listed
≥12	NaOH									
≤2	HNO ₃									
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).						PM OK to Adjust: _____
	Na ₂ S ₂ O ₃	-	-			**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet				
	ZnAcetate	-	-							
	HCl	**	**	4114070	4/17					

Bottle lot numbers: 042516 1345, Client covered
Other Comments: _____

PC Secondary Review: _____

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

CHAIN-OF-CUSTODY/Analytical Request Document

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

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623	
Laboratory Contact: VANESSA BADMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-04-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name: S GARDNER, D TYRAN	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment				Matrix Code	Date Collected	Time Collected	EXTRA(None)	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks
WG-9954-062716-SG-015	WG	06/27/2016	11:15	1	1	1	3					11/2/10 6/23/10
WG-9954-062716-SG-016	WG	06/27/2016	12:15	1	1	1	3					
WG-9954-062716-SG-017	WG	06/27/2016	13:05	1	1	1	3					
WG-9954-062716-SG-019	WG	06/27/2016	13:50	1	1	1	3					
TB-9954-062716-SG	WG Q	06/27/2016	00:00	-	-	-	3					
WG-9954-062716-SG-020	WG	06/27/2016	13:50	1	1	1	3					
WG-9954-062716-SG-018	WG	06/27/2016	13:05	1	1	1	3					
Total Bottles								6	6	6	21	Grand Total:39

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Lab Courier	2	<i>Susan Scrocchi</i>	6/27/16	1600	<i>Secret Service</i>	6/28/16	1100
AIRBILL#:		<i>Secret Service</i>	6/28/16	1410	<i>ALS</i>	6/28/16	1410

R1606749

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



5



Cooler Receipt and Preservation Check Form

R1606749

5

GHD Services Inc.
Love Canal: 292-402-D02-3100



Project/Client GHD Folder Number _____

Cooler received on 6/28/16 by: SW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 6/28/16 Time: 1414 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.3</u>	<u>5.6</u>						
Correction Factor (°C)	<u>26.6</u>	<u>-0.1</u>						
Corrected Temp (°C)	<u>2.3</u>	<u>4.4</u>						
Within 0-6°C?	☒ N	☒ 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	Y N

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

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

All samples held in storage location: Room by SW on 6/28/16 at 1414
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: _____

Cooler Breakdown: Date: 6/28/16 Time: 1535 by: SW

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?
- Did all bottle labels and tags agree with custody papers?
- Were correct containers used for the tests indicated?
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated

YES YES YES NO NO NO

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**	<u>4115002</u>	<u>5/7</u>				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust:

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042516-1647, client correct
Other Comments:

Rec'd QC volume for location SG-015 not on CAC and CAC is incorrect w/ # of bottles

PC Secondary Review: _____

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606749

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001
Sample Matrix: Water

Date Collected: 06/24/16
Date Received: 06/27/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002
Sample Matrix: Water

Date Collected: 06/24/16
Date Received: 06/27/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003
Sample Matrix: Water

Date Collected: 06/24/16
Date Received: 06/27/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606749

Sample Name: TB-9954-062416-SG
Lab Code: R1606749-004
Sample Matrix: Water

Date Collected: 06/24/16
Date Received: 06/27/16

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY
DMURPHY

Analyzed By
AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY
DMURPHY

Analyzed By
AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method
8081B
8082A

Extracted/Digested By
DMURPHY
DMURPHY

Analyzed By
AMOSSES
MPEDRO

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Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606749

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method

8260C
8270D

Extracted/Digested By

DMURPHY

Analyzed By

FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY
DMURPHY

Analyzed By

AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: TB-9954-062716-SG
Lab Code: R1606749-009
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method

8260C

Extracted/Digested By

Analyzed By

FNAEGLER

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY
DMURPHY

Analyzed By

AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

ALS Group USA, Corp.
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Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606749

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011
Sample Matrix: Water

Date Collected: 06/27/16
Date Received: 06/27/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

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Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606749

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

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dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606749

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8081B	DMURPHY	AMOSSES
8082A	DMURPHY	MPEDRO
8260C		FNAEGLER
8270D	DMURPHY	JMISIUREWICZ

Sample Name: TB-9954-062816-SG
Lab Code: R1606749-019
Sample Matrix: Water

Date Collected: 06/28/16
Date Received: 06/29/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:30
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 15:27	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 15:27	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 15:27	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 15:27	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 15:27	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 15:27	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 15:27	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 15:27	
2-Hexanone	10 U	10	1.7	1	06/30/16 15:27	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 15:27	
Acetone	3.5 J	10	1.3	1	06/30/16 15:27	
Benzene	5.0 U	5.0	0.20	1	06/30/16 15:27	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 15:27	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 15:27	
Bromomethane	6.1	5.0	0.29	1	06/30/16 15:27	
Carbon Disulfide	4.5 J	10	0.22	1	06/30/16 15:27	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 15:27	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 15:27	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 15:27	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 15:27	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 15:27	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 15:27	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 15:27	
Ethylbenzene	0.28 J	5.0	0.20	1	06/30/16 15:27	
Styrene	5.0 U	5.0	0.20	1	06/30/16 15:27	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 15:27	
Toluene	5.0 U	5.0	0.20	1	06/30/16 15:27	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 15:27	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 15:27	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 15:27	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 15:27	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 15:27	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 15:27	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 15:27	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 15:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/30/16 15:27	
Dibromofluoromethane	105	89 - 119	06/30/16 15:27	
Toluene-d8	103	87 - 121	06/30/16 15:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:30
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	unknown	1.14	8.8	J
	Sulfur dioxide	1.23	380.5	JN
	unknown	1.37	25.9	J
003658-80-8	Trisulfide, dimethyl	11.62	12.0	JN
000624-89-5	Ethane, (methylthio)-	4.48	37.9	JN
000624-92-0	Disulfide, dimethyl	8.25	78.4	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:55
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 15:52	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 15:52	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 15:52	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 15:52	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 15:52	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 15:52	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 15:52	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 15:52	
2-Hexanone	10 U	10	1.7	1	06/30/16 15:52	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 15:52	
Acetone	3.6 J	10	1.3	1	06/30/16 15:52	
Benzene	5.0 U	5.0	0.20	1	06/30/16 15:52	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 15:52	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 15:52	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 15:52	
Carbon Disulfide	29	10	0.22	1	06/30/16 15:52	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 15:52	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 15:52	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 15:52	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 15:52	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 15:52	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 15:52	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 15:52	
Ethylbenzene	0.37 J	5.0	0.20	1	06/30/16 15:52	
Styrene	5.0 U	5.0	0.20	1	06/30/16 15:52	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 15:52	
Toluene	0.25 J	5.0	0.20	1	06/30/16 15:52	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 15:52	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 15:52	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 15:52	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 15:52	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 15:52	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 15:52	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 15:52	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 15:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/30/16 15:52	
Dibromofluoromethane	107	89 - 119	06/30/16 15:52	
Toluene-d8	102	87 - 121	06/30/16 15:52	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:55
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	unknown	1.14	9.8	J
	Sulfur dioxide	1.24	163.7	JN
	unknown	1.37	11.4	J
000074-93-1	Methanethiol	1.56	8.8	JN
	unknown	1.76	7.1	J
003658-80-8	Trisulfide, dimethyl	11.62	19.4	JN
000624-89-5	Ethane, (methylthio)-	4.48	40.2	JN
000624-92-0	Disulfide, dimethyl	8.25	73.3	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 13:10
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 16:16	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 16:16	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 16:16	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 16:16	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 16:16	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 16:16	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 16:16	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 16:16	
2-Hexanone	10 U	10	1.7	1	06/30/16 16:16	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 16:16	
Acetone	1.8 J	10	1.3	1	06/30/16 16:16	
Benzene	5.0 U	5.0	0.20	1	06/30/16 16:16	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 16:16	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 16:16	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 16:16	
Carbon Disulfide	8.3 J	10	0.22	1	06/30/16 16:16	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 16:16	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 16:16	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 16:16	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 16:16	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 16:16	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 16:16	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 16:16	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 16:16	
Styrene	5.0 U	5.0	0.20	1	06/30/16 16:16	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 16:16	
Toluene	0.29 J	5.0	0.20	1	06/30/16 16:16	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 16:16	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 16:16	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 16:16	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 16:16	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 16:16	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 16:16	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 16:16	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 16:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/30/16 16:16	
Dibromofluoromethane	106	89 - 119	06/30/16 16:16	
Toluene-d8	97	87 - 121	06/30/16 16:16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003

Service Request: R1606749
Date Collected: 06/24/16 13:10
Date Received: 06/27/16 13:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	16.6	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 00:00
Date Received: 06/27/16 13:30

Sample Name: TB-9954-062416-SG
Lab Code: R1606749-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 13:50	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 13:50	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 13:50	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 13:50	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 13:50	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 13:50	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 13:50	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 13:50	
2-Hexanone	10 U	10	1.7	1	06/30/16 13:50	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 13:50	
Acetone	10 U	10	1.3	1	06/30/16 13:50	
Benzene	5.0 U	5.0	0.20	1	06/30/16 13:50	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 13:50	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 13:50	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 13:50	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 13:50	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 13:50	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 13:50	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 13:50	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 13:50	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 13:50	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 13:50	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 13:50	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 13:50	
Styrene	5.0 U	5.0	0.20	1	06/30/16 13:50	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 13:50	
Toluene	5.0 U	5.0	0.20	1	06/30/16 13:50	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 13:50	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 13:50	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 13:50	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 13:50	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 13:50	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 13:50	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 13:50	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 13:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/30/16 13:50	
Dibromofluoromethane	105	89 - 119	06/30/16 13:50	
Toluene-d8	100	87 - 121	06/30/16 13:50	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 00:00
Date Received: 06/27/16 13:30

Sample Name: TB-9954-062416-SG
Lab Code: R1606749-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 11:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 16:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 16:40	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 16:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 16:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 16:40	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 16:40	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 16:40	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 16:40	
2-Hexanone	10 U	10	1.7	1	06/30/16 16:40	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 16:40	
Acetone	10 U	10	1.3	1	06/30/16 16:40	
Benzene	5.0 U	5.0	0.20	1	06/30/16 16:40	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 16:40	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 16:40	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 16:40	
Carbon Disulfide	0.94 J	10	0.22	1	06/30/16 16:40	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 16:40	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 16:40	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 16:40	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 16:40	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 16:40	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 16:40	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 16:40	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 16:40	
Styrene	5.0 U	5.0	0.20	1	06/30/16 16:40	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 16:40	
Toluene	5.0 U	5.0	0.20	1	06/30/16 16:40	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 16:40	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 16:40	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 16:40	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 16:40	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 16:40	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 16:40	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 16:40	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 16:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/30/16 16:40	
Dibromofluoromethane	105	89 - 119	06/30/16 16:40	
Toluene-d8	105	87 - 121	06/30/16 16:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 11:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	41.3	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 12:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 17:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 17:04	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 17:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 17:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 17:04	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 17:04	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 17:04	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 17:04	
2-Hexanone	10 U	10	1.7	1	06/30/16 17:04	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 17:04	
Acetone	10 U	10	1.3	1	06/30/16 17:04	
Benzene	5.0 U	5.0	0.20	1	06/30/16 17:04	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 17:04	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 17:04	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 17:04	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 17:04	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 17:04	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 17:04	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 17:04	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 17:04	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 17:04	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 17:04	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 17:04	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 17:04	
Styrene	5.0 U	5.0	0.20	1	06/30/16 17:04	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 17:04	
Toluene	5.0 U	5.0	0.20	1	06/30/16 17:04	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 17:04	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 17:04	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 17:04	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 17:04	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 17:04	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 17:04	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 17:04	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 17:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/30/16 17:04	
Dibromofluoromethane	107	89 - 119	06/30/16 17:04	
Toluene-d8	105	87 - 121	06/30/16 17:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 12:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	21.2	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 17:28	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 17:28	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 17:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 17:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 17:28	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 17:28	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 17:28	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 17:28	
2-Hexanone	10 U	10	1.7	1	06/30/16 17:28	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 17:28	
Acetone	10 U	10	1.3	1	06/30/16 17:28	
Benzene	5.0 U	5.0	0.20	1	06/30/16 17:28	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 17:28	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 17:28	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 17:28	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 17:28	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 17:28	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 17:28	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 17:28	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 17:28	
Chloromethane	0.34 J	5.0	0.21	1	06/30/16 17:28	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 17:28	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 17:28	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 17:28	
Styrene	5.0 U	5.0	0.20	1	06/30/16 17:28	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 17:28	
Toluene	5.0 U	5.0	0.20	1	06/30/16 17:28	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 17:28	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 17:28	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 17:28	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 17:28	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 17:28	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 17:28	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 17:28	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 17:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/30/16 17:28	
Dibromofluoromethane	107	89 - 119	06/30/16 17:28	
Toluene-d8	102	87 - 121	06/30/16 17:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 17:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 17:53	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 17:53	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 17:53	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 17:53	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 17:53	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 17:53	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 17:53	
2-Hexanone	10 U	10	1.7	1	06/30/16 17:53	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 17:53	
Acetone	10 U	10	1.3	1	06/30/16 17:53	
Benzene	5.0 U	5.0	0.20	1	06/30/16 17:53	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 17:53	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 17:53	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 17:53	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 17:53	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 17:53	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 17:53	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 17:53	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 17:53	
Chloromethane	0.24 J	5.0	0.21	1	06/30/16 17:53	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 17:53	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 17:53	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 17:53	
Styrene	5.0 U	5.0	0.20	1	06/30/16 17:53	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 17:53	
Toluene	5.0 U	5.0	0.20	1	06/30/16 17:53	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 17:53	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 17:53	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 17:53	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 17:53	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 17:53	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 17:53	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 17:53	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 17:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	06/30/16 17:53	
Dibromofluoromethane	110	89 - 119	06/30/16 17:53	
Toluene-d8	108	87 - 121	06/30/16 17:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 00:00
Date Received: 06/27/16 14:10

Sample Name: TB-9954-062716-SG
Lab Code: R1606749-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 14:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 14:15	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 14:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 14:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 14:15	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 14:15	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 14:15	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 14:15	
2-Hexanone	10 U	10	1.7	1	06/30/16 14:15	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 14:15	
Acetone	10 U	10	1.3	1	06/30/16 14:15	
Benzene	5.0 U	5.0	0.20	1	06/30/16 14:15	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 14:15	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 14:15	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 14:15	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 14:15	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 14:15	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 14:15	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 14:15	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 14:15	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 14:15	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 14:15	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 14:15	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 14:15	
Styrene	5.0 U	5.0	0.20	1	06/30/16 14:15	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 14:15	
Toluene	5.0 U	5.0	0.20	1	06/30/16 14:15	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 14:15	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 14:15	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 14:15	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 14:15	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 14:15	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 14:15	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 14:15	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 14:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/30/16 14:15	
Dibromofluoromethane	105	89 - 119	06/30/16 14:15	
Toluene-d8	99	87 - 121	06/30/16 14:15	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 00:00
Date Received: 06/27/16 14:10

Sample Name: TB-9954-062716-SG
Lab Code: R1606749-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 18:17	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 18:17	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 18:17	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 18:17	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 18:17	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 18:17	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 18:17	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 18:17	
2-Hexanone	10 U	10	1.7	1	06/30/16 18:17	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 18:17	
Acetone	10 U	10	1.3	1	06/30/16 18:17	
Benzene	5.0 U	5.0	0.20	1	06/30/16 18:17	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 18:17	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 18:17	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 18:17	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 18:17	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 18:17	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 18:17	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 18:17	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 18:17	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 18:17	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 18:17	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 18:17	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 18:17	
Styrene	5.0 U	5.0	0.20	1	06/30/16 18:17	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 18:17	
Toluene	5.0 U	5.0	0.20	1	06/30/16 18:17	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 18:17	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 18:17	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 18:17	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 18:17	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 18:17	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 18:17	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 18:17	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 18:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/30/16 18:17	
Dibromofluoromethane	108	89 - 119	06/30/16 18:17	
Toluene-d8	103	87 - 121	06/30/16 18:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 18:41	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 18:41	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 18:41	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 18:41	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 18:41	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 18:41	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 18:41	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 18:41	
2-Hexanone	10 U	10	1.7	1	06/30/16 18:41	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 18:41	
Acetone	10 U	10	1.3	1	06/30/16 18:41	
Benzene	5.0 U	5.0	0.20	1	06/30/16 18:41	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 18:41	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 18:41	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 18:41	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 18:41	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 18:41	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 18:41	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 18:41	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 18:41	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 18:41	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 18:41	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 18:41	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 18:41	
Styrene	5.0 U	5.0	0.20	1	06/30/16 18:41	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 18:41	
Toluene	5.0 U	5.0	0.20	1	06/30/16 18:41	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 18:41	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 18:41	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 18:41	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 18:41	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 18:41	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 18:41	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 18:41	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 18:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/30/16 18:41	
Dibromofluoromethane	102	89 - 119	06/30/16 18:41	
Toluene-d8	99	87 - 121	06/30/16 18:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 10:40
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 19:06	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 19:06	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 19:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 19:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 19:06	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 19:06	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 19:06	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 19:06	
2-Hexanone	10 U	10	1.7	1	06/30/16 19:06	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 19:06	
Acetone	10 U	10	1.3	1	06/30/16 19:06	
Benzene	5.0 U	5.0	0.20	1	06/30/16 19:06	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 19:06	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 19:06	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 19:06	
Carbon Disulfide	2.6 J	10	0.22	1	06/30/16 19:06	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 19:06	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 19:06	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 19:06	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 19:06	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 19:06	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 19:06	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 19:06	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 19:06	
Styrene	5.0 U	5.0	0.20	1	06/30/16 19:06	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 19:06	
Toluene	5.0 U	5.0	0.20	1	06/30/16 19:06	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 19:06	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 19:06	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 19:06	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 19:06	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 19:06	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 19:06	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 19:06	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 19:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/30/16 19:06	
Dibromofluoromethane	102	89 - 119	06/30/16 19:06	
Toluene-d8	99	87 - 121	06/30/16 19:06	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 10:40
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.27	62.9	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:05
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 19:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 19:30	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 19:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 19:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 19:30	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 19:30	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 19:30	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 19:30	
2-Hexanone	10 U	10	1.7	1	06/30/16 19:30	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 19:30	
Acetone	10 U	10	1.3	1	06/30/16 19:30	
Benzene	5.0 U	5.0	0.20	1	06/30/16 19:30	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 19:30	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 19:30	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 19:30	
Carbon Disulfide	5.9 J	10	0.22	1	06/30/16 19:30	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 19:30	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 19:30	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 19:30	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 19:30	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 19:30	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 19:30	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 19:30	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 19:30	
Styrene	5.0 U	5.0	0.20	1	06/30/16 19:30	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 19:30	
Toluene	5.0 U	5.0	0.20	1	06/30/16 19:30	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 19:30	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 19:30	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 19:30	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 19:30	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 19:30	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 19:30	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 19:30	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 19:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/30/16 19:30	
Dibromofluoromethane	107	89 - 119	06/30/16 19:30	
Toluene-d8	103	87 - 121	06/30/16 19:30	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013

Service Request: R1606749
Date Collected: 06/28/16 12:05
Date Received: 06/29/16 15:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	8.6	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:15
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 19:54	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 19:54	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 19:54	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 19:54	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 19:54	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 19:54	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 19:54	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 19:54	
2-Hexanone	10 U	10	1.7	1	06/30/16 19:54	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 19:54	
Acetone	10 U	10	1.3	1	06/30/16 19:54	
Benzene	5.0 U	5.0	0.20	1	06/30/16 19:54	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 19:54	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 19:54	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 19:54	
Carbon Disulfide	2.0 J	10	0.22	1	06/30/16 19:54	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 19:54	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 19:54	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 19:54	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 19:54	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 19:54	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 19:54	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 19:54	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 19:54	
Styrene	5.0 U	5.0	0.20	1	06/30/16 19:54	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 19:54	
Toluene	5.0 U	5.0	0.20	1	06/30/16 19:54	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 19:54	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 19:54	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 19:54	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 19:54	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 19:54	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 19:54	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 19:54	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 19:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/30/16 19:54	
Dibromofluoromethane	107	89 - 119	06/30/16 19:54	
Toluene-d8	101	87 - 121	06/30/16 19:54	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:15
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.23	9.6	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 13:35
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 20:18	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 20:18	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 20:18	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 20:18	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 20:18	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 20:18	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 20:18	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 20:18	
2-Hexanone	10 U	10	1.7	1	06/30/16 20:18	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 20:18	
Acetone	10 U	10	1.3	1	06/30/16 20:18	
Benzene	5.0 U	5.0	0.20	1	06/30/16 20:18	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 20:18	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 20:18	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 20:18	
Carbon Disulfide	1.6 J	10	0.22	1	06/30/16 20:18	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 20:18	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 20:18	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 20:18	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 20:18	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 20:18	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 20:18	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 20:18	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 20:18	
Styrene	5.0 U	5.0	0.20	1	06/30/16 20:18	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 20:18	
Toluene	5.0 U	5.0	0.20	1	06/30/16 20:18	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 20:18	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 20:18	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 20:18	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 20:18	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 20:18	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 20:18	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 20:18	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 20:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/30/16 20:18	
Dibromofluoromethane	108	89 - 119	06/30/16 20:18	
Toluene-d8	104	87 - 121	06/30/16 20:18	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015

Service Request: R1606749
Date Collected: 06/28/16 13:35
Date Received: 06/29/16 15:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	21.0	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 14:20
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 20:43	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 20:43	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 20:43	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 20:43	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 20:43	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 20:43	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 20:43	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 20:43	
2-Hexanone	10 U	10	1.7	1	06/30/16 20:43	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 20:43	
Acetone	10 U	10	1.3	1	06/30/16 20:43	
Benzene	5.0 U	5.0	0.20	1	06/30/16 20:43	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 20:43	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 20:43	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 20:43	
Carbon Disulfide	1.4 J	10	0.22	1	06/30/16 20:43	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 20:43	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 20:43	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 20:43	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 20:43	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 20:43	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 20:43	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 20:43	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 20:43	
Styrene	5.0 U	5.0	0.20	1	06/30/16 20:43	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 20:43	
Toluene	5.0 U	5.0	0.20	1	06/30/16 20:43	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 20:43	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 20:43	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 20:43	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 20:43	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 20:43	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 20:43	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 20:43	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 20:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/30/16 20:43	
Dibromofluoromethane	109	89 - 119	06/30/16 20:43	
Toluene-d8	104	87 - 121	06/30/16 20:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 14:20
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	46.8	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 09:55
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 21:07	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 21:07	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 21:07	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 21:07	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 21:07	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 21:07	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 21:07	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 21:07	
2-Hexanone	10 U	10	1.7	1	06/30/16 21:07	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 21:07	
Acetone	10 U	10	1.3	1	06/30/16 21:07	
Benzene	5.0 U	5.0	0.20	1	06/30/16 21:07	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 21:07	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 21:07	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 21:07	
Carbon Disulfide	1.6 J	10	0.22	1	06/30/16 21:07	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 21:07	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 21:07	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 21:07	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 21:07	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 21:07	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 21:07	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 21:07	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 21:07	
Styrene	5.0 U	5.0	0.20	1	06/30/16 21:07	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 21:07	
Toluene	5.0 U	5.0	0.20	1	06/30/16 21:07	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 21:07	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 21:07	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 21:07	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 21:07	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 21:07	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 21:07	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 21:07	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 21:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/30/16 21:07	
Dibromofluoromethane	106	89 - 119	06/30/16 21:07	
Toluene-d8	101	87 - 121	06/30/16 21:07	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 09:55
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	18.2	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 15:10
Date Received: 06/29/16 15:20

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 14:39	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 14:39	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 14:39	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 14:39	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 14:39	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 14:39	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 14:39	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 14:39	
2-Hexanone	10 U	10	1.7	1	06/30/16 14:39	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 14:39	
Acetone	10 U	10	1.3	1	06/30/16 14:39	
Benzene	5.0 U	5.0	0.20	1	06/30/16 14:39	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 14:39	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 14:39	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 14:39	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 14:39	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 14:39	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 14:39	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 14:39	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 14:39	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 14:39	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 14:39	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 14:39	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 14:39	
Styrene	5.0 U	5.0	0.20	1	06/30/16 14:39	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 14:39	
Toluene	5.0 U	5.0	0.20	1	06/30/16 14:39	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 14:39	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 14:39	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 14:39	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 14:39	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 14:39	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 14:39	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 14:39	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 14:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	06/30/16 14:39	
Dibromofluoromethane	107	89 - 119	06/30/16 14:39	
Toluene-d8	104	87 - 121	06/30/16 14:39	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 15:10
Date Received: 06/29/16 15:20

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 00:00
Date Received: 06/29/16 15:20

Sample Name: TB-9954-062816-SG
Lab Code: R1606749-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	06/30/16 15:03	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	06/30/16 15:03	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	06/30/16 15:03	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	06/30/16 15:03	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	06/30/16 15:03	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	06/30/16 15:03	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	06/30/16 15:03	
2-Butanone (MEK)	10 U	10	0.81	1	06/30/16 15:03	
2-Hexanone	10 U	10	1.7	1	06/30/16 15:03	
4-Methyl-2-pentanone	10 U	10	0.67	1	06/30/16 15:03	
Acetone	10 U	10	1.3	1	06/30/16 15:03	
Benzene	5.0 U	5.0	0.20	1	06/30/16 15:03	
Bromodichloromethane	5.0 U	5.0	0.32	1	06/30/16 15:03	
Bromoform	5.0 U	5.0	0.42	1	06/30/16 15:03	
Bromomethane	5.0 U	5.0	0.29	1	06/30/16 15:03	
Carbon Disulfide	10 U	10	0.22	1	06/30/16 15:03	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	06/30/16 15:03	
Chlorobenzene	5.0 U	5.0	0.29	1	06/30/16 15:03	
Chloroethane	5.0 U	5.0	0.24	1	06/30/16 15:03	
Chloroform	5.0 U	5.0	0.25	1	06/30/16 15:03	
Chloromethane	5.0 U	5.0	0.21	1	06/30/16 15:03	
Dibromochloromethane	5.0 U	5.0	0.31	1	06/30/16 15:03	
Dichloromethane	5.0 U	5.0	0.60	1	06/30/16 15:03	
Ethylbenzene	5.0 U	5.0	0.20	1	06/30/16 15:03	
Styrene	5.0 U	5.0	0.20	1	06/30/16 15:03	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	06/30/16 15:03	
Toluene	5.0 U	5.0	0.20	1	06/30/16 15:03	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	06/30/16 15:03	
Vinyl Acetate	10 U	10	1.1	1	06/30/16 15:03	
Vinyl Chloride	5.0 U	5.0	0.32	1	06/30/16 15:03	
Xylenes, Total	5.0 U	5.0	0.53	1	06/30/16 15:03	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	06/30/16 15:03	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	06/30/16 15:03	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	06/30/16 15:03	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	06/30/16 15:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	06/30/16 15:03	
Dibromofluoromethane	105	89 - 119	06/30/16 15:03	
Toluene-d8	103	87 - 121	06/30/16 15:03	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 00:00
Date Received: 06/29/16 15:20

Sample Name: TB-9954-062816-SG
Lab Code: R1606749-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:30
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 23:00	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 23:00	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 23:00	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 23:00	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 23:00	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 23:00	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 23:00	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/05/16 23:00	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 23:00	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 23:00	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 23:00	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/05/16 23:00	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 23:00	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 23:00	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 23:00	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 23:00	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 23:00	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/05/16 23:00	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/05/16 23:00	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/05/16 23:00	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 23:00	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 23:00	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 23:00	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 23:00	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 23:00	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:30
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 23:00	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 23:00	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 23:00	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 23:00	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 23:00	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 23:00	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 23:00	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 23:00	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/05/16 23:00	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	35 - 141	07/05/16 23:00	
2-Fluorobiphenyl	57	31 - 118	07/05/16 23:00	
2-Fluorophenol	35	10 - 105	07/05/16 23:00	
Nitrobenzene-d5	53	31 - 110	07/05/16 23:00	
Phenol-d6	30	10 - 107	07/05/16 23:00	
p-Terphenyl-d14	60	30 - 133	07/05/16 23:00	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.23	11	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	42	JN
000624-92-0	Disulfide, dimethyl	2.83	53	JN
	unknown	6.20	15	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:55
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 23:28	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 23:28	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 23:28	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 23:28	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 23:28	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 23:28	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 23:28	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/05/16 23:28	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 23:28	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 23:28	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 23:28	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/05/16 23:28	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 23:28	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 23:28	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 23:28	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 23:28	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 23:28	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/05/16 23:28	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/05/16 23:28	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/05/16 23:28	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 23:28	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 23:28	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 23:28	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 23:28	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 23:28	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:55
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 23:28	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 23:28	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 23:28	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 23:28	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 23:28	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 23:28	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 23:28	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 23:28	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/05/16 23:28	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	88	35 - 141	07/05/16 23:28	
2-Fluorobiphenyl	70	31 - 118	07/05/16 23:28	
2-Fluorophenol	45	10 - 105	07/05/16 23:28	
Nitrobenzene-d5	67	31 - 110	07/05/16 23:28	
Phenol-d6	43	10 - 107	07/05/16 23:28	
p-Terphenyl-d14	84	30 - 133	07/05/16 23:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	7.3	J
000110-82-7	Cyclohexane	2.23	17	JN
	unknown	2.32	59	J
000624-92-0	Disulfide, dimethyl	2.82	40	JN
	unknown	6.21	150	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 13:10
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/05/16 23:55	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/05/16 23:55	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/05/16 23:55	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/05/16 23:55	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/05/16 23:55	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/05/16 23:55	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/05/16 23:55	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/05/16 23:55	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/05/16 23:55	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/05/16 23:55	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/05/16 23:55	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/05/16 23:55	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/05/16 23:55	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/05/16 23:55	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/05/16 23:55	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/05/16 23:55	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/05/16 23:55	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/05/16 23:55	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/05/16 23:55	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/05/16 23:55	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/05/16 23:55	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/05/16 23:55	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/05/16 23:55	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/05/16 23:55	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/05/16 23:55	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 13:10
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/05/16 23:55	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/05/16 23:55	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/05/16 23:55	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/05/16 23:55	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/05/16 23:55	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/05/16 23:55	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/05/16 23:55	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/05/16 23:55	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/05/16 23:55	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	35 - 141	07/05/16 23:55	
2-Fluorobiphenyl	66	31 - 118	07/05/16 23:55	
2-Fluorophenol	31	10 - 105	07/05/16 23:55	
Nitrobenzene-d5	59	31 - 110	07/05/16 23:55	
Phenol-d6	23	10 - 107	07/05/16 23:55	
p-Terphenyl-d14	77	30 - 133	07/05/16 23:55	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.23	18	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	50	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.50	9.7	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 11:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 00:22	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 00:22	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 00:22	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 00:22	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 00:22	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 00:22	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 00:22	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 00:22	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 00:22	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 00:22	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 00:22	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 00:22	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 00:22	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 00:22	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 00:22	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 00:22	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 00:22	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 00:22	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 00:22	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 00:22	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 00:22	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 00:22	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 00:22	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 00:22	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 00:22	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 11:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 00:22	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 00:22	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 00:22	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 00:22	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 00:22	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 00:22	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 00:22	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 00:22	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 00:22	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	07/06/16 00:22	
2-Fluorobiphenyl	75	31 - 118	07/06/16 00:22	
2-Fluorophenol	35	10 - 105	07/06/16 00:22	
Nitrobenzene-d5	69	31 - 110	07/06/16 00:22	
Phenol-d6	26	10 - 107	07/06/16 00:22	
p-Terphenyl-d14	77	30 - 133	07/06/16 00:22	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	6.1	J
000110-82-7	Cyclohexane	2.23	18	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	58	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 12:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 01:45	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 01:45	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 01:45	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 01:45	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 01:45	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 01:45	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 01:45	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 01:45	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 01:45	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 01:45	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 01:45	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 01:45	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 01:45	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 01:45	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 01:45	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 01:45	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 01:45	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 01:45	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 01:45	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 01:45	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 01:45	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 01:45	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 01:45	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 01:45	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 01:45	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 12:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 01:45	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 01:45	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 01:45	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 01:45	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 01:45	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 01:45	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 01:45	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 01:45	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 01:45	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	07/06/16 01:45	
2-Fluorobiphenyl	74	31 - 118	07/06/16 01:45	
2-Fluorophenol	37	10 - 105	07/06/16 01:45	
Nitrobenzene-d5	69	31 - 110	07/06/16 01:45	
Phenol-d6	28	10 - 107	07/06/16 01:45	
p-Terphenyl-d14	83	30 - 133	07/06/16 01:45	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.83	5.2	J
000110-82-7	Cyclohexane	2.23	18	JN
	unknown	2.32	56	J

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 18:55	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 18:55	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 18:55	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 18:55	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 18:55	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 18:55	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 18:55	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 18:55	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 18:55	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 18:55	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 18:55	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 18:55	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 18:55	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 18:55	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 18:55	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 18:55	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 18:55	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 18:55	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 18:55	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 18:55	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 18:55	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 18:55	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 18:55	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 18:55	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 18:55	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 18:55	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 18:55	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 18:55	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 18:55	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 18:55	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 18:55	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 18:55	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 18:55	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 18:55	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	98	35 - 141	07/06/16 18:55	
2-Fluorobiphenyl	78	31 - 118	07/06/16 18:55	
2-Fluorophenol	36	10 - 105	07/06/16 18:55	
Nitrobenzene-d5	68	31 - 110	07/06/16 18:55	
Phenol-d6	26	10 - 107	07/06/16 18:55	
p-Terphenyl-d14	91	30 - 133	07/06/16 18:55	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	8.3	J
000110-82-7	Cyclohexane	2.23	19	JN
	unknown	2.32	58	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 19:23	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 19:23	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 19:23	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 19:23	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 19:23	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 19:23	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 19:23	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 19:23	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 19:23	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 19:23	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 19:23	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 19:23	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 19:23	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 19:23	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 19:23	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 19:23	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 19:23	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 19:23	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 19:23	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 19:23	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 19:23	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 19:23	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 19:23	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 19:23	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 19:23	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 19:23	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 19:23	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 19:23	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 19:23	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 19:23	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 19:23	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 19:23	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 19:23	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 19:23	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	96	35 - 141	07/06/16 19:23	
2-Fluorobiphenyl	81	31 - 118	07/06/16 19:23	
2-Fluorophenol	42	10 - 105	07/06/16 19:23	
Nitrobenzene-d5	72	31 - 110	07/06/16 19:23	
Phenol-d6	33	10 - 107	07/06/16 19:23	
p-Terphenyl-d14	81	30 - 133	07/06/16 19:23	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	7.8	J
000110-82-7	Cyclohexane	2.23	23	JN
	unknown	2.32	76	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 19:50	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 19:50	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 19:50	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 19:50	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 19:50	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 19:50	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 19:50	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 19:50	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 19:50	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 19:50	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 19:50	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 19:50	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 19:50	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 19:50	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 19:50	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 19:50	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 19:50	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 19:50	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 19:50	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 19:50	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 19:50	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 19:50	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 19:50	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 19:50	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 19:50	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 19:50	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 19:50	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 19:50	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 19:50	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 19:50	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 19:50	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 19:50	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 19:50	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 19:50	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	07/06/16 19:50	
2-Fluorobiphenyl	79	31 - 118	07/06/16 19:50	
2-Fluorophenol	38	10 - 105	07/06/16 19:50	
Nitrobenzene-d5	72	31 - 110	07/06/16 19:50	
Phenol-d6	28	10 - 107	07/06/16 19:50	
p-Terphenyl-d14	81	30 - 133	07/06/16 19:50	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	7.9	J
000110-82-7	Cyclohexane	2.23	18	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	62	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 20:18	6/29/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 20:18	6/29/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 20:18	6/29/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 20:18	6/29/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 20:18	6/29/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 20:18	6/29/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 20:18	6/29/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 20:18	6/29/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 20:18	6/29/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 20:18	6/29/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 20:18	6/29/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 20:18	6/29/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 20:18	6/29/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 20:18	6/29/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 20:18	6/29/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 20:18	6/29/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 20:18	6/29/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 20:18	6/29/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 20:18	6/29/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 20:18	6/29/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 20:18	6/29/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 20:18	6/29/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 20:18	6/29/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 20:18	6/29/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 20:18	6/29/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 20:18	6/29/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 20:18	6/29/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 20:18	6/29/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 20:18	6/29/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 20:18	6/29/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 20:18	6/29/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 20:18	6/29/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 20:18	6/29/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 20:18	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	94	35 - 141	07/06/16 20:18	
2-Fluorobiphenyl	79	31 - 118	07/06/16 20:18	
2-Fluorophenol	38	10 - 105	07/06/16 20:18	
Nitrobenzene-d5	70	31 - 110	07/06/16 20:18	
Phenol-d6	27	10 - 107	07/06/16 20:18	
p-Terphenyl-d14	78	30 - 133	07/06/16 20:18	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	5.9	J
	unknown	17.95	20	J
000110-82-7	Cyclohexane	2.23	21	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	66	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 10:40
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 20:45	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 20:45	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 20:45	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 20:45	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 20:45	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 20:45	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 20:45	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 20:45	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 20:45	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 20:45	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 20:45	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 20:45	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 20:45	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 20:45	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 20:45	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 20:45	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 20:45	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 20:45	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 20:45	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 20:45	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 20:45	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 20:45	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 20:45	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 20:45	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 20:45	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 10:40
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 20:45	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 20:45	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 20:45	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 20:45	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 20:45	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 20:45	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 20:45	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 20:45	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 20:45	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	35 - 141	07/06/16 20:45	
2-Fluorobiphenyl	66	31 - 118	07/06/16 20:45	
2-Fluorophenol	32	10 - 105	07/06/16 20:45	
Nitrobenzene-d5	57	31 - 110	07/06/16 20:45	
Phenol-d6	23	10 - 107	07/06/16 20:45	
p-Terphenyl-d14	72	30 - 133	07/06/16 20:45	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	1.82	55	JN
000110-82-7	Cyclohexane	2.23	15	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	50	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.50	16	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:05
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 21:13	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 21:13	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 21:13	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 21:13	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 21:13	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 21:13	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 21:13	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 21:13	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 21:13	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 21:13	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 21:13	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 21:13	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 21:13	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 21:13	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 21:13	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 21:13	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 21:13	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 21:13	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 21:13	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 21:13	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 21:13	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 21:13	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 21:13	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 21:13	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 21:13	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:05
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 21:13	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 21:13	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 21:13	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 21:13	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 21:13	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 21:13	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 21:13	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 21:13	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 21:13	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	65	35 - 141	07/06/16 21:13	
2-Fluorobiphenyl	64	31 - 118	07/06/16 21:13	
2-Fluorophenol	33	10 - 105	07/06/16 21:13	
Nitrobenzene-d5	58	31 - 110	07/06/16 21:13	
Phenol-d6	24	10 - 107	07/06/16 21:13	
p-Terphenyl-d14	75	30 - 133	07/06/16 21:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	1.82	43	JN
000110-82-7	Cyclohexane	2.23	17	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.31	53	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.50	18	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:15
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 21:41	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 21:41	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 21:41	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 21:41	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 21:41	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 21:41	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 21:41	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 21:41	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 21:41	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 21:41	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 21:41	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 21:41	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 21:41	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 21:41	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 21:41	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 21:41	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 21:41	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 21:41	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 21:41	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 21:41	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 21:41	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 21:41	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 21:41	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 21:41	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 21:41	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:15
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 21:41	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 21:41	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 21:41	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 21:41	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 21:41	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 21:41	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 21:41	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 21:41	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 21:41	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	77	35 - 141	07/06/16 21:41	
2-Fluorobiphenyl	72	31 - 118	07/06/16 21:41	
2-Fluorophenol	38	10 - 105	07/06/16 21:41	
Nitrobenzene-d5	67	31 - 110	07/06/16 21:41	
Phenol-d6	27	10 - 107	07/06/16 21:41	
p-Terphenyl-d14	79	30 - 133	07/06/16 21:41	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	1.82	37	JN
000110-82-7	Cyclohexane	2.23	21	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	60	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.50	11	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 13:35
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 22:08	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 22:08	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 22:08	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 22:08	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 22:08	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 22:08	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 22:08	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 22:08	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 22:08	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 22:08	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 22:08	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 22:08	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 22:08	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 22:08	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 22:08	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 22:08	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 22:08	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 22:08	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 22:08	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 22:08	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 22:08	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 22:08	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 22:08	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 22:08	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 22:08	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 13:35
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 22:08	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 22:08	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 22:08	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 22:08	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 22:08	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 22:08	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 22:08	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 22:08	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 22:08	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	70	35 - 141	07/06/16 22:08	
2-Fluorobiphenyl	69	31 - 118	07/06/16 22:08	
2-Fluorophenol	36	10 - 105	07/06/16 22:08	
Nitrobenzene-d5	65	31 - 110	07/06/16 22:08	
Phenol-d6	28	10 - 107	07/06/16 22:08	
p-Terphenyl-d14	81	30 - 133	07/06/16 22:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	1.82	32	JN
000110-82-7	Cyclohexane	2.23	19	JN
	unknown	2.32	56	J
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.50	18	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 14:20
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 22:36	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 22:36	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 22:36	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 22:36	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 22:36	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 22:36	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 22:36	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 22:36	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 22:36	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 22:36	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 22:36	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 22:36	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 22:36	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 22:36	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 22:36	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 22:36	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 22:36	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 22:36	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 22:36	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 22:36	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 22:36	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 22:36	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 22:36	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 22:36	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 22:36	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 14:20
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 22:36	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 22:36	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 22:36	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 22:36	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 22:36	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 22:36	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 22:36	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 22:36	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 22:36	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	35 - 141	07/06/16 22:36	
2-Fluorobiphenyl	74	31 - 118	07/06/16 22:36	
2-Fluorophenol	38	10 - 105	07/06/16 22:36	
Nitrobenzene-d5	69	31 - 110	07/06/16 22:36	
Phenol-d6	29	10 - 107	07/06/16 22:36	
p-Terphenyl-d14	83	30 - 133	07/06/16 22:36	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	30	J
000110-82-7	Cyclohexane	2.23	20	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	60	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 09:55
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 23:03	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 23:03	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 23:03	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 23:03	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 23:03	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 23:03	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 23:03	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 23:03	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 23:03	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 23:03	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 23:03	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 23:03	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 23:03	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 23:03	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 23:03	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 23:03	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 23:03	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 23:03	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 23:03	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 23:03	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 23:03	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 23:03	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 23:03	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 23:03	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 23:03	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 09:55
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 23:03	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 23:03	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 23:03	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 23:03	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 23:03	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 23:03	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 23:03	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 23:03	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 23:03	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	07/06/16 23:03	
2-Fluorobiphenyl	76	31 - 118	07/06/16 23:03	
2-Fluorophenol	38	10 - 105	07/06/16 23:03	
Nitrobenzene-d5	67	31 - 110	07/06/16 23:03	
Phenol-d6	30	10 - 107	07/06/16 23:03	
p-Terphenyl-d14	88	30 - 133	07/06/16 23:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	1.82	31	JN
000110-82-7	Cyclohexane	2.23	19	JN
	unknown	2.32	61	J
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.50	8.5	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 15:10
Date Received: 06/29/16 15:20

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 23:30	6/30/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 23:30	6/30/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 23:30	6/30/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 23:30	6/30/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 23:30	6/30/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 23:30	6/30/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 23:30	6/30/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 23:30	6/30/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 23:30	6/30/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 23:30	6/30/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 23:30	6/30/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 23:30	6/30/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 23:30	6/30/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 23:30	6/30/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 23:30	6/30/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 23:30	6/30/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 23:30	6/30/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 23:30	6/30/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 23:30	6/30/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 23:30	6/30/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 23:30	6/30/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 23:30	6/30/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 23:30	6/30/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 23:30	6/30/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 23:30	6/30/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 15:10
Date Received: 06/29/16 15:20

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 23:30	6/30/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 23:30	6/30/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 23:30	6/30/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 23:30	6/30/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 23:30	6/30/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 23:30	6/30/16	
N-Nitrosodiethylamine	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 23:30	6/30/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 23:30	6/30/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 23:30	6/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	35 - 141	07/06/16 23:30	
2-Fluorobiphenyl	73	31 - 118	07/06/16 23:30	
2-Fluorophenol	38	10 - 105	07/06/16 23:30	
Nitrobenzene-d5	71	31 - 110	07/06/16 23:30	
Phenol-d6	27	10 - 107	07/06/16 23:30	
p-Terphenyl-d14	90	30 - 133	07/06/16 23:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.82	41	J
000110-82-7	Cyclohexane	2.24	23	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	63	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:30
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 11:14	6/29/16	
alpha-BHC	0.086	0.047	1	07/14/16 11:14	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 11:14	6/29/16	
delta-BHC	0.067	0.048	1	07/14/16 11:14	6/29/16	
gamma-BHC (Lindane)	0.083	0.047	1	07/14/16 11:14	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 11:14	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	14	10 - 164	07/14/16 11:14	
Tetrachloro-m-xylene	131	10 - 147	07/14/16 11:14	

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dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:55
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 11:44	6/29/16	
alpha-BHC	0.20	0.047	1	07/14/16 11:44	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 11:44	6/29/16	
delta-BHC	0.10	0.048	1	07/14/16 11:44	6/29/16	
gamma-BHC (Lindane)	0.16	0.047	1	07/14/16 11:44	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 11:44	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 164	07/14/16 11:44	
Tetrachloro-m-xylene	132	10 - 147	07/14/16 11:44	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 13:10
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 12:13	6/29/16	
alpha-BHC	0.10	0.047	1	07/14/16 12:13	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 12:13	6/29/16	
delta-BHC	0.074	0.048	1	07/14/16 12:13	6/29/16	
gamma-BHC (Lindane)	0.10	0.047	1	07/14/16 12:13	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 12:13	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	151	10 - 164	07/14/16 12:13	
Tetrachloro-m-xylene	141	10 - 147	07/14/16 12:13	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 11:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 12:43	6/29/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
delta-BHC	0.048 U	0.048	1	07/14/16 12:43	6/29/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 12:43	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 12:43	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 164	07/14/16 12:43	
Tetrachloro-m-xylene	62	10 - 147	07/14/16 12:43	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 12:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 15:13	6/29/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
delta-BHC	0.048 U	0.048	1	07/14/16 15:13	6/29/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 15:13	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 15:13	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	39	10 - 164	07/14/16 15:13	
Tetrachloro-m-xylene	136	10 - 147	07/14/16 15:13	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 15:42	6/29/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
delta-BHC	0.048 U	0.048	1	07/14/16 15:42	6/29/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 15:42	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 15:42	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	40	10 - 164	07/14/16 15:42	
Tetrachloro-m-xylene	63	10 - 147	07/14/16 15:42	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 16:12	6/29/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
delta-BHC	0.048 U	0.048	1	07/14/16 16:12	6/29/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 16:12	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 16:12	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	10 - 164	07/14/16 16:12	
Tetrachloro-m-xylene	69	10 - 147	07/14/16 16:12	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 16:42	6/29/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
delta-BHC	0.048 U	0.048	1	07/14/16 16:42	6/29/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 16:42	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 16:42	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	07/14/16 16:42	
Tetrachloro-m-xylene	58	10 - 147	07/14/16 16:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Aldrin	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Dieldrin	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Endrin	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Heptachlor	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
Toxaphene	0.47 U	0.47	1	07/14/16 17:12	6/29/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
beta-BHC	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
delta-BHC	0.048 U	0.048	1	07/14/16 17:12	6/29/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 17:12	6/29/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 17:12	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	29	10 - 164	07/14/16 17:12	
Tetrachloro-m-xylene	61	10 - 147	07/14/16 17:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 10:40
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 19:11	7/1/16	
alpha-BHC	0.065	0.047	1	07/14/16 19:11	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 19:11	7/1/16	
delta-BHC	0.62	0.048	1	07/14/16 19:11	7/1/16	
gamma-BHC (Lindane)	0.13	0.047	1	07/14/16 19:11	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 19:11	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	71	10 - 164	07/14/16 19:11	
Tetrachloro-m-xylene	69	10 - 147	07/14/16 19:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:05
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 19:41	7/1/16	
alpha-BHC	0.056	0.047	1	07/14/16 19:41	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 19:41	7/1/16	
delta-BHC	0.17	0.048	1	07/14/16 19:41	7/1/16	
gamma-BHC (Lindane)	0.084	0.047	1	07/14/16 19:41	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 19:41	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	71	10 - 164	07/14/16 19:41	
Tetrachloro-m-xylene	55	10 - 147	07/14/16 19:41	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:15
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 20:41	7/1/16	
alpha-BHC	0.062	0.047	1	07/14/16 20:41	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 20:41	7/1/16	
delta-BHC	0.14	0.048	1	07/14/16 20:41	7/1/16	
gamma-BHC (Lindane)	0.13	0.047	1	07/14/16 20:41	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 20:41	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	81	10 - 164	07/14/16 20:41	
Tetrachloro-m-xylene	70	10 - 147	07/14/16 20:41	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 13:35
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 21:11	7/1/16	
alpha-BHC	0.24	0.047	1	07/14/16 21:11	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 21:11	7/1/16	
delta-BHC	0.12	0.048	1	07/14/16 21:11	7/1/16	
gamma-BHC (Lindane)	0.25	0.047	1	07/14/16 21:11	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 21:11	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 164	07/14/16 21:11	
Tetrachloro-m-xylene	77	10 - 147	07/14/16 21:11	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 14:20
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 21:41	7/1/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
delta-BHC	0.095	0.048	1	07/14/16 21:41	7/1/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 21:41	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 21:41	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 164	07/14/16 21:41	
Tetrachloro-m-xylene	62	10 - 147	07/14/16 21:41	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 09:55
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 22:10	7/1/16	
alpha-BHC	0.12	0.047	1	07/14/16 22:10	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 22:10	7/1/16	
delta-BHC	0.17	0.048	1	07/14/16 22:10	7/1/16	
gamma-BHC (Lindane)	0.20	0.047	1	07/14/16 22:10	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 22:10	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	91	10 - 164	07/14/16 22:10	
Tetrachloro-m-xylene	75	10 - 147	07/14/16 22:10	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 15:10
Date Received: 06/29/16 15:20

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
4,4'-DDE	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
4,4'-DDT	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Aldrin	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Dieldrin	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Endosulfan I	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Endosulfan II	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Endrin	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Endrin Ketone	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Heptachlor	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Methoxychlor	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
Toxaphene	0.47 U	0.47	1	07/14/16 22:40	7/1/16	
alpha-BHC	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
alpha-Chlordane	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
beta-BHC	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
delta-BHC	0.048 U	0.048	1	07/14/16 22:40	7/1/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/14/16 22:40	7/1/16	
gamma-Chlordane	0.047 U	0.047	1	07/14/16 22:40	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	39	10 - 164	07/14/16 22:40	
Tetrachloro-m-xylene	73	10 - 147	07/14/16 22:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:30
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-012
Lab Code: R1606749-001

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 11:29	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 11:29	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 11:29	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 11:29	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 11:29	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 11:29	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 11:29	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	14	10 - 149	07/06/16 11:29	
Tetrachloro-m-xylene	134 *	15 - 131	07/06/16 11:29	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 12:55
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-013
Lab Code: R1606749-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/07/16 14:36	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/07/16 14:36	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/07/16 14:36	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/07/16 14:36	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/07/16 14:36	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/07/16 14:36	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/07/16 14:36	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	97	10 - 149	07/07/16 14:36	
Tetrachloro-m-xylene	158 *	15 - 131	07/07/16 14:36	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/24/16 13:10
Date Received: 06/27/16 13:30

Sample Name: WG-9954-062416-SG-014
Lab Code: R1606749-003

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/07/16 15:02	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/07/16 15:02	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/07/16 15:02	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/07/16 15:02	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/07/16 15:02	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/07/16 15:02	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/07/16 15:02	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	164 *	10 - 149	07/07/16 15:02	*
Tetrachloro-m-xylene	172 *	15 - 131	07/07/16 15:02	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 11:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-015
Lab Code: R1606749-005

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 12:46	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 12:46	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 12:46	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 12:46	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 12:46	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 12:46	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 12:46	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 149	07/06/16 12:46	
Tetrachloro-m-xylene	68	15 - 131	07/06/16 12:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 12:15
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-016
Lab Code: R1606749-006

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 14:03	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 14:03	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 14:03	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 14:03	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 14:03	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 14:03	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 14:03	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10 - 149	07/06/16 14:03	
Tetrachloro-m-xylene	151 *	15 - 131	07/06/16 14:03	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-017
Lab Code: R1606749-007

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 14:54	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 14:54	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 14:54	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 14:54	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 14:54	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 14:54	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 14:54	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	40	10 - 149	07/06/16 14:54	
Tetrachloro-m-xylene	67	15 - 131	07/06/16 14:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-019
Lab Code: R1606749-008

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 15:20	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 15:20	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 15:20	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 15:20	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 15:20	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 15:20	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 15:20	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	27	10 - 149	07/06/16 15:20	
Tetrachloro-m-xylene	78	15 - 131	07/06/16 15:20	

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dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:50
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-020
Lab Code: R1606749-010

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 15:46	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 15:46	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 15:46	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 15:46	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 15:46	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 15:46	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 15:46	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	28	10 - 149	07/06/16 15:46	
Tetrachloro-m-xylene	70	15 - 131	07/06/16 15:46	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/27/16 13:05
Date Received: 06/27/16 14:10

Sample Name: WG-9954-062716-SG-018
Lab Code: R1606749-011

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/06/16 16:12	6/29/16	
Aroclor 1221	1.9 U	1.9	1	07/06/16 16:12	6/29/16	
Aroclor 1232	0.94 U	0.94	1	07/06/16 16:12	6/29/16	
Aroclor 1242	0.94 U	0.94	1	07/06/16 16:12	6/29/16	
Aroclor 1248	0.94 U	0.94	1	07/06/16 16:12	6/29/16	
Aroclor 1254	0.94 U	0.94	1	07/06/16 16:12	6/29/16	
Aroclor 1260	0.94 U	0.94	1	07/06/16 16:12	6/29/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	36	10 - 149	07/06/16 16:12	
Tetrachloro-m-xylene	77	15 - 131	07/06/16 16:12	

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dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 10:40
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-022
Lab Code: R1606749-012

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/08/16 20:56	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/08/16 20:56	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/08/16 20:56	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/08/16 20:56	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/08/16 20:56	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/08/16 20:56	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/08/16 20:56	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 149	07/08/16 20:56	
Tetrachloro-m-xylene	76	15 - 131	07/08/16 20:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:05
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-023
Lab Code: R1606749-013

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/08/16 21:21	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/08/16 21:21	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/08/16 21:21	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/08/16 21:21	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/08/16 21:21	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/08/16 21:21	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/08/16 21:21	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 149	07/08/16 21:21	
Tetrachloro-m-xylene	68	15 - 131	07/08/16 21:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 12:15
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-024
Lab Code: R1606749-014

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/08/16 21:47	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/08/16 21:47	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/08/16 21:47	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/08/16 21:47	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/08/16 21:47	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/08/16 21:47	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/08/16 21:47	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 149	07/08/16 21:47	
Tetrachloro-m-xylene	76	15 - 131	07/08/16 21:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 13:35
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-025
Lab Code: R1606749-015

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/08/16 22:13	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/08/16 22:13	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/08/16 22:13	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/08/16 22:13	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/08/16 22:13	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/08/16 22:13	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/08/16 22:13	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 149	07/08/16 22:13	
Tetrachloro-m-xylene	84	15 - 131	07/08/16 22:13	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 14:20
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-026
Lab Code: R1606749-016

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/08/16 22:39	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/08/16 22:39	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/08/16 22:39	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/08/16 22:39	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/08/16 22:39	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/08/16 22:39	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/08/16 22:39	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	10 - 149	07/08/16 22:39	
Tetrachloro-m-xylene	70	15 - 131	07/08/16 22:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 09:55
Date Received: 06/29/16 15:20

Sample Name: WG-9954-062816-SG-021
Lab Code: R1606749-017

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/08/16 23:04	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/08/16 23:04	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/08/16 23:04	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/08/16 23:04	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/08/16 23:04	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/08/16 23:04	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/08/16 23:04	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	96	10 - 149	07/08/16 23:04	
Tetrachloro-m-xylene	83	15 - 131	07/08/16 23:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606749
Date Collected: 06/28/16 15:10
Date Received: 06/29/16 15:20

Sample Name: RB-9954-062816-SG-001
Lab Code: R1606749-018

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/07/16 20:31	7/1/16	
Aroclor 1221	1.9 U	1.9	1	07/07/16 20:31	7/1/16	
Aroclor 1232	0.94 U	0.94	1	07/07/16 20:31	7/1/16	
Aroclor 1242	0.94 U	0.94	1	07/07/16 20:31	7/1/16	
Aroclor 1248	0.94 U	0.94	1	07/07/16 20:31	7/1/16	
Aroclor 1254	0.94 U	0.94	1	07/07/16 20:31	7/1/16	
Aroclor 1260	0.94 U	0.94	1	07/07/16 20:31	7/1/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	41	10 - 149	07/07/16 20:31	
Tetrachloro-m-xylene	84	15 - 131	07/07/16 20:31	



July 25, 2016

Service Request No:R1606948

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, NY 14304

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

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory July 01, 2016
For your reference, these analyses have been assigned our service request number **R1606948**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7478. You may also contact me via email at Vanessa.Badman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Vanessa Badman
Customer Service
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

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1606948

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1606948-001	WG-9954-062916-SG-028	6/29/2016	1450
R1606948-002	WG-9954-062916-SG-027	6/29/2016	1400
R1606948-003	WG-9954-062916-SG-002	6/29/2016	1540
R1606948-004	TB-9954-062916-SG	6/29/2016	0000

This is a preliminary Tier II report in which your Tier III or Tier IV will soon follow. The report has been reviewed for completeness only. The Case Narrative and Raw Data review will be completed upon the assembling of the final data package and therefore could contain some differences between the preliminary report and final data package. Preliminary Tier II reports containing Metals data could have a slight difference in the final Tier III or Tier IV results due to rounding rules used in the reporting software.

If you have any questions regarding this, please contact your Customer Service Representative.

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered unless otherwise qualified/flagged within the report.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-062916-SG-028			Lab ID: R1606948-001			
---	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	5.5	J	0.22	10	ug/L	8260C
Chlorobenzene	0.89	J	0.29	5.0	ug/L	8260C
Trichloroethene (TCE)	6.4		0.22	5.0	ug/L	8260C
cis-1,2-Dichloroethene	5.0	J	0.30	5.0	ug/L	8260C
1,2,4-Trichlorobenzene	6.3	J	1.0	9.4	ug/L	8270D

CLIENT ID: WG-9954-062916-SG-027			Lab ID: R1606948-002			
---	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	2.5	J	0.22	10	ug/L	8260C
alpha-BHC	0.055		0.028	0.047	ug/L	8081B
delta-BHC	0.062		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.067		0.025	0.047	ug/L	8081B

CLIENT ID: WG-9954-062916-SG-002			Lab ID: R1606948-003			
---	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	0.89	J	0.22	10	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates, Inc.)
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request:R1606948

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1606948-001	WG-9954-062916-SG-028	6/29/2016	1450
R1606948-002	WG-9954-062916-SG-027	6/29/2016	1400
R1606948-003	WG-9954-062916-SG-002	6/29/2016	1540
R1606948-004	TB-9954-062916-SG	6/29/2016	0000

CHAIN-OF-CUSTODY/Analytical Request Document

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

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL
Email: sscrocchi@croworld.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623	
Laboratory Contact: VANESSA BADMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GW SAMPLING-06-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name: DTYRAN, S GARDNER	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	EXTRA(None)	pestPCBs(None)	SVOC(none)	VOA(HCI)	Sample Condition	
									Temp in C	
									Received on ice	Y/N
									Sealed Cooler	Y/N
									Samples Intact	Y/N
Remarks										
WG-9954-062916-SG-028		WG	06/29/2016	14:50	3	3	3	9	MS/MSD	
WG-9954-062916-SG-027		WG	06/29/2016	14:00	1	1	1	3		
RB-9954-062916-SG-002		WG Q	06/29/2016	15:40	1	1	1	3		
TB-9954-062916-SG		WG Q	06/29/2016	00:00	-	-	-	3		
Total Bottles					5	5	5	18	Grand Total:33	

Sample Condition

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

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Lab Courier	2	<i>Scott Seay</i>	6/29/16	1645	<i>Scott Seay</i>	7/1/16	1105
AIRBILL#		<i>Scott Seay</i>	7/1/16	1305	<i>DTYRAN</i>	7-1-16	13.05

R1606948

5

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





Cooler Receipt and Preservation Check Form

R1606948

5

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



Project/Client GHD Folder Number _____

Cooler received on 7-1-16 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: <u>Wet Ice</u> 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?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 7-1-16 Time: 13:26 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.0</u>	<u>4.5</u>					
Correction Factor (°C)	<u>-1.2</u>	<u>0</u>					
Corrected Temp (°C)	<u>2.8</u>	<u>4.5</u>					
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 _____ Same Day Rule _____

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

All samples held in storage location: R-002 by KE on 7-1-16 at 13:32
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: _____

Cooler Breakdown: Date: _____ Time: _____ by: _____

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	
≥12	NaOH									Yes=All samples OK
≤2	HNO ₃									No=Samples were preserved at The lab as listed
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).						PM OK to Adjust: _____
	Na ₂ S ₂ O ₃	-	-							
	ZnAcetate	-	-							
	HCl	**	**							

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: _____
Other Comments: _____

PC Secondary Review: C. 7/1/16

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual

Service Request: R1606948

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001
Sample Matrix: Water

Date Collected: 06/29/16
Date Received: 07/1/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY

DMURPHY

Analyzed By

AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002
Sample Matrix: Water

Date Collected: 06/29/16
Date Received: 07/1/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY

DMURPHY

Analyzed By

AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003
Sample Matrix: Water

Date Collected: 06/29/16
Date Received: 07/1/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY

DMURPHY

Analyzed By

AMOSSES
MPEDRO
FNAEGLER
JMISIUREWICZ

Sample Name: TB-9954-062916-SG
Lab Code: R1606948-004
Sample Matrix: Water

Date Collected: 06/29/16
Date Received: 07/1/16

Analysis Method

8260C

Extracted/Digested By

Analyzed By

FNAEGLER



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

ALS Environmental—Rochester Laboratory

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dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:50
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/05/16 18:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/05/16 18:53	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/05/16 18:53	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/05/16 18:53	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/05/16 18:53	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/05/16 18:53	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/05/16 18:53	
2-Butanone (MEK)	10 U	10	0.81	1	07/05/16 18:53	
2-Hexanone	10 U	10	1.7	1	07/05/16 18:53	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/05/16 18:53	
Acetone	10 U	10	1.3	1	07/05/16 18:53	
Benzene	5.0 U	5.0	0.20	1	07/05/16 18:53	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/05/16 18:53	
Bromoform	5.0 U	5.0	0.42	1	07/05/16 18:53	
Bromomethane	5.0 U	5.0	0.29	1	07/05/16 18:53	
Carbon Disulfide	5.5 J	10	0.22	1	07/05/16 18:53	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/05/16 18:53	
Chlorobenzene	0.89 J	5.0	0.29	1	07/05/16 18:53	
Chloroethane	5.0 U	5.0	0.24	1	07/05/16 18:53	
Chloroform	5.0 U	5.0	0.25	1	07/05/16 18:53	
Chloromethane	5.0 U	5.0	0.21	1	07/05/16 18:53	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/05/16 18:53	
Dichloromethane	5.0 U	5.0	0.60	1	07/05/16 18:53	
Ethylbenzene	5.0 U	5.0	0.20	1	07/05/16 18:53	
Styrene	5.0 U	5.0	0.20	1	07/05/16 18:53	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/05/16 18:53	
Toluene	5.0 U	5.0	0.20	1	07/05/16 18:53	
Trichloroethene (TCE)	6.4	5.0	0.22	1	07/05/16 18:53	
Vinyl Acetate	10 U	10	1.1	1	07/05/16 18:53	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/05/16 18:53	
Xylenes, Total	5.0 U	5.0	0.53	1	07/05/16 18:53	
cis-1,2-Dichloroethene	5.0 J	5.0	0.30	1	07/05/16 18:53	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/05/16 18:53	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/05/16 18:53	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/05/16 18:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	85 - 122	07/05/16 18:53	
Dibromofluoromethane	93	89 - 119	07/05/16 18:53	
Toluene-d8	116	87 - 121	07/05/16 18:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001

Service Request: R1606948
Date Collected: 06/29/16 14:50
Date Received: 07/01/16 13:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.28	110.7	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:00
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/05/16 19:17	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/05/16 19:17	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/05/16 19:17	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/05/16 19:17	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/05/16 19:17	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/05/16 19:17	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/05/16 19:17	
2-Butanone (MEK)	10 U	10	0.81	1	07/05/16 19:17	
2-Hexanone	10 U	10	1.7	1	07/05/16 19:17	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/05/16 19:17	
Acetone	10 U	10	1.3	1	07/05/16 19:17	
Benzene	5.0 U	5.0	0.20	1	07/05/16 19:17	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/05/16 19:17	
Bromoform	5.0 U	5.0	0.42	1	07/05/16 19:17	
Bromomethane	5.0 U	5.0	0.29	1	07/05/16 19:17	
Carbon Disulfide	2.5 J	10	0.22	1	07/05/16 19:17	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/05/16 19:17	
Chlorobenzene	5.0 U	5.0	0.29	1	07/05/16 19:17	
Chloroethane	5.0 U	5.0	0.24	1	07/05/16 19:17	
Chloroform	5.0 U	5.0	0.25	1	07/05/16 19:17	
Chloromethane	5.0 U	5.0	0.21	1	07/05/16 19:17	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/05/16 19:17	
Dichloromethane	5.0 U	5.0	0.60	1	07/05/16 19:17	
Ethylbenzene	5.0 U	5.0	0.20	1	07/05/16 19:17	
Styrene	5.0 U	5.0	0.20	1	07/05/16 19:17	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/05/16 19:17	
Toluene	5.0 U	5.0	0.20	1	07/05/16 19:17	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/05/16 19:17	
Vinyl Acetate	10 U	10	1.1	1	07/05/16 19:17	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/05/16 19:17	
Xylenes, Total	5.0 U	5.0	0.53	1	07/05/16 19:17	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/05/16 19:17	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/05/16 19:17	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/05/16 19:17	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/05/16 19:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85 - 122	07/05/16 19:17	
Dibromofluoromethane	106	89 - 119	07/05/16 19:17	
Toluene-d8	107	87 - 121	07/05/16 19:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002

Service Request: R1606948
Date Collected: 06/29/16 14:00
Date Received: 07/01/16 13:05

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	10.9	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 15:40
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/05/16 19:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/05/16 19:42	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/05/16 19:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/05/16 19:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/05/16 19:42	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/05/16 19:42	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/05/16 19:42	
2-Butanone (MEK)	10 U	10	0.81	1	07/05/16 19:42	
2-Hexanone	10 U	10	1.7	1	07/05/16 19:42	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/05/16 19:42	
Acetone	10 U	10	1.3	1	07/05/16 19:42	
Benzene	5.0 U	5.0	0.20	1	07/05/16 19:42	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/05/16 19:42	
Bromoform	5.0 U	5.0	0.42	1	07/05/16 19:42	
Bromomethane	5.0 U	5.0	0.29	1	07/05/16 19:42	
Carbon Disulfide	0.89 J	10	0.22	1	07/05/16 19:42	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/05/16 19:42	
Chlorobenzene	5.0 U	5.0	0.29	1	07/05/16 19:42	
Chloroethane	5.0 U	5.0	0.24	1	07/05/16 19:42	
Chloroform	5.0 U	5.0	0.25	1	07/05/16 19:42	
Chloromethane	5.0 U	5.0	0.21	1	07/05/16 19:42	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/05/16 19:42	
Dichloromethane	5.0 U	5.0	0.60	1	07/05/16 19:42	
Ethylbenzene	5.0 U	5.0	0.20	1	07/05/16 19:42	
Styrene	5.0 U	5.0	0.20	1	07/05/16 19:42	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/05/16 19:42	
Toluene	5.0 U	5.0	0.20	1	07/05/16 19:42	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/05/16 19:42	
Vinyl Acetate	10 U	10	1.1	1	07/05/16 19:42	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/05/16 19:42	
Xylenes, Total	5.0 U	5.0	0.53	1	07/05/16 19:42	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/05/16 19:42	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/05/16 19:42	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/05/16 19:42	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/05/16 19:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	85 - 122	07/05/16 19:42	
Dibromofluoromethane	104	89 - 119	07/05/16 19:42	
Toluene-d8	110	87 - 121	07/05/16 19:42	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003

Service Request: R1606948
Date Collected: 06/29/16 15:40
Date Received: 07/01/16 13:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
007446-09-5	Sulfur dioxide	1.24	42.5	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 00:00
Date Received: 07/01/16 13:05

Sample Name: TB-9954-062916-SG
Lab Code: R1606948-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/05/16 18:29	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/05/16 18:29	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/05/16 18:29	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/05/16 18:29	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/05/16 18:29	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/05/16 18:29	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/05/16 18:29	
2-Butanone (MEK)	10 U	10	0.81	1	07/05/16 18:29	
2-Hexanone	10 U	10	1.7	1	07/05/16 18:29	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/05/16 18:29	
Acetone	10 U	10	1.3	1	07/05/16 18:29	
Benzene	5.0 U	5.0	0.20	1	07/05/16 18:29	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/05/16 18:29	
Bromoform	5.0 U	5.0	0.42	1	07/05/16 18:29	
Bromomethane	5.0 U	5.0	0.29	1	07/05/16 18:29	
Carbon Disulfide	10 U	10	0.22	1	07/05/16 18:29	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/05/16 18:29	
Chlorobenzene	5.0 U	5.0	0.29	1	07/05/16 18:29	
Chloroethane	5.0 U	5.0	0.24	1	07/05/16 18:29	
Chloroform	5.0 U	5.0	0.25	1	07/05/16 18:29	
Chloromethane	5.0 U	5.0	0.21	1	07/05/16 18:29	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/05/16 18:29	
Dichloromethane	5.0 U	5.0	0.60	1	07/05/16 18:29	
Ethylbenzene	5.0 U	5.0	0.20	1	07/05/16 18:29	
Styrene	5.0 U	5.0	0.20	1	07/05/16 18:29	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/05/16 18:29	
Toluene	5.0 U	5.0	0.20	1	07/05/16 18:29	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/05/16 18:29	
Vinyl Acetate	10 U	10	1.1	1	07/05/16 18:29	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/05/16 18:29	
Xylenes, Total	5.0 U	5.0	0.53	1	07/05/16 18:29	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/05/16 18:29	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/05/16 18:29	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/05/16 18:29	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/05/16 18:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	85 - 122	07/05/16 18:29	
Dibromofluoromethane	109	89 - 119	07/05/16 18:29	
Toluene-d8	107	87 - 121	07/05/16 18:29	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 00:00
Date Received: 07/01/16 13:05

Sample Name: TB-9954-062916-SG
Lab Code: R1606948-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001

Service Request: R1606948
Date Collected: 06/29/16 14:50
Date Received: 07/01/16 13:05

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	6.3 J	9.4	1.0	1	07/06/16 23:58	7/5/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/06/16 23:58	7/5/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/06/16 23:58	7/5/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/06/16 23:58	7/5/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/06/16 23:58	7/5/16	
2,4-Dinitrophenol	47 U	47	20	1	07/06/16 23:58	7/5/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/06/16 23:58	7/5/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/06/16 23:58	7/5/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
2-Nitroaniline	47 U	47	9.1	1	07/06/16 23:58	7/5/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/06/16 23:58	7/5/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/06/16 23:58	7/5/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/06/16 23:58	7/5/16	
3-Nitroaniline	47 U	47	7.7	1	07/06/16 23:58	7/5/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/06/16 23:58	7/5/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/06/16 23:58	7/5/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/06/16 23:58	7/5/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/06/16 23:58	7/5/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/06/16 23:58	7/5/16	
4-Nitroaniline	47 U	47	7.8	1	07/06/16 23:58	7/5/16	
4-Nitrophenol	47 U	47	5.9	1	07/06/16 23:58	7/5/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Anthracene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Benzoic Acid	47 U	47	7.9	1	07/06/16 23:58	7/5/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/06/16 23:58	7/5/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/06/16 23:58	7/5/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/06/16 23:58	7/5/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/06/16 23:58	7/5/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/06/16 23:58	7/5/16	
Chrysene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:50
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/06/16 23:58	7/5/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/06/16 23:58	7/5/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Fluorene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/06/16 23:58	7/5/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/06/16 23:58	7/5/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/06/16 23:58	7/5/16	
Isophorone	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/06/16 23:58	7/5/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Naphthalene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/06/16 23:58	7/5/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/06/16 23:58	7/5/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Phenol	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	
Pyrene	9.4 U	9.4	1.0	1	07/06/16 23:58	7/5/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	07/06/16 23:58	
2-Fluorobiphenyl	69	31 - 118	07/06/16 23:58	
2-Fluorophenol	34	10 - 105	07/06/16 23:58	
Nitrobenzene-d5	60	31 - 110	07/06/16 23:58	
Phenol-d6	26	10 - 107	07/06/16 23:58	
p-Terphenyl-d14	76	30 - 133	07/06/16 23:58	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.23	15	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.32	59	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:00
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/12/16 13:58	7/5/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/12/16 13:58	7/5/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/12/16 13:58	7/5/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/12/16 13:58	7/5/16	
2,4-Dinitrophenol	47 U	47	20	1	07/12/16 13:58	7/5/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/12/16 13:58	7/5/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/12/16 13:58	7/5/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
2-Nitroaniline	47 U	47	9.1	1	07/12/16 13:58	7/5/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/12/16 13:58	7/5/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/12/16 13:58	7/5/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/12/16 13:58	7/5/16	
3-Nitroaniline	47 U	47	7.7	1	07/12/16 13:58	7/5/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/12/16 13:58	7/5/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/12/16 13:58	7/5/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/12/16 13:58	7/5/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/12/16 13:58	7/5/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/12/16 13:58	7/5/16	
4-Nitroaniline	47 U	47	7.8	1	07/12/16 13:58	7/5/16	
4-Nitrophenol	47 U	47	5.9	1	07/12/16 13:58	7/5/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Anthracene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Benzoic Acid	47 U	47	7.9	1	07/12/16 13:58	7/5/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/12/16 13:58	7/5/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/12/16 13:58	7/5/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/12/16 13:58	7/5/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/12/16 13:58	7/5/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/12/16 13:58	7/5/16	
Chrysene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:00
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/12/16 13:58	7/5/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/12/16 13:58	7/5/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Fluorene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/12/16 13:58	7/5/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/12/16 13:58	7/5/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/12/16 13:58	7/5/16	
Isophorone	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/12/16 13:58	7/5/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Naphthalene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/12/16 13:58	7/5/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/12/16 13:58	7/5/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Phenol	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	
Pyrene	9.4 U	9.4	1.0	1	07/12/16 13:58	7/5/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	35 - 141	07/12/16 13:58	
2-Fluorobiphenyl	61	31 - 118	07/12/16 13:58	
2-Fluorophenol	34	10 - 105	07/12/16 13:58	
Nitrobenzene-d5	60	31 - 110	07/12/16 13:58	
Phenol-d6	26	10 - 107	07/12/16 13:58	
p-Terphenyl-d14	71	30 - 133	07/12/16 13:58	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.21	16	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.29	62	JN
000093-05-0	1,4-Benzenediamine, N,N-diethyl-	7.49	15	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 15:40
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/12/16 14:25	7/5/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/12/16 14:25	7/5/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/12/16 14:25	7/5/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/12/16 14:25	7/5/16	
2,4-Dinitrophenol	47 U	47	20	1	07/12/16 14:25	7/5/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/12/16 14:25	7/5/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/12/16 14:25	7/5/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
2-Nitroaniline	47 U	47	9.1	1	07/12/16 14:25	7/5/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/12/16 14:25	7/5/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/12/16 14:25	7/5/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/12/16 14:25	7/5/16	
3-Nitroaniline	47 U	47	7.7	1	07/12/16 14:25	7/5/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/12/16 14:25	7/5/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/12/16 14:25	7/5/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/12/16 14:25	7/5/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/12/16 14:25	7/5/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/12/16 14:25	7/5/16	
4-Nitroaniline	47 U	47	7.8	1	07/12/16 14:25	7/5/16	
4-Nitrophenol	47 U	47	5.9	1	07/12/16 14:25	7/5/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Anthracene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Benzoic Acid	47 U	47	7.9	1	07/12/16 14:25	7/5/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/12/16 14:25	7/5/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/12/16 14:25	7/5/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/12/16 14:25	7/5/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/12/16 14:25	7/5/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/12/16 14:25	7/5/16	
Chrysene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 15:40
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/12/16 14:25	7/5/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/12/16 14:25	7/5/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Fluorene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/12/16 14:25	7/5/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/12/16 14:25	7/5/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/12/16 14:25	7/5/16	
Isophorone	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/12/16 14:25	7/5/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Naphthalene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/12/16 14:25	7/5/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/12/16 14:25	7/5/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Phenol	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	
Pyrene	9.4 U	9.4	1.0	1	07/12/16 14:25	7/5/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	07/12/16 14:25	
2-Fluorobiphenyl	66	31 - 118	07/12/16 14:25	
2-Fluorophenol	33	10 - 105	07/12/16 14:25	
Nitrobenzene-d5	64	31 - 110	07/12/16 14:25	
Phenol-d6	26	10 - 107	07/12/16 14:25	
p-Terphenyl-d14	80	30 - 133	07/12/16 14:25	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.21	15	JN
	unknown	2.29	60	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:50
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
4,4'-DDE	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
4,4'-DDT	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Aldrin	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Dieldrin	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Endosulfan I	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Endosulfan II	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Endrin	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Endrin Ketone	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Heptachlor	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Methoxychlor	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
Toxaphene	0.47 U	0.47	1	07/19/16 14:01	7/6/16	
alpha-BHC	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
alpha-Chlordane	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
beta-BHC	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
delta-BHC	0.048 U	0.048	1	07/19/16 14:01	7/6/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/19/16 14:01	7/6/16	
gamma-Chlordane	0.047 U	0.047	1	07/19/16 14:01	7/6/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 164	07/19/16 14:01	
Tetrachloro-m-xylene	68	10 - 147	07/19/16 14:01	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:00
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
4,4'-DDE	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
4,4'-DDT	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Aldrin	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Dieldrin	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Endosulfan I	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Endosulfan II	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Endrin	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Endrin Ketone	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Heptachlor	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Methoxychlor	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
Toxaphene	0.47 U	0.47	1	07/19/16 15:31	7/6/16	
alpha-BHC	0.055	0.047	1	07/19/16 15:31	7/6/16	
alpha-Chlordane	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
beta-BHC	0.047 U	0.047	1	07/19/16 15:31	7/6/16	
delta-BHC	0.062	0.048	1	07/19/16 15:31	7/6/16	
gamma-BHC (Lindane)	0.067	0.047	1	07/19/16 15:31	7/6/16	
gamma-Chlordane	0.047 U	0.047	1	07/19/16 15:31	7/6/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 164	07/19/16 15:31	
Tetrachloro-m-xylene	48	10 - 147	07/19/16 15:31	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 15:40
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
4,4'-DDE	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
4,4'-DDT	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Aldrin	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Dieldrin	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Endosulfan I	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Endosulfan II	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Endrin	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Endrin Ketone	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Heptachlor	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Methoxychlor	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
Toxaphene	0.47 U	0.47	1	07/19/16 16:00	7/6/16	
alpha-BHC	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
alpha-Chlordane	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
beta-BHC	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
delta-BHC	0.048 U	0.048	1	07/19/16 16:00	7/6/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/19/16 16:00	7/6/16	
gamma-Chlordane	0.047 U	0.047	1	07/19/16 16:00	7/6/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 164	07/19/16 16:00	
Tetrachloro-m-xylene	63	10 - 147	07/19/16 16:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:50
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-028
Lab Code: R1606948-001

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/14/16 14:47	7/6/16	
Aroclor 1221	1.9 U	1.9	1	07/14/16 14:47	7/6/16	
Aroclor 1232	0.94 U	0.94	1	07/14/16 14:47	7/6/16	
Aroclor 1242	0.94 U	0.94	1	07/14/16 14:47	7/6/16	
Aroclor 1248	0.94 U	0.94	1	07/14/16 14:47	7/6/16	
Aroclor 1254	0.94 U	0.94	1	07/14/16 14:47	7/6/16	
Aroclor 1260	0.94 U	0.94	1	07/14/16 14:47	7/6/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 149	07/14/16 14:47	
Tetrachloro-m-xylene	74	15 - 131	07/14/16 14:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 14:00
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-027
Lab Code: R1606948-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/14/16 16:05	7/6/16	
Aroclor 1221	1.9 U	1.9	1	07/14/16 16:05	7/6/16	
Aroclor 1232	0.94 U	0.94	1	07/14/16 16:05	7/6/16	
Aroclor 1242	0.94 U	0.94	1	07/14/16 16:05	7/6/16	
Aroclor 1248	0.94 U	0.94	1	07/14/16 16:05	7/6/16	
Aroclor 1254	0.94 U	0.94	1	07/14/16 16:05	7/6/16	
Aroclor 1260	0.94 U	0.94	1	07/14/16 16:05	7/6/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 149	07/14/16 16:05	
Tetrachloro-m-xylene	53	15 - 131	07/14/16 16:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/9954 Annual
Sample Matrix: Water

Service Request: R1606948
Date Collected: 06/29/16 15:40
Date Received: 07/01/16 13:05

Sample Name: WG-9954-062916-SG-002
Lab Code: R1606948-003

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/12/16 19:07	7/6/16	
Aroclor 1221	1.9 U	1.9	1	07/12/16 19:07	7/6/16	
Aroclor 1232	0.94 U	0.94	1	07/12/16 19:07	7/6/16	
Aroclor 1242	0.94 U	0.94	1	07/12/16 19:07	7/6/16	
Aroclor 1248	0.94 U	0.94	1	07/12/16 19:07	7/6/16	
Aroclor 1254	0.94 U	0.94	1	07/12/16 19:07	7/6/16	
Aroclor 1260	0.94 U	0.94	1	07/12/16 19:07	7/6/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 149	07/12/16 19:07	
Tetrachloro-m-xylene	69	15 - 131	07/12/16 19:07	



July 26, 2016

Service Request No:R1607051

Ms. Kathy Willy
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, NY 14304

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

Dear Ms.Willy,

Enclosed are the results of the sample(s) submitted to our laboratory July 08, 2016
For your reference, these analyses have been assigned our service request number **R1607051**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7478. You may also contact me via email at Vanessa.Badman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Vanessa Badman
Customer Service
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

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1607051

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1607051-001	TB-9954-070516-SG	7/5/2016	
R1607051-002	WG-9954-070516-SG-029	7/5/2016	1230
R1607051-003	WG-9954-070516-SG-030	7/5/2016	1325
R1607051-004	WG-9954-070516-SG-031	7/5/2016	1410
R1607051-005	WG-9954-070716-SG-033	7/7/2016	1130
R1607051-006	WG-9954-070716-SG-035	7/7/2016	1210
R1607051-007	WG-9954-070716-SG-032	7/7/2016	1025
R1607051-008	WG-9954-070716-SG-034	7/7/2016	1130
R1607051-009	TB-9954-070716-SG	7/7/2016	0000

This is a preliminary Tier II report in which your Tier III or Tier IV will soon follow. The report has been reviewed for completeness only. The Case Narrative and Raw Data review will be completed upon the assembling of the final data package and therefore could contain some differences between the preliminary report and final data package. Preliminary Tier II reports containing Metals data could have a slight difference in the final Tier III or Tier IV results due to rounding rules used in the reporting software.

If you have any questions regarding this, please contact your Customer Service Representative.

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered unless otherwise qualified/flagged within the report.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

SAMPLE DETECTION SUMMARY

CLIENT ID: WG-9954-070516-SG-029	Lab ID: R1607051-002
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Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	1.4	J	1.3	10	ug/L	8260C

CLIENT ID: WG-9954-070516-SG-030	Lab ID: R1607051-003
---	-----------------------------

Analyte	Results	Flag	MDL	PQL	Units	Method
Benzene	7100		40	1000	ug/L	8260C
Chlorobenzene	2700		58	1000	ug/L	8260C
Chloroform	400	J	50	1000	ug/L	8260C
Toluene	23000		40	1000	ug/L	8260C
Trichloroethene (TCE)	78	J	44	1000	ug/L	8260C
Benzoic Acid	1700		160	940	ug/L	8270D
Benzyl Alcohol	110	J	26	190	ug/L	8270D
Endosulfan Sulfate	1.3	P	0.50	0.94	ug/L	8081B
alpha-BHC	25		0.56	0.94	ug/L	8081B
beta-BHC	6.7		0.56	0.94	ug/L	8081B
delta-BHC	11		0.96	0.96	ug/L	8081B
gamma-BHC (Lindane)	4.9		0.50	0.94	ug/L	8081B

CLIENT ID: WG-9954-070516-SG-031	Lab ID: R1607051-004
---	-----------------------------

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	0.84	J	0.22	10	ug/L	8260C

CLIENT ID: WG-9954-070716-SG-033	Lab ID: R1607051-005
---	-----------------------------

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	0.35	J	0.22	10	ug/L	8260C
delta-BHC	0.065		0.048	0.048	ug/L	8081B

CLIENT ID: WG-9954-070716-SG-035	Lab ID: R1607051-006
---	-----------------------------

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Disulfide	0.23	J	0.22	10	ug/L	8260C
alpha-BHC	0.13		0.028	0.047	ug/L	8081B
delta-BHC	0.15		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.18		0.025	0.047	ug/L	8081B

CLIENT ID: WG-9954-070716-SG-034	Lab ID: R1607051-008
---	-----------------------------

Analyte	Results	Flag	MDL	PQL	Units	Method
alpha-BHC	0.082		0.028	0.047	ug/L	8081B
delta-BHC	0.21		0.048	0.048	ug/L	8081B
gamma-BHC (Lindane)	0.11		0.025	0.047	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 Services Inc. (Formerly Conestoga-Rovers & Associates, Inc.)
Project: Love Canal:292-402-D02-3100/292-402-999-3100

Service Request:R1607051

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1607051-001	TB-9954-070516-SG	7/5/2016	
R1607051-002	WG-9954-070516-SG-029	7/5/2016	1230
R1607051-003	WG-9954-070516-SG-030	7/5/2016	1325
R1607051-004	WG-9954-070516-SG-031	7/5/2016	1410
R1607051-005	WG-9954-070716-SG-033	7/7/2016	1130
R1607051-006	WG-9954-070716-SG-035	7/7/2016	1210
R1607051-007	WG-9954-070716-SG-032	7/7/2016	1025
R1607051-008	WG-9954-070716-SG-034	7/7/2016	1130
R1607051-009	TB-9954-070716-SG	7/7/2016	0000

CHAIN-OF-CUSTODY/Analytical Request Document

The Chain-of-Custody is an Essential Document. All relevant fields must be completed.

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2656	Project Name: LOVE CANAL ANNUAL
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623	
Laboratory Contact: VANESSA BACMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements	

Event Information	
ID#: LC ANNUAL GW SAMPLING-07-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name:	

Sample Identification	Valid Matrix Code				Matrix Code	Date Collected	Time Collected	EXTRA(None)	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks
	WG Groundwater	WB Borehole Water	WS Surface Water	SO Soil	SE Sediment							
TB-9954-070516-SG					WG	07/05/2016	00:00	0	0	0	3	
WG-9954-070516-SG-029					WG	07/05/2016	12:30	1	1	1	3	
WG-9954-070516-SG-030					WG	07/05/2016	13:25	1	1	1	3	
WG-9954-070516-SG-031					WG	07/05/2016	14:10	1	1	1	3	
Total Bottles								3	3	3	12	Grand Total:21

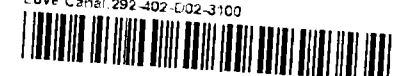
Sample Condition

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

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Lab Courier	1						
AIRBILL#							

R1607051

GHD Services Inc
Love Canal 292-402-999-3100



5



Cooler Receipt and Preservation Check Form

R1607051

5

GHD Services Inc.
Love Canal: 292-402-D02-3100



Project/Client GHD Folder Number _____

Cooler received on 7/6/16 by: SAB COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 7/6/15 Time: 1555 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>13</u>							
Correction Factor (°C)	<u>-</u>							
Corrected Temp (°C)	<u>13</u>							
Within 0-6°C?	<u>Y</u> N	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	Y N

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

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

All samples held in storage location: E-002 by SAB on 7/6/16 at 1555
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: _____

Cooler Breakdown: Date: 7/6/16 Time: 2155 by: P

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**	<u>4115022</u>	<u>6/17</u>				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042516-18LT, client covered
Other Comments: _____

PC Secondary Review: _____

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

EVENT COMPLETE

CHAIN-OF-CUSTODY/Analytical Request Document

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

Client Information	
GLEN SPRINGS HOLDINGS INC	Report To: Susan Scrocchi
805 97TH STREET	Copy To:
LOVE CANAL	
NIAGARA FALLS, NEW YORK 14304	Invoice To:
Phone: 716-283-0111	PO:
Fax: 716-283-2856	Project Name: LOVE CANAL ANNUAL
Email: sscrocchi@craworld.com	Project Number: 9954

Lab Information	
Laboratory: ALS	
Laboratory Location: 1565 JEFFERSON RD BUILDING 300, SUITE 360 ROCHESTER, NY 14623	
Laboratory Contact: VANESSA BADMAN	
Requested Due Date:	TAT: 10
QA/QC Requirements:	

Event Information	
ID#: LC ANNUAL GV/ SAMPLING-08-1	
SSOW Ref#: 292-402-999-3100	
Sampler Name: <i>07/2016 SGA-JULY</i>	

Sample Identification	Valid Matrix Code WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment	Matrix Code	Date Collected	Time Collected	EXTRA(None)	PestPCBs(None)	SVOC(none)	VOA(HCI)	Remarks	Sample Condition	
										Temp in C	
										Received on ice	Y/N
										Sealed Cocler	Y/N
										Samples in act	Y/N
WG-9954-070716-SG-033		WG	07/07/2016	11:30	1	1	1	3			
WG-9954-070716-SG-035		WG	07/07/2016	12:10	1	1	1	3			
WG-9954-070716-SG-032		WG	07/07/2016	10:25	1	1	1	3			
WG-9954-070716-SG-034		WG	07/07/2016	11:30	1	1	1	3			
TB-9954-070716-SG		WG	07/07/2016	00:00	-	-	-	3			
Total Bottles					4	4	4	15	Grand Total:27		

Sample Condition

Temp in C	
Received on ice	Y/N
Sealed Cocler	Y/N
Samples in act	Y/N

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY:	DATE	TIME	RECIEVED BY:	DATE	TIME
Lab Courier	1	<i>For David</i>	7/8/16	1400	<i>Scott</i>	7/8/16	1105
AIRBILL#:		<i>Scott</i>	7/8/16	1345			

R1607051

5

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





Cooler Receipt and Preservation Check For

R1607051

5

GHD Services Inc.
Love Canal 292-402-D02-3100Project/Client GHD Folder Number R16-7051Cooler received on 7/8/16 by: dlwCOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 7/8/16 Time: 1330 ID: IR#3 R#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.4°</u>						
Correction Factor (°C)	<u>±0.0°</u>						
Corrected Temp (°C)	<u>3.4°</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ 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-007 by dlw on 7/8/16 at 1330
5035 samples placed in storage location: _____ by _____ on _____ at _____Cooler Breakdown: Date: 7/19/16 Time: 1142 by: dlw

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**	<u>Client label</u>					

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: client label
Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

PC Secondary Review: _____

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Laboratory Group

Acronyms

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

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Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100

Service Request: R1607051

Sample Name: TB-9954-070516-SG
Lab Code: R1607051-001
Sample Matrix: Water

Date Collected: 07/5/16
Date Received: 07/6/16

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002
Sample Matrix: Water

Date Collected: 07/5/16
Date Received: 07/6/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY

DMURPHY

Analyzed By
AMOSSES
MPEDRO
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003
Sample Matrix: Water

Date Collected: 07/5/16
Date Received: 07/6/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY

DMURPHY

Analyzed By
MPEDRO
MPEDRO
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004
Sample Matrix: Water

Date Collected: 07/5/16
Date Received: 07/6/16

Analysis Method
8081B
8082A
8260C
8270D

Extracted/Digested By
DMURPHY
DMURPHY

DMURPHY

Analyzed By
AMOSSES
MPEDRO
KRUEST
JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100

Service Request: R1607051

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005
Sample Matrix: Water

Date Collected: 07/7/16
Date Received: 07/8/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY

DMURPHY

Analyzed By

MPEDRO
MPEDRO
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006
Sample Matrix: Water

Date Collected: 07/7/16
Date Received: 07/8/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY

DMURPHY

Analyzed By

MPEDRO
MPEDRO
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007
Sample Matrix: Water

Date Collected: 07/7/16
Date Received: 07/8/16

Analysis Method

8081B
8082A
8260C
8270D

Extracted/Digested By

DMURPHY
DMURPHY

DMURPHY

Analyzed By

AMOSSES
MPEDRO
KRUEST
JMISIUREWICZ

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008
Sample Matrix: Water

Date Collected: 07/7/16
Date Received: 07/8/16

Analysis Method

8081B

Extracted/Digested By

DMURPHY

Analyzed By

MPEDRO

ALS Group USA, Corp.
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Analyst Summary report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100

Service Request: R1607051

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008
Sample Matrix: Water

Date Collected: 07/7/16
Date Received: 07/8/16

Analysis Method

8082A
8260C
8270D

Extracted/Digested By

DMURPHY

DMURPHY

Analyzed By

MPEDRO
KRUEST
JMISIUREWICZ

Sample Name: TB-9954-070716-SG
Lab Code: R1607051-009
Sample Matrix: Water

Date Collected: 07/7/16
Date Received: 07/8/16

Analysis Method

8260C

Extracted/Digested By

Analyzed By

KRUEST



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16
Date Received: 07/06/16 15:35

Sample Name: TB-9954-070516-SG
Lab Code: R1607051-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 13:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 13:13	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 13:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 13:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 13:13	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 13:13	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 13:13	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 13:13	
2-Hexanone	10 U	10	1.7	1	07/12/16 13:13	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 13:13	
Acetone	10 U	10	1.3	1	07/12/16 13:13	
Benzene	5.0 U	5.0	0.20	1	07/12/16 13:13	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 13:13	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 13:13	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 13:13	
Carbon Disulfide	10 U	10	0.22	1	07/12/16 13:13	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 13:13	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 13:13	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 13:13	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 13:13	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 13:13	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 13:13	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 13:13	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 13:13	
Styrene	5.0 U	5.0	0.20	1	07/12/16 13:13	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 13:13	
Toluene	5.0 U	5.0	0.20	1	07/12/16 13:13	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 13:13	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 13:13	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 13:13	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 13:13	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 13:13	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 13:13	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 13:13	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 13:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	07/12/16 13:13	
Dibromofluoromethane	115	89 - 119	07/12/16 13:13	
Toluene-d8	113	87 - 121	07/12/16 13:13	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16
Date Received: 07/06/16 15:35

Sample Name: TB-9954-070516-SG
Lab Code: R1607051-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 12:30
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 14:14	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 14:14	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 14:14	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 14:14	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 14:14	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 14:14	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 14:14	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 14:14	
2-Hexanone	10 U	10	1.7	1	07/12/16 14:14	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 14:14	
Acetone	1.4 J	10	1.3	1	07/12/16 14:14	
Benzene	5.0 U	5.0	0.20	1	07/12/16 14:14	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 14:14	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 14:14	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 14:14	
Carbon Disulfide	10 U	10	0.22	1	07/12/16 14:14	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 14:14	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 14:14	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 14:14	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 14:14	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 14:14	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 14:14	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 14:14	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 14:14	
Styrene	5.0 U	5.0	0.20	1	07/12/16 14:14	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 14:14	
Toluene	5.0 U	5.0	0.20	1	07/12/16 14:14	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 14:14	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 14:14	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 14:14	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 14:14	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 14:14	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 14:14	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 14:14	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 14:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	07/12/16 14:14	
Dibromofluoromethane	112	89 - 119	07/12/16 14:14	
Toluene-d8	113	87 - 121	07/12/16 14:14	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002

Service Request: R1607051
Date Collected: 07/05/16 12:30
Date Received: 07/06/16 15:35

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	1000	72	200	07/12/16 14:45	
1,1,2,2-Tetrachloroethane	1000 U	1000	50	200	07/12/16 14:45	
1,1,2-Trichloroethane	1000 U	1000	68	200	07/12/16 14:45	
1,1-Dichloroethane (1,1-DCA)	1000 U	1000	40	200	07/12/16 14:45	
1,1-Dichloroethene (1,1-DCE)	1000 U	1000	120	200	07/12/16 14:45	
1,2-Dichloroethane	1000 U	1000	72	200	07/12/16 14:45	
1,2-Dichloropropane	1000 U	1000	40	200	07/12/16 14:45	
2-Butanone (MEK)	2000 U	2000	170	200	07/12/16 14:45	
2-Hexanone	2000 U	2000	340	200	07/12/16 14:45	
4-Methyl-2-pentanone	2000 U	2000	140	200	07/12/16 14:45	
Acetone	2000 U	2000	250	200	07/12/16 14:45	
Benzene	7100	1000	40	200	07/12/16 14:45	
Bromodichloromethane	1000 U	1000	64	200	07/12/16 14:45	
Bromoform	1000 U	1000	84	200	07/12/16 14:45	
Bromomethane	1000 U	1000	58	200	07/12/16 14:45	
Carbon Disulfide	2000 U	2000	44	200	07/12/16 14:45	
Carbon Tetrachloride	1000 U	1000	90	200	07/12/16 14:45	
Chlorobenzene	2700	1000	58	200	07/12/16 14:45	
Chloroethane	1000 U	1000	48	200	07/12/16 14:45	
Chloroform	400 J	1000	50	200	07/12/16 14:45	
Chloromethane	1000 U	1000	42	200	07/12/16 14:45	
Dibromochloromethane	1000 U	1000	62	200	07/12/16 14:45	
Dichloromethane	1000 U	1000	120	200	07/12/16 14:45	
Ethylbenzene	1000 U	1000	40	200	07/12/16 14:45	
Styrene	1000 U	1000	40	200	07/12/16 14:45	
Tetrachloroethene (PCE)	1000 U	1000	60	200	07/12/16 14:45	
Toluene	23000	1000	40	200	07/12/16 14:45	
Trichloroethene (TCE)	78 J	1000	44	200	07/12/16 14:45	
Vinyl Acetate	2000 U	2000	210	200	07/12/16 14:45	
Vinyl Chloride	1000 U	1000	64	200	07/12/16 14:45	
Xylenes, Total	1000 U	1000	110	200	07/12/16 14:45	
cis-1,2-Dichloroethene	1000 U	1000	60	200	07/12/16 14:45	
cis-1,3-Dichloropropene	1000 U	1000	48	200	07/12/16 14:45	
trans-1,2-Dichloroethene	1000 U	1000	66	200	07/12/16 14:45	
trans-1,3-Dichloropropene	1000 U	1000	40	200	07/12/16 14:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	07/12/16 14:45	
Dibromofluoromethane	112	89 - 119	07/12/16 14:45	
Toluene-d8	115	87 - 121	07/12/16 14:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 14:10
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 18:21	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 18:21	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 18:21	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 18:21	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 18:21	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 18:21	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 18:21	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 18:21	
2-Hexanone	10 U	10	1.7	1	07/12/16 18:21	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 18:21	
Acetone	10 U	10	1.3	1	07/12/16 18:21	
Benzene	5.0 U	5.0	0.20	1	07/12/16 18:21	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 18:21	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 18:21	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 18:21	
Carbon Disulfide	0.84 J	10	0.22	1	07/12/16 18:21	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 18:21	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 18:21	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 18:21	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 18:21	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 18:21	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 18:21	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 18:21	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 18:21	
Styrene	5.0 U	5.0	0.20	1	07/12/16 18:21	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 18:21	
Toluene	5.0 U	5.0	0.20	1	07/12/16 18:21	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 18:21	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 18:21	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 18:21	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 18:21	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 18:21	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 18:21	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 18:21	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 18:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	07/12/16 18:21	
Dibromofluoromethane	115	89 - 119	07/12/16 18:21	
Toluene-d8	115	87 - 121	07/12/16 18:21	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 14:10
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 18:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 18:51	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 18:51	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 18:51	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 18:51	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 18:51	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 18:51	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 18:51	
2-Hexanone	10 U	10	1.7	1	07/12/16 18:51	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 18:51	
Acetone	10 U	10	1.3	1	07/12/16 18:51	
Benzene	5.0 U	5.0	0.20	1	07/12/16 18:51	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 18:51	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 18:51	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 18:51	
Carbon Disulfide	0.35 J	10	0.22	1	07/12/16 18:51	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 18:51	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 18:51	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 18:51	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 18:51	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 18:51	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 18:51	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 18:51	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 18:51	
Styrene	5.0 U	5.0	0.20	1	07/12/16 18:51	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 18:51	
Toluene	5.0 U	5.0	0.20	1	07/12/16 18:51	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 18:51	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 18:51	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 18:51	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 18:51	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 18:51	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 18:51	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 18:51	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 18:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	07/12/16 18:51	
Dibromofluoromethane	114	89 - 119	07/12/16 18:51	
Toluene-d8	113	87 - 121	07/12/16 18:51	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 12:10
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 17:50	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 17:50	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 17:50	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 17:50	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 17:50	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 17:50	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 17:50	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 17:50	
2-Hexanone	10 U	10	1.7	1	07/12/16 17:50	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 17:50	
Acetone	10 U	10	1.3	1	07/12/16 17:50	
Benzene	5.0 U	5.0	0.20	1	07/12/16 17:50	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 17:50	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 17:50	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 17:50	
Carbon Disulfide	0.23 J	10	0.22	1	07/12/16 17:50	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 17:50	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 17:50	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 17:50	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 17:50	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 17:50	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 17:50	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 17:50	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 17:50	
Styrene	5.0 U	5.0	0.20	1	07/12/16 17:50	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 17:50	
Toluene	5.0 U	5.0	0.20	1	07/12/16 17:50	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 17:50	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 17:50	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 17:50	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 17:50	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 17:50	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 17:50	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 17:50	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 17:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	07/12/16 17:50	
Dibromofluoromethane	112	89 - 119	07/12/16 17:50	
Toluene-d8	114	87 - 121	07/12/16 17:50	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006

Service Request: R1607051
Date Collected: 07/07/16 12:10
Date Received: 07/08/16 13:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 10:25
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 16:48	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 16:48	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 16:48	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 16:48	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 16:48	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 16:48	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 16:48	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 16:48	
2-Hexanone	10 U	10	1.7	1	07/12/16 16:48	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 16:48	
Acetone	10 U	10	1.3	1	07/12/16 16:48	
Benzene	5.0 U	5.0	0.20	1	07/12/16 16:48	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 16:48	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 16:48	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 16:48	
Carbon Disulfide	10 U	10	0.22	1	07/12/16 16:48	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 16:48	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 16:48	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 16:48	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 16:48	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 16:48	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 16:48	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 16:48	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 16:48	
Styrene	5.0 U	5.0	0.20	1	07/12/16 16:48	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 16:48	
Toluene	5.0 U	5.0	0.20	1	07/12/16 16:48	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 16:48	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 16:48	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 16:48	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 16:48	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 16:48	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 16:48	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 16:48	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 16:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	07/12/16 16:48	
Dibromofluoromethane	111	89 - 119	07/12/16 16:48	
Toluene-d8	111	87 - 121	07/12/16 16:48	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007

Service Request: R1607051
Date Collected: 07/07/16 10:25
Date Received: 07/08/16 13:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 17:19	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 17:19	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 17:19	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 17:19	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 17:19	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 17:19	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 17:19	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 17:19	
2-Hexanone	10 U	10	1.7	1	07/12/16 17:19	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 17:19	
Acetone	10 U	10	1.3	1	07/12/16 17:19	
Benzene	5.0 U	5.0	0.20	1	07/12/16 17:19	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 17:19	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 17:19	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 17:19	
Carbon Disulfide	10 U	10	0.22	1	07/12/16 17:19	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 17:19	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 17:19	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 17:19	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 17:19	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 17:19	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 17:19	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 17:19	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 17:19	
Styrene	5.0 U	5.0	0.20	1	07/12/16 17:19	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 17:19	
Toluene	5.0 U	5.0	0.20	1	07/12/16 17:19	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 17:19	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 17:19	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 17:19	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 17:19	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 17:19	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 17:19	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 17:19	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 17:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	07/12/16 17:19	
Dibromofluoromethane	113	89 - 119	07/12/16 17:19	
Toluene-d8	114	87 - 121	07/12/16 17:19	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water
Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 00:00
Date Received: 07/08/16 13:20

Sample Name: TB-9954-070716-SG
Lab Code: R1607051-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.36	1	07/12/16 13:44	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.25	1	07/12/16 13:44	
1,1,2-Trichloroethane	5.0 U	5.0	0.34	1	07/12/16 13:44	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	07/12/16 13:44	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.57	1	07/12/16 13:44	
1,2-Dichloroethane	5.0 U	5.0	0.36	1	07/12/16 13:44	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	07/12/16 13:44	
2-Butanone (MEK)	10 U	10	0.81	1	07/12/16 13:44	
2-Hexanone	10 U	10	1.7	1	07/12/16 13:44	
4-Methyl-2-pentanone	10 U	10	0.67	1	07/12/16 13:44	
Acetone	10 U	10	1.3	1	07/12/16 13:44	
Benzene	5.0 U	5.0	0.20	1	07/12/16 13:44	
Bromodichloromethane	5.0 U	5.0	0.32	1	07/12/16 13:44	
Bromoform	5.0 U	5.0	0.42	1	07/12/16 13:44	
Bromomethane	5.0 U	5.0	0.29	1	07/12/16 13:44	
Carbon Disulfide	10 U	10	0.22	1	07/12/16 13:44	
Carbon Tetrachloride	5.0 U	5.0	0.45	1	07/12/16 13:44	
Chlorobenzene	5.0 U	5.0	0.29	1	07/12/16 13:44	
Chloroethane	5.0 U	5.0	0.24	1	07/12/16 13:44	
Chloroform	5.0 U	5.0	0.25	1	07/12/16 13:44	
Chloromethane	5.0 U	5.0	0.21	1	07/12/16 13:44	
Dibromochloromethane	5.0 U	5.0	0.31	1	07/12/16 13:44	
Dichloromethane	5.0 U	5.0	0.60	1	07/12/16 13:44	
Ethylbenzene	5.0 U	5.0	0.20	1	07/12/16 13:44	
Styrene	5.0 U	5.0	0.20	1	07/12/16 13:44	
Tetrachloroethene (PCE)	5.0 U	5.0	0.30	1	07/12/16 13:44	
Toluene	5.0 U	5.0	0.20	1	07/12/16 13:44	
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	07/12/16 13:44	
Vinyl Acetate	10 U	10	1.1	1	07/12/16 13:44	
Vinyl Chloride	5.0 U	5.0	0.32	1	07/12/16 13:44	
Xylenes, Total	5.0 U	5.0	0.53	1	07/12/16 13:44	
cis-1,2-Dichloroethene	5.0 U	5.0	0.30	1	07/12/16 13:44	
cis-1,3-Dichloropropene	5.0 U	5.0	0.24	1	07/12/16 13:44	
trans-1,2-Dichloroethene	5.0 U	5.0	0.33	1	07/12/16 13:44	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	07/12/16 13:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	07/12/16 13:44	
Dibromofluoromethane	114	89 - 119	07/12/16 13:44	
Toluene-d8	111	87 - 121	07/12/16 13:44	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 00:00
Date Received: 07/08/16 13:20

Sample Name: TB-9954-070716-SG
Lab Code: R1607051-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Tentatively Identified Compounds

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 12:30
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/12/16 18:07	7/7/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/12/16 18:07	7/7/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/12/16 18:07	7/7/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/12/16 18:07	7/7/16	
2,4-Dinitrophenol	47 U	47	20	1	07/12/16 18:07	7/7/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/12/16 18:07	7/7/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/12/16 18:07	7/7/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
2-Nitroaniline	47 U	47	9.1	1	07/12/16 18:07	7/7/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/12/16 18:07	7/7/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/12/16 18:07	7/7/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/12/16 18:07	7/7/16	
3-Nitroaniline	47 U	47	7.7	1	07/12/16 18:07	7/7/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/12/16 18:07	7/7/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/12/16 18:07	7/7/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/12/16 18:07	7/7/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/12/16 18:07	7/7/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/12/16 18:07	7/7/16	
4-Nitroaniline	47 U	47	7.8	1	07/12/16 18:07	7/7/16	
4-Nitrophenol	47 U	47	5.9	1	07/12/16 18:07	7/7/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Anthracene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Benzoic Acid	47 U	47	7.9	1	07/12/16 18:07	7/7/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/12/16 18:07	7/7/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/12/16 18:07	7/7/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/12/16 18:07	7/7/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/12/16 18:07	7/7/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/12/16 18:07	7/7/16	
Chrysene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 12:30
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/12/16 18:07	7/7/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/12/16 18:07	7/7/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Fluorene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/12/16 18:07	7/7/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/12/16 18:07	7/7/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/12/16 18:07	7/7/16	
Isophorone	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/12/16 18:07	7/7/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Naphthalene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/12/16 18:07	7/7/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/12/16 18:07	7/7/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Phenol	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	
Pyrene	9.4 U	9.4	1.0	1	07/12/16 18:07	7/7/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	07/12/16 18:07	
2-Fluorobiphenyl	62	31 - 118	07/12/16 18:07	
2-Fluorophenol	33	10 - 105	07/12/16 18:07	
Nitrobenzene-d5	60	31 - 110	07/12/16 18:07	
Phenol-d6	25	10 - 107	07/12/16 18:07	
p-Terphenyl-d14	72	30 - 133	07/12/16 18:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.21	17	JN
	unknown	2.29	60	J

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
1,2-Dichlorobenzene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
1,3-Dichlorobenzene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
1,4-Dichlorobenzene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
2,4,5-Trichlorophenol	190 U	190	35	20	07/21/16 13:19	7/18/16	*
2,4,6-Trichlorophenol	190 U	190	27	20	07/21/16 13:19	7/18/16	*
2,4-Dichlorophenol	190 U	190	25	20	07/21/16 13:19	7/18/16	*
2,4-Dimethylphenol	190 U	190	30	20	07/21/16 13:19	7/18/16	*
2,4-Dinitrophenol	940 U	940	390	20	07/21/16 13:19	7/18/16	*
2,4-Dinitrotoluene	190 U	190	32	20	07/21/16 13:19	7/18/16	*
2,6-Dinitrotoluene	190 U	190	35	20	07/21/16 13:19	7/18/16	*
2-Chloronaphthalene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
2-Chlorophenol	190 U	190	20	20	07/21/16 13:19	7/18/16	*
2-Methylnaphthalene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
2-Methylphenol	190 U	190	20	20	07/21/16 13:19	7/18/16	*
2-Nitroaniline	940 U	940	190	20	07/21/16 13:19	7/18/16	*
2-Nitrophenol	190 U	190	28	20	07/21/16 13:19	7/18/16	*
3,3'-Dichlorobenzidine	190 U	190	89	20	07/21/16 13:19	7/18/16	*
3- and 4-Methylphenol Coelution	190 U	190	39	20	07/21/16 13:19	7/18/16	*
3-Nitroaniline	940 U	940	160	20	07/21/16 13:19	7/18/16	*
4,6-Dinitro-2-methylphenol	940 U	940	220	20	07/21/16 13:19	7/18/16	*
4-Bromophenyl Phenyl Ether	190 U	190	43	20	07/21/16 13:19	7/18/16	*
4-Chloro-3-methylphenol	190 U	190	23	20	07/21/16 13:19	7/18/16	*
4-Chloroaniline	190 U	190	29	20	07/21/16 13:19	7/18/16	*
4-Chlorophenyl Phenyl Ether	190 U	190	23	20	07/21/16 13:19	7/18/16	*
4-Nitroaniline	940 U	940	160	20	07/21/16 13:19	7/18/16	*
4-Nitrophenol	940 U	940	120	20	07/21/16 13:19	7/18/16	*
Acenaphthene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Acenaphthylene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Anthracene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Benz(a)anthracene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Benzo(a)pyrene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Benzo(b)fluoranthene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Benzo(g,h,i)perylene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Benzo(k)fluoranthene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Benzoic Acid	1700	940	160	20	07/21/16 13:19	7/18/16	*
Benzyl Alcohol	110 J	190	26	20	07/21/16 13:19	7/18/16	*
2,2'-Oxybis(1-chloropropane)	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Bis(2-chloroethoxy)methane	190 U	190	44	20	07/21/16 13:19	7/18/16	*
Bis(2-chloroethyl) Ether	190 U	190	26	20	07/21/16 13:19	7/18/16	*
Bis(2-ethylhexyl) Phthalate	190 U	190	24	20	07/21/16 13:19	7/18/16	*
Butyl Benzyl Phthalate	190 U	190	48	20	07/21/16 13:19	7/18/16	*
Chrysene	190 U	190	20	20	07/21/16 13:19	7/18/16	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Di-n-octyl Phthalate	190 U	190	24	20	07/21/16 13:19	7/18/16	*
Dibenz(a,h)anthracene	190 U	190	25	20	07/21/16 13:19	7/18/16	*
Dibenzofuran	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Diethyl Phthalate	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Dimethyl Phthalate	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Fluoranthene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Fluorene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Hexachlorobenzene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Hexachlorobutadiene	190 U	190	25	20	07/21/16 13:19	7/18/16	*
Hexachlorocyclopentadiene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Hexachloroethane	190 U	190	24	20	07/21/16 13:19	7/18/16	*
Indeno(1,2,3-cd)pyrene	190 U	190	24	20	07/21/16 13:19	7/18/16	*
Isophorone	190 U	190	20	20	07/21/16 13:19	7/18/16	*
N-Nitrosodi-n-propylamine	190 U	190	26	20	07/21/16 13:19	7/18/16	*
N-Nitrosodiphenylamine	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Naphthalene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Nitrobenzene	190 U	190	32	20	07/21/16 13:19	7/18/16	*
Pentachlorophenol (PCP)	940 U	940	140	20	07/21/16 13:19	7/18/16	*
Phenanthrene	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Phenol	190 U	190	20	20	07/21/16 13:19	7/18/16	*
Pyrene	190 U	190	20	20	07/21/16 13:19	7/18/16	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	07/21/16 13:19	D
2-Fluorobiphenyl	0 *	31 - 118	07/21/16 13:19	D
2-Fluorophenol	0 *	10 - 105	07/21/16 13:19	D
Nitrobenzene-d5	0 *	31 - 110	07/21/16 13:19	D
Phenol-d6	0 *	10 - 107	07/21/16 13:19	D
p-Terphenyl-d14	0 *	30 - 133	07/21/16 13:19	D

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000095-49-8	Benzene, 1-chloro-2-methyl-	4.36	960	JN
000106-43-4	Benzene, 1-chloro-4-methyl-	4.41	520	JN
017849-38-6	Benzenemethanol, 2-chloro-	6.11	250	JN
000074-11-3	Benzoic acid, 4-chloro-	6.82	2800	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	22 J	94	10	10	07/14/16 16:13	7/7/16	
1,2-Dichlorobenzene	14 J	94	10	10	07/14/16 16:13	7/7/16	
1,3-Dichlorobenzene	94 U	94	10	10	07/14/16 16:13	7/7/16	
1,4-Dichlorobenzene	36 J	94	10	10	07/14/16 16:13	7/7/16	
2,4,5-Trichlorophenol	94 U	94	18	10	07/14/16 16:13	7/7/16	
2,4,6-Trichlorophenol	94 U	94	14	10	07/14/16 16:13	7/7/16	
2,4-Dichlorophenol	42 J	94	13	10	07/14/16 16:13	7/7/16	
2,4-Dimethylphenol	94 U	94	15	10	07/14/16 16:13	7/7/16	
2,4-Dinitrophenol	470 U	470	200	10	07/14/16 16:13	7/7/16	
2,4-Dinitrotoluene	94 U	94	16	10	07/14/16 16:13	7/7/16	
2,6-Dinitrotoluene	94 U	94	18	10	07/14/16 16:13	7/7/16	
2-Chloronaphthalene	94 U	94	10	10	07/14/16 16:13	7/7/16	
2-Chlorophenol	12 J	94	10	10	07/14/16 16:13	7/7/16	
2-Methylnaphthalene	94 U	94	10	10	07/14/16 16:13	7/7/16	
2-Methylphenol	94 U	94	10	10	07/14/16 16:13	7/7/16	
2-Nitroaniline	470 U	470	91	10	07/14/16 16:13	7/7/16	
2-Nitrophenol	94 U	94	14	10	07/14/16 16:13	7/7/16	
3,3'-Dichlorobenzidine	94 U	94	45	10	07/14/16 16:13	7/7/16	
3- and 4-Methylphenol Coelution	94 U	94	20	10	07/14/16 16:13	7/7/16	
3-Nitroaniline	470 U	470	77	10	07/14/16 16:13	7/7/16	
4,6-Dinitro-2-methylphenol	470 U	470	110	10	07/14/16 16:13	7/7/16	
4-Bromophenyl Phenyl Ether	94 U	94	22	10	07/14/16 16:13	7/7/16	
4-Chloro-3-methylphenol	94 U	94	12	10	07/14/16 16:13	7/7/16	
4-Chloroaniline	94 U	94	15	10	07/14/16 16:13	7/7/16	
4-Chlorophenyl Phenyl Ether	94 U	94	12	10	07/14/16 16:13	7/7/16	
4-Nitroaniline	470 U	470	78	10	07/14/16 16:13	7/7/16	
4-Nitrophenol	470 U	470	59	10	07/14/16 16:13	7/7/16	
Acenaphthene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Acenaphthylene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Anthracene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Benz(a)anthracene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Benzo(a)pyrene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Benzo(b)fluoranthene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Benzo(g,h,i)perylene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Benzo(k)fluoranthene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Benzoic Acid	1100	470	79	10	07/14/16 16:13	7/7/16	
Benzyl Alcohol	79 J	94	13	10	07/14/16 16:13	7/7/16	
2,2'-Oxybis(1-chloropropane)	94 U	94	10	10	07/14/16 16:13	7/7/16	
Bis(2-chloroethoxy)methane	94 U	94	22	10	07/14/16 16:13	7/7/16	
Bis(2-chloroethyl) Ether	94 U	94	13	10	07/14/16 16:13	7/7/16	
Bis(2-ethylhexyl) Phthalate	94 U	94	12	10	07/14/16 16:13	7/7/16	
Butyl Benzyl Phthalate	94 U	94	24	10	07/14/16 16:13	7/7/16	
Chrysene	94 U	94	10	10	07/14/16 16:13	7/7/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	94 U	94	10	10	07/14/16 16:13	7/7/16	
Di-n-octyl Phthalate	94 U	94	12	10	07/14/16 16:13	7/7/16	
Dibenz(a,h)anthracene	94 U	94	13	10	07/14/16 16:13	7/7/16	
Dibenzofuran	94 U	94	10	10	07/14/16 16:13	7/7/16	
Diethyl Phthalate	94 U	94	10	10	07/14/16 16:13	7/7/16	
Dimethyl Phthalate	94 U	94	10	10	07/14/16 16:13	7/7/16	
Fluoranthene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Fluorene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Hexachlorobenzene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Hexachlorobutadiene	94 U	94	13	10	07/14/16 16:13	7/7/16	
Hexachlorocyclopentadiene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Hexachloroethane	94 U	94	12	10	07/14/16 16:13	7/7/16	
Indeno(1,2,3-cd)pyrene	94 U	94	12	10	07/14/16 16:13	7/7/16	
Isophorone	94 U	94	10	10	07/14/16 16:13	7/7/16	
N-Nitrosodi-n-propylamine	94 U	94	13	10	07/14/16 16:13	7/7/16	
N-Nitrosodiphenylamine	94 U	94	10	10	07/14/16 16:13	7/7/16	
Naphthalene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Nitrobenzene	94 U	94	16	10	07/14/16 16:13	7/7/16	
Pentachlorophenol (PCP)	470 U	470	69	10	07/14/16 16:13	7/7/16	
Phenanthrene	94 U	94	10	10	07/14/16 16:13	7/7/16	
Phenol	11 J	94	10	10	07/14/16 16:13	7/7/16	
Pyrene	94 U	94	10	10	07/14/16 16:13	7/7/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	16 *	35 - 141	07/14/16 16:13	*
2-Fluorobiphenyl	18 *	31 - 118	07/14/16 16:13	*
2-Fluorophenol	10	10 - 105	07/14/16 16:13	
Nitrobenzene-d5	20 *	31 - 110	07/14/16 16:13	*
Phenol-d6	7 *	10 - 107	07/14/16 16:13	*
p-Terphenyl-d14	17 *	30 - 133	07/14/16 16:13	*

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-95-0	Benzoic acid, 4-benzoyl-	10.40	63	JN
	unknown	10.43	45	J
	unknown	3.04	44	J
	unknown	3.88	69	J
	unknown	4.31	45	J
000095-49-8	Benzene, 1-chloro-2-methyl-	4.36	1900	JN
000106-43-4	Benzene, 1-chloro-4-methyl-	4.42	1000	JN
032768-54-0	Benzene, 1,2-dichloro-3-methyl-	5.52	110	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000118-69-4	Benzene, 1,3-dichloro-2-methyl-	5.54	98	JN
000095-75-0	Benzene, 1,2-dichloro-4-methyl-	5.71	100	JN
	unknown	5.73	85	J
017849-38-6	Benzenemethanol, 2-chloro-	6.10	200	JN
000074-11-3	Benzoic acid, 4-chloro-	6.85	3000	JN
000095-77-2	Phenol, 3,4-dichloro-	7.22	43	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 14:10
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/12/16 19:03	7/7/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/12/16 19:03	7/7/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/12/16 19:03	7/7/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/12/16 19:03	7/7/16	
2,4-Dinitrophenol	47 U	47	20	1	07/12/16 19:03	7/7/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/12/16 19:03	7/7/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/12/16 19:03	7/7/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
2-Nitroaniline	47 U	47	9.1	1	07/12/16 19:03	7/7/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/12/16 19:03	7/7/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/12/16 19:03	7/7/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/12/16 19:03	7/7/16	
3-Nitroaniline	47 U	47	7.7	1	07/12/16 19:03	7/7/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/12/16 19:03	7/7/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/12/16 19:03	7/7/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/12/16 19:03	7/7/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/12/16 19:03	7/7/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/12/16 19:03	7/7/16	
4-Nitroaniline	47 U	47	7.8	1	07/12/16 19:03	7/7/16	
4-Nitrophenol	47 U	47	5.9	1	07/12/16 19:03	7/7/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Anthracene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Benzoic Acid	47 U	47	7.9	1	07/12/16 19:03	7/7/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/12/16 19:03	7/7/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/12/16 19:03	7/7/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/12/16 19:03	7/7/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/12/16 19:03	7/7/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/12/16 19:03	7/7/16	
Chrysene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 14:10
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/12/16 19:03	7/7/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/12/16 19:03	7/7/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Fluorene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/12/16 19:03	7/7/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/12/16 19:03	7/7/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/12/16 19:03	7/7/16	
Isophorone	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/12/16 19:03	7/7/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Naphthalene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/12/16 19:03	7/7/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/12/16 19:03	7/7/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Phenol	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	
Pyrene	9.4 U	9.4	1.0	1	07/12/16 19:03	7/7/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	35 - 141	07/12/16 19:03	
2-Fluorobiphenyl	54	31 - 118	07/12/16 19:03	
2-Fluorophenol	28	10 - 105	07/12/16 19:03	
Nitrobenzene-d5	51	31 - 110	07/12/16 19:03	
Phenol-d6	22	10 - 107	07/12/16 19:03	
p-Terphenyl-d14	72	30 - 133	07/12/16 19:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.21	15	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.29	51	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/13/16 20:29	7/11/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/13/16 20:29	7/11/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/13/16 20:29	7/11/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/13/16 20:29	7/11/16	
2,4-Dinitrophenol	47 U	47	20	1	07/13/16 20:29	7/11/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/13/16 20:29	7/11/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/13/16 20:29	7/11/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
2-Nitroaniline	47 U	47	9.1	1	07/13/16 20:29	7/11/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/13/16 20:29	7/11/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/13/16 20:29	7/11/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/13/16 20:29	7/11/16	
3-Nitroaniline	47 U	47	7.7	1	07/13/16 20:29	7/11/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/13/16 20:29	7/11/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/13/16 20:29	7/11/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/13/16 20:29	7/11/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/13/16 20:29	7/11/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/13/16 20:29	7/11/16	
4-Nitroaniline	47 U	47	7.8	1	07/13/16 20:29	7/11/16	
4-Nitrophenol	47 U	47	5.9	1	07/13/16 20:29	7/11/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Anthracene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Benzoic Acid	47 U	47	7.9	1	07/13/16 20:29	7/11/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/13/16 20:29	7/11/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/13/16 20:29	7/11/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/13/16 20:29	7/11/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/13/16 20:29	7/11/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/13/16 20:29	7/11/16	
Chrysene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/13/16 20:29	7/11/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/13/16 20:29	7/11/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Fluorene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/13/16 20:29	7/11/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/13/16 20:29	7/11/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/13/16 20:29	7/11/16	
Isophorone	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/13/16 20:29	7/11/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Naphthalene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/13/16 20:29	7/11/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/13/16 20:29	7/11/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Phenol	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	
Pyrene	9.4 U	9.4	1.0	1	07/13/16 20:29	7/11/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	99	35 - 141	07/13/16 20:29	
2-Fluorobiphenyl	74	31 - 118	07/13/16 20:29	
2-Fluorophenol	39	10 - 105	07/13/16 20:29	
Nitrobenzene-d5	70	31 - 110	07/13/16 20:29	
Phenol-d6	30	10 - 107	07/13/16 20:29	
p-Terphenyl-d14	82	30 - 133	07/13/16 20:29	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.20	23	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.28	83	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 12:10
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/13/16 20:57	7/11/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/13/16 20:57	7/11/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/13/16 20:57	7/11/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/13/16 20:57	7/11/16	
2,4-Dinitrophenol	47 U	47	20	1	07/13/16 20:57	7/11/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/13/16 20:57	7/11/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/13/16 20:57	7/11/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
2-Nitroaniline	47 U	47	9.1	1	07/13/16 20:57	7/11/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/13/16 20:57	7/11/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/13/16 20:57	7/11/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/13/16 20:57	7/11/16	
3-Nitroaniline	47 U	47	7.7	1	07/13/16 20:57	7/11/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/13/16 20:57	7/11/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/13/16 20:57	7/11/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/13/16 20:57	7/11/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/13/16 20:57	7/11/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/13/16 20:57	7/11/16	
4-Nitroaniline	47 U	47	7.8	1	07/13/16 20:57	7/11/16	
4-Nitrophenol	47 U	47	5.9	1	07/13/16 20:57	7/11/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Anthracene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Benzoic Acid	47 U	47	7.9	1	07/13/16 20:57	7/11/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/13/16 20:57	7/11/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/13/16 20:57	7/11/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/13/16 20:57	7/11/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/13/16 20:57	7/11/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/13/16 20:57	7/11/16	
Chrysene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 12:10
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/13/16 20:57	7/11/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/13/16 20:57	7/11/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Fluorene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/13/16 20:57	7/11/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/13/16 20:57	7/11/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/13/16 20:57	7/11/16	
Isophorone	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/13/16 20:57	7/11/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Naphthalene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/13/16 20:57	7/11/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/13/16 20:57	7/11/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Phenol	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	
Pyrene	9.4 U	9.4	1.0	1	07/13/16 20:57	7/11/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	07/13/16 20:57	
2-Fluorobiphenyl	71	31 - 118	07/13/16 20:57	
2-Fluorophenol	39	10 - 105	07/13/16 20:57	
Nitrobenzene-d5	70	31 - 110	07/13/16 20:57	
Phenol-d6	29	10 - 107	07/13/16 20:57	
p-Terphenyl-d14	76	30 - 133	07/13/16 20:57	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.20	19	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.28	73	JN

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 10:25
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/13/16 21:25	7/11/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/13/16 21:25	7/11/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/13/16 21:25	7/11/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/13/16 21:25	7/11/16	
2,4-Dinitrophenol	47 U	47	20	1	07/13/16 21:25	7/11/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/13/16 21:25	7/11/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/13/16 21:25	7/11/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
2-Nitroaniline	47 U	47	9.1	1	07/13/16 21:25	7/11/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/13/16 21:25	7/11/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/13/16 21:25	7/11/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/13/16 21:25	7/11/16	
3-Nitroaniline	47 U	47	7.7	1	07/13/16 21:25	7/11/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/13/16 21:25	7/11/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/13/16 21:25	7/11/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/13/16 21:25	7/11/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/13/16 21:25	7/11/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/13/16 21:25	7/11/16	
4-Nitroaniline	47 U	47	7.8	1	07/13/16 21:25	7/11/16	
4-Nitrophenol	47 U	47	5.9	1	07/13/16 21:25	7/11/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Anthracene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Benzoic Acid	47 U	47	7.9	1	07/13/16 21:25	7/11/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/13/16 21:25	7/11/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/13/16 21:25	7/11/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/13/16 21:25	7/11/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/13/16 21:25	7/11/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/13/16 21:25	7/11/16	
Chrysene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	

ALS Group USA, Corp.
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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 10:25
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/13/16 21:25	7/11/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/13/16 21:25	7/11/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Fluorene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/13/16 21:25	7/11/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/13/16 21:25	7/11/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/13/16 21:25	7/11/16	
Isophorone	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/13/16 21:25	7/11/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Naphthalene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/13/16 21:25	7/11/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/13/16 21:25	7/11/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Phenol	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	
Pyrene	9.4 U	9.4	1.0	1	07/13/16 21:25	7/11/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	96	35 - 141	07/13/16 21:25	
2-Fluorobiphenyl	73	31 - 118	07/13/16 21:25	
2-Fluorophenol	40	10 - 105	07/13/16 21:25	
Nitrobenzene-d5	72	31 - 110	07/13/16 21:25	
Phenol-d6	30	10 - 107	07/13/16 21:25	
p-Terphenyl-d14	76	30 - 133	07/13/16 21:25	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-82-7	Cyclohexane	2.20	19	JN
000994-05-8	Butane, 2-methoxy-2-methyl-	2.28	73	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
1,2-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
1,3-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
1,4-Dichlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
2,4,5-Trichlorophenol	9.4 U	9.4	1.8	1	07/13/16 21:53	7/11/16	
2,4,6-Trichlorophenol	9.4 U	9.4	1.4	1	07/13/16 21:53	7/11/16	
2,4-Dichlorophenol	9.4 U	9.4	1.3	1	07/13/16 21:53	7/11/16	
2,4-Dimethylphenol	9.4 U	9.4	1.5	1	07/13/16 21:53	7/11/16	
2,4-Dinitrophenol	47 U	47	20	1	07/13/16 21:53	7/11/16	
2,4-Dinitrotoluene	9.4 U	9.4	1.6	1	07/13/16 21:53	7/11/16	
2,6-Dinitrotoluene	9.4 U	9.4	1.8	1	07/13/16 21:53	7/11/16	
2-Chloronaphthalene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
2-Chlorophenol	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
2-Methylnaphthalene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
2-Methylphenol	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
2-Nitroaniline	47 U	47	9.1	1	07/13/16 21:53	7/11/16	
2-Nitrophenol	9.4 U	9.4	1.4	1	07/13/16 21:53	7/11/16	
3,3'-Dichlorobenzidine	9.4 U	9.4	4.5	1	07/13/16 21:53	7/11/16	
3- and 4-Methylphenol Coelution	9.4 U	9.4	2.0	1	07/13/16 21:53	7/11/16	
3-Nitroaniline	47 U	47	7.7	1	07/13/16 21:53	7/11/16	
4,6-Dinitro-2-methylphenol	47 U	47	11	1	07/13/16 21:53	7/11/16	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	2.2	1	07/13/16 21:53	7/11/16	
4-Chloro-3-methylphenol	9.4 U	9.4	1.2	1	07/13/16 21:53	7/11/16	
4-Chloroaniline	9.4 U	9.4	1.5	1	07/13/16 21:53	7/11/16	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1.2	1	07/13/16 21:53	7/11/16	
4-Nitroaniline	47 U	47	7.8	1	07/13/16 21:53	7/11/16	
4-Nitrophenol	47 U	47	5.9	1	07/13/16 21:53	7/11/16	
Acenaphthene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Acenaphthylene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Anthracene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Benz(a)anthracene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Benzo(a)pyrene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Benzo(b)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Benzo(g,h,i)perylene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Benzo(k)fluoranthene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Benzoic Acid	47 U	47	7.9	1	07/13/16 21:53	7/11/16	
Benzyl Alcohol	9.4 U	9.4	1.3	1	07/13/16 21:53	7/11/16	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Bis(2-chloroethoxy)methane	9.4 U	9.4	2.2	1	07/13/16 21:53	7/11/16	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1.3	1	07/13/16 21:53	7/11/16	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1.2	1	07/13/16 21:53	7/11/16	
Butyl Benzyl Phthalate	9.4 U	9.4	2.4	1	07/13/16 21:53	7/11/16	
Chrysene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Di-n-octyl Phthalate	9.4 U	9.4	1.2	1	07/13/16 21:53	7/11/16	
Dibenz(a,h)anthracene	9.4 U	9.4	1.3	1	07/13/16 21:53	7/11/16	
Dibenzofuran	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Diethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Dimethyl Phthalate	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Fluoranthene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Fluorene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Hexachlorobenzene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Hexachlorobutadiene	9.4 U	9.4	1.3	1	07/13/16 21:53	7/11/16	
Hexachlorocyclopentadiene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Hexachloroethane	9.4 U	9.4	1.2	1	07/13/16 21:53	7/11/16	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1.2	1	07/13/16 21:53	7/11/16	
Isophorone	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1.3	1	07/13/16 21:53	7/11/16	
N-Nitrosodiphenylamine	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Naphthalene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Nitrobenzene	9.4 U	9.4	1.6	1	07/13/16 21:53	7/11/16	
Pentachlorophenol (PCP)	47 U	47	6.9	1	07/13/16 21:53	7/11/16	
Phenanthrene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Phenol	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	
Pyrene	9.4 U	9.4	1.0	1	07/13/16 21:53	7/11/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	94	35 - 141	07/13/16 21:53	
2-Fluorobiphenyl	69	31 - 118	07/13/16 21:53	
2-Fluorophenol	36	10 - 105	07/13/16 21:53	
Nitrobenzene-d5	67	31 - 110	07/13/16 21:53	
Phenol-d6	29	10 - 107	07/13/16 21:53	
p-Terphenyl-d14	80	30 - 133	07/13/16 21:53	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.20	17	J
000994-05-8	Butane, 2-methoxy-2-methyl-	2.28	64	JN

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 12:30
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
4,4'-DDE	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
4,4'-DDT	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Aldrin	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Dieldrin	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Endosulfan I	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Endosulfan II	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Endrin	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Endrin Ketone	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Heptachlor	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Methoxychlor	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
Toxaphene	0.47 U	0.47	1	07/20/16 00:26	7/8/16	
alpha-BHC	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
alpha-Chlordane	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
beta-BHC	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
delta-BHC	0.048 U	0.048	1	07/20/16 00:26	7/8/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/20/16 00:26	7/8/16	
gamma-Chlordane	0.047 U	0.047	1	07/20/16 00:26	7/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	36	10 - 164	07/20/16 00:26	
Tetrachloro-m-xylene	75	10 - 147	07/20/16 00:26	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
4,4'-DDE	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
4,4'-DDT	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Aldrin	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Dieldrin	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Endosulfan I	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Endosulfan II	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Endosulfan Sulfate	1.3 P	0.94	20	07/26/16 10:16	7/8/16	
Endrin	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Endrin Ketone	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Heptachlor	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Heptachlor Epoxide	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Methoxychlor	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
Toxaphene	9.4 U	9.4	20	07/26/16 10:16	7/8/16	
alpha-BHC	25	0.94	20	07/26/16 10:16	7/8/16	
alpha-Chlordane	0.94 U	0.94	20	07/26/16 10:16	7/8/16	
beta-BHC	6.7	0.94	20	07/26/16 10:16	7/8/16	
delta-BHC	11	0.96	20	07/26/16 10:16	7/8/16	
gamma-BHC (Lindane)	4.9	0.94	20	07/26/16 10:16	7/8/16	
gamma-Chlordane	0.94 U	0.94	20	07/26/16 10:16	7/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 164	07/26/16 10:16	D
Tetrachloro-m-xylene	0 *	10 - 147	07/26/16 10:16	D

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 14:10
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
4,4'-DDE	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
4,4'-DDT	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Aldrin	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Dieldrin	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Endosulfan I	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Endosulfan II	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Endrin	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Endrin Ketone	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Heptachlor	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Methoxychlor	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
Toxaphene	0.47 U	0.47	1	07/20/16 01:26	7/8/16	
alpha-BHC	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
alpha-Chlordane	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
beta-BHC	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
delta-BHC	0.048 U	0.048	1	07/20/16 01:26	7/8/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/20/16 01:26	7/8/16	
gamma-Chlordane	0.047 U	0.047	1	07/20/16 01:26	7/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	77	10 - 164	07/20/16 01:26	
Tetrachloro-m-xylene	56	10 - 147	07/20/16 01:26	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
4,4'-DDE	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
4,4'-DDT	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Aldrin	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Dieldrin	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Endosulfan I	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Endosulfan II	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Endrin	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Endrin Ketone	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Heptachlor	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Methoxychlor	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
Toxaphene	0.47 U	0.47	1	07/26/16 10:45	7/12/16	
alpha-BHC	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
alpha-Chlordane	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
beta-BHC	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
delta-BHC	0.065	0.048	1	07/26/16 10:45	7/12/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/26/16 10:45	7/12/16	
gamma-Chlordane	0.047 U	0.047	1	07/26/16 10:45	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	90	10 - 164	07/26/16 10:45	
Tetrachloro-m-xylene	76	10 - 147	07/26/16 10:45	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 12:10
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
4,4'-DDE	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
4,4'-DDT	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Aldrin	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Dieldrin	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Endosulfan I	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Endosulfan II	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Endrin	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Endrin Ketone	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Heptachlor	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Methoxychlor	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
Toxaphene	0.47 U	0.47	1	07/26/16 11:15	7/12/16	
alpha-BHC	0.13	0.047	1	07/26/16 11:15	7/12/16	
alpha-Chlordane	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
beta-BHC	0.047 U	0.047	1	07/26/16 11:15	7/12/16	
delta-BHC	0.15	0.048	1	07/26/16 11:15	7/12/16	
gamma-BHC (Lindane)	0.18	0.047	1	07/26/16 11:15	7/12/16	
gamma-Chlordane	0.047 U	0.047	1	07/26/16 11:15	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	100	10 - 164	07/26/16 11:15	
Tetrachloro-m-xylene	78	10 - 147	07/26/16 11:15	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 10:25
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
4,4'-DDE	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
4,4'-DDT	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Aldrin	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Dieldrin	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Endosulfan I	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Endosulfan II	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Endrin	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Endrin Ketone	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Heptachlor	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Methoxychlor	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
Toxaphene	0.47 U	0.47	1	07/20/16 16:41	7/12/16	
alpha-BHC	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
alpha-Chlordane	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
beta-BHC	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
delta-BHC	0.048 U	0.048	1	07/20/16 16:41	7/12/16	
gamma-BHC (Lindane)	0.047 U	0.047	1	07/20/16 16:41	7/12/16	
gamma-Chlordane	0.047 U	0.047	1	07/20/16 16:41	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	28	10 - 164	07/20/16 16:41	
Tetrachloro-m-xylene	68	10 - 147	07/20/16 16:41	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
4,4'-DDE	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
4,4'-DDT	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Aldrin	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Dieldrin	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Endosulfan I	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Endosulfan II	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Endosulfan Sulfate	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Endrin	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Endrin Ketone	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Heptachlor	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Heptachlor Epoxide	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Methoxychlor	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
Toxaphene	0.47 U	0.47	1	07/26/16 11:45	7/12/16	
alpha-BHC	0.082	0.047	1	07/26/16 11:45	7/12/16	
alpha-Chlordane	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
beta-BHC	0.047 U	0.047	1	07/26/16 11:45	7/12/16	
delta-BHC	0.21	0.048	1	07/26/16 11:45	7/12/16	
gamma-BHC (Lindane)	0.11	0.047	1	07/26/16 11:45	7/12/16	
gamma-Chlordane	0.047 U	0.047	1	07/26/16 11:45	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	100	10 - 164	07/26/16 11:45	
Tetrachloro-m-xylene	76	10 - 147	07/26/16 11:45	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 12:30
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-029
Lab Code: R1607051-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/14/16 20:23	7/8/16	
Aroclor 1221	1.9 U	1.9	1	07/14/16 20:23	7/8/16	
Aroclor 1232	0.94 U	0.94	1	07/14/16 20:23	7/8/16	
Aroclor 1242	0.94 U	0.94	1	07/14/16 20:23	7/8/16	
Aroclor 1248	0.94 U	0.94	1	07/14/16 20:23	7/8/16	
Aroclor 1254	0.94 U	0.94	1	07/14/16 20:23	7/8/16	
Aroclor 1260	0.94 U	0.94	1	07/14/16 20:23	7/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	37	10 - 149	07/14/16 20:23	
Tetrachloro-m-xylene	82	15 - 131	07/14/16 20:23	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 13:25
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-030
Lab Code: R1607051-003

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/14/16 20:49	7/8/16	
Aroclor 1221	1.9 U	1.9	1	07/14/16 20:49	7/8/16	
Aroclor 1232	0.94 U	0.94	1	07/14/16 20:49	7/8/16	
Aroclor 1242	0.94 U	0.94	1	07/14/16 20:49	7/8/16	
Aroclor 1248	0.94 U	0.94	1	07/14/16 20:49	7/8/16	
Aroclor 1254	0.94 U	0.94	1	07/14/16 20:49	7/8/16	
Aroclor 1260	0.94 U	0.94	1	07/14/16 20:49	7/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 149	07/14/16 20:49	
Tetrachloro-m-xylene	63	15 - 131	07/14/16 20:49	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/05/16 14:10
Date Received: 07/06/16 15:35

Sample Name: WG-9954-070516-SG-031
Lab Code: R1607051-004

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/14/16 21:41	7/8/16	
Aroclor 1221	1.9 U	1.9	1	07/14/16 21:41	7/8/16	
Aroclor 1232	0.94 U	0.94	1	07/14/16 21:41	7/8/16	
Aroclor 1242	0.94 U	0.94	1	07/14/16 21:41	7/8/16	
Aroclor 1248	0.94 U	0.94	1	07/14/16 21:41	7/8/16	
Aroclor 1254	0.94 U	0.94	1	07/14/16 21:41	7/8/16	
Aroclor 1260	0.94 U	0.94	1	07/14/16 21:41	7/8/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 149	07/14/16 21:41	
Tetrachloro-m-xylene	77	15 - 131	07/14/16 21:41	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-033
Lab Code: R1607051-005

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/15/16 12:37	7/12/16	
Aroclor 1221	1.9 U	1.9	1	07/15/16 12:37	7/12/16	
Aroclor 1232	0.94 U	0.94	1	07/15/16 12:37	7/12/16	
Aroclor 1242	0.94 U	0.94	1	07/15/16 12:37	7/12/16	
Aroclor 1248	0.94 U	0.94	1	07/15/16 12:37	7/12/16	
Aroclor 1254	0.94 U	0.94	1	07/15/16 12:37	7/12/16	
Aroclor 1260	0.94 U	0.94	1	07/15/16 12:37	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	86	10 - 149	07/15/16 12:37	
Tetrachloro-m-xylene	83	15 - 131	07/15/16 12:37	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 12:10
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-035
Lab Code: R1607051-006

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/15/16 13:03	7/12/16	
Aroclor 1221	1.9 U	1.9	1	07/15/16 13:03	7/12/16	
Aroclor 1232	0.94 U	0.94	1	07/15/16 13:03	7/12/16	
Aroclor 1242	0.94 U	0.94	1	07/15/16 13:03	7/12/16	
Aroclor 1248	0.94 U	0.94	1	07/15/16 13:03	7/12/16	
Aroclor 1254	0.94 U	0.94	1	07/15/16 13:03	7/12/16	
Aroclor 1260	0.94 U	0.94	1	07/15/16 13:03	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	93	10 - 149	07/15/16 13:03	
Tetrachloro-m-xylene	86	15 - 131	07/15/16 13:03	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 10:25
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-032
Lab Code: R1607051-007

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/15/16 13:29	7/12/16	
Aroclor 1221	1.9 U	1.9	1	07/15/16 13:29	7/12/16	
Aroclor 1232	0.94 U	0.94	1	07/15/16 13:29	7/12/16	
Aroclor 1242	0.94 U	0.94	1	07/15/16 13:29	7/12/16	
Aroclor 1248	0.94 U	0.94	1	07/15/16 13:29	7/12/16	
Aroclor 1254	0.94 U	0.94	1	07/15/16 13:29	7/12/16	
Aroclor 1260	0.94 U	0.94	1	07/15/16 13:29	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 149	07/15/16 13:29	
Tetrachloro-m-xylene	83	15 - 131	07/15/16 13:29	

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Analytical Report

Client: GHD Services Inc. (Formerly Conestoga-Rovers & Associates,
Project: Love Canal:292-402-D02-3100/292-402-999-3100
Sample Matrix: Water

Service Request: R1607051
Date Collected: 07/07/16 11:30
Date Received: 07/08/16 13:20

Sample Name: WG-9954-070716-SG-034
Lab Code: R1607051-008

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.94 U	0.94	1	07/15/16 13:55	7/12/16	
Aroclor 1221	1.9 U	1.9	1	07/15/16 13:55	7/12/16	
Aroclor 1232	0.94 U	0.94	1	07/15/16 13:55	7/12/16	
Aroclor 1242	0.94 U	0.94	1	07/15/16 13:55	7/12/16	
Aroclor 1248	0.94 U	0.94	1	07/15/16 13:55	7/12/16	
Aroclor 1254	0.94 U	0.94	1	07/15/16 13:55	7/12/16	
Aroclor 1260	0.94 U	0.94	1	07/15/16 13:55	7/12/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	91	10 - 149	07/15/16 13:55	
Tetrachloro-m-xylene	82	15 - 131	07/15/16 13:55	