Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Your C.O.C. #: 657867-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/04/25
Report #: R5091583
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B887457
Received: 2018/04/18, 12:38

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	6	N/A	2018/04/23	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	1	N/A	2018/04/25	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2018/04/20	2018/04/20	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	4	2018/04/20	2018/04/21	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	1	2018/04/24	2018/04/24	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	7	N/A	2018/04/25		SM 22 2310
Alkalinity	2	N/A	2018/04/19	CAM SOP-00448	SM 23 2320 B m
Alkalinity	3	N/A	2018/04/20	CAM SOP-00448	SM 23 2320 B m
Alkalinity	1	N/A	2018/04/21	CAM SOP-00448	SM 23 2320 B m
Alkalinity	1	N/A	2018/04/22	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	4	N/A	2018/04/20	CAM SOP-00102	APHA 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	3	N/A	2018/04/23	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	7	N/A	2018/04/23		EPA 8260C m
Chloride by Automated Colourimetry	4	N/A	2018/04/20	CAM SOP-00463	EPA 325.2 m
Chloride by Automated Colourimetry	1	N/A	2018/04/22	CAM SOP-00463	EPA 325.2 m
Chloride by Automated Colourimetry	1	N/A	2018/04/23	CAM SOP-00463	EPA 325.2 m
Chloride by Automated Colourimetry	1	N/A	2018/04/24	CAM SOP-00463	EPA 325.2 m
Conductivity	2	N/A	2018/04/19	CAM SOP-00414	SM 23 2510 m
Conductivity	3	N/A	2018/04/20	CAM SOP-00414	SM 23 2510 m
Conductivity	1	N/A	2018/04/21	CAM SOP-00414	SM 23 2510 m
Conductivity	1	N/A	2018/04/22	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	7	N/A	2018/04/23	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	7	N/A	2018/04/20	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (2)	7	N/A	2018/04/19	CAM SOP-00446	SM 23 5310 B m
Petroleum Hydrocarbons F2-F4 in Water (3)	7	2018/04/20	2018/04/21	CAM SOP-00316	CCME PHC-CWS m
Fluoride	2	2018/04/18	2018/04/19	CAM SOP-00449	SM 23 4500-F C m
Fluoride	2	2018/04/19	2018/04/20	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2018/04/20	2018/04/21	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2018/04/20	2018/04/22	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2018/04/24	2018/04/24	CAM SOP-00449	SM 23 4500-F C m

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Hardness (calculated as CaCO3)	7	N/A	2018/04/23	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	4	2018/04/20	2018/04/20	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	3	2018/04/20	2018/04/23	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (4)	4	N/A	2018/04/20	CAM SOP-00447	EPA 6020B m
Metals Analysis by ICPMS (as received) (4)	3	N/A	2018/04/23	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	6	N/A	2018/04/23		
Ion Balance (% Difference)	1	N/A	2018/04/24		
Anion and Cation Sum	7	N/A	2018/04/23		
Total Coliforms/ E. coli, CFU/100mL	7	N/A	2018/04/18	CAM SOP-00551	MOE E3407
Total Ammonia-N	6	N/A	2018/04/23	CAM SOP-00441	EPA GS I-2522-90 m
Total Ammonia-N	1	N/A	2018/04/25	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (5)	4	N/A	2018/04/20	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (5)	3	N/A	2018/04/21	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	3	2018/04/19	2018/04/20	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	4	2018/04/19	2018/04/21	CAM SOP-00309	EPA 8082A m
pH	2	N/A	2018/04/19	CAM SOP-00413	SM 4500H+ B m
pH	3	N/A	2018/04/20	CAM SOP-00413	SM 4500H+ B m
pH	1	N/A	2018/04/21	CAM SOP-00413	SM 4500H+ B m
pH	1	N/A	2018/04/22	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	4	N/A	2018/04/19	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2018/04/20	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2018/04/22	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2018/04/24	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	6	N/A	2018/04/23		
Sat. pH and Langelier Index (@ 20C)	1	N/A	2018/04/24		
Sat. pH and Langelier Index (@ 4C)	6	N/A	2018/04/23		
Sat. pH and Langelier Index (@ 4C)	1	N/A	2018/04/24		
Sulphate by Automated Colourimetry	4	N/A	2018/04/19	CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	1	N/A	2018/04/20	CAM SOP-00464	EPA 375.4 m

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Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sulphate by Automated Colourimetry	1	N/A	2018/04/23	CAM SOP-00464	EPA 375.4 m
Sulphate by Automated Colourimetry	1	N/A	2018/04/24	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	6	N/A	2018/04/23		
Total Dissolved Solids (TDS calc)	1	N/A	2018/04/24		
Total Dissolved Solids	7	2018/04/23	2018/04/23	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (6)	7	N/A	2018/04/21	CAM SOP-00446	SM 23 5310B m
Total Suspended Solids	7	2018/04/23	2018/04/23	CAM SOP-00428	SM 23 2540D m
Turbidity	6	N/A	2018/04/19	CAM SOP-00417	SM 23 2130 B m
Turbidity	1	N/A	2018/04/20	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	7	N/A	2018/04/21	CAM SOP-00230	EPA 8260C m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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(1) This test was performed by Maxxam Bedford
(2) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(4) Metals analysis was performed on the sample 'as received'.
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Ronklin Gracian
Project Manager
25 Apr 2018 17:01:29

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME356			GME357		
Sampling Date		2018/04/17 10:35			2018/04/17 11:52		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	14.1	N/A	5489570	3.26	N/A	5489570
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	340	1.0	5489568	150	1.0	5489568
Calculated TDS	mg/L	780	1.0	5489573	180	1.0	5489573
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.8	1.0	5489568	2.0	1.0	5489568
Cation Sum	me/L	14.3	N/A	5489570	3.20	N/A	5489570
Hardness (CaCO3)	mg/L	390	1.0	5489802	120	1.0	5489802
Ion Balance (% Difference)	%	0.680	N/A	5489331	1.01	N/A	5489331
Langelier Index (@ 20C)	N/A	0.906		5489571	0.305		5489571
Langelier Index (@ 4C)	N/A	0.659		5489572	0.0550		5489572
Saturation pH (@ 20C)	N/A	6.84		5489571	7.86		5489571
Saturation pH (@ 4C)	N/A	7.09		5489572	8.11		5489572
Inorganics							
Total Ammonia-N	mg/L	0.050	0.050	5496235	0.24	0.050	5493616
Conductivity	umho/cm	1500	1.0	5491013	290	1.0	5494467
Dissolved Organic Carbon	mg/L	2.2	0.50	5491850	0.76	0.50	5491850
Orthophosphate (P)	mg/L	<0.010	0.010	5490919	0.013	0.010	5490919
pH	pH	7.75		5491012	8.16		5494464
Dissolved Sulphate (SO4)	mg/L	17	1.0	5490927	11	1.0	5490927
Alkalinity (Total as CaCO3)	mg/L	340	1.0	5491010	150	1.0	5494460
Dissolved Chloride (Cl)	mg/L	240	3.0	5490917	2.1	1.0	5490917
Nitrite (N)	mg/L	<0.010	0.010	5490869	<0.010	0.010	5490866
Nitrate (N)	mg/L	2.46	0.10	5490869	<0.10	0.10	5490866
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5492448	<0.0050	0.0050	5492448
. Antimony (Sb)	mg/L	<0.00050	0.00050	5492448	<0.00050	0.00050	5492448
. Arsenic (As)	mg/L	<0.0010	0.0010	5492448	<0.0010	0.0010	5492448
. Barium (Ba)	mg/L	0.066	0.0020	5492448	0.10	0.0020	5492448
. Beryllium (Be)	mg/L	<0.00050	0.00050	5492448	<0.00050	0.00050	5492448
. Boron (B)	mg/L	<0.010	0.010	5492448	0.042	0.010	5492448
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5492448	<0.00010	0.00010	5492448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Maxxam ID		GME356			GME357		
Sampling Date		2018/04/17 10:35			2018/04/17 11:52		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	140	0.20	5492448	22	0.20	5492448
. Chromium (Cr)	mg/L	<0.0050	0.0050	5492448	<0.0050	0.0050	5492448
. Cobalt (Co)	mg/L	<0.00050	0.00050	5492448	<0.00050	0.00050	5492448
. Copper (Cu)	mg/L	0.0034	0.0010	5492448	<0.0010	0.0010	5492448
. Iron (Fe)	mg/L	<0.10	0.10	5492448	0.40	0.10	5492448
. Lead (Pb)	mg/L	0.00080	0.00050	5492448	<0.00050	0.00050	5492448
. Magnesium (Mg)	mg/L	9.0	0.050	5492448	17	0.050	5492448
. Manganese (Mn)	mg/L	<0.0020	0.0020	5492448	0.0083	0.0020	5492448
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5492448	0.00077	0.00050	5492448
. Nickel (Ni)	mg/L	<0.0010	0.0010	5492448	<0.0010	0.0010	5492448
. Phosphorus (P)	mg/L	<0.10	0.10	5492448	<0.10	0.10	5492448
. Potassium (K)	mg/L	0.66	0.20	5492448	0.56	0.20	5492448
. Selenium (Se)	mg/L	<0.0020	0.0020	5492448	<0.0020	0.0020	5492448
. Silicon (Si)	mg/L	3.5	0.050	5492448	7.9	0.050	5492448
. Silver (Ag)	mg/L	<0.00010	0.00010	5492448	<0.00010	0.00010	5492448
. Sodium (Na)	mg/L	150	0.10	5492448	15	0.10	5492448
. Strontium (Sr)	mg/L	0.29	0.0010	5492448	0.37	0.0010	5492448
. Thallium (Tl)	mg/L	<0.000050	0.000050	5492448	<0.000050	0.000050	5492448
. Titanium (Ti)	mg/L	<0.0050	0.0050	5492448	<0.0050	0.0050	5492448
. Uranium (U)	mg/L	0.00037	0.00010	5492448	<0.00010	0.00010	5492448
. Vanadium (V)	mg/L	<0.00050	0.00050	5492448	<0.00050	0.00050	5492448
. Zinc (Zn)	mg/L	<0.0050	0.0050	5492448	<0.0050	0.0050	5492448
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5492448	<0.0010	0.0010	5492448

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Maxxam ID		GME357			GME358		
Sampling Date		2018/04/17 11:52			2018/04/17 12:53		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK3**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L				4.54	N/A	5489570
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				210	1.0	5489568
Calculated TDS	mg/L				240	1.0	5489573
Carb. Alkalinity (calc. as CaCO3)	mg/L				2.1	1.0	5489568
Cation Sum	me/L				4.41	N/A	5489570
Hardness (CaCO3)	mg/L				210	1.0	5489802
Ion Balance (% Difference)	%				1.41	N/A	5489331
Langelier Index (@ 20C)	N/A				0.710		5489571
Langelier Index (@ 4C)	N/A				0.460		5489572
Saturation pH (@ 20C)	N/A				7.33		5489571
Saturation pH (@ 4C)	N/A				7.58		5489572
Inorganics							
Total Ammonia-N	mg/L				0.12	0.050	5493616
Conductivity	umho/cm	290	1.0	5494467	420	1.0	5491013
Dissolved Organic Carbon	mg/L				1.4	0.50	5491850
Orthophosphate (P)	mg/L				<0.010	0.010	5490919
pH	pH	8.20		5494464	8.04		5491012
Dissolved Sulphate (SO4)	mg/L				16	1.0	5490927
Alkalinity (Total as CaCO3)	mg/L	150	1.0	5494460	210	1.0	5491010
Dissolved Chloride (Cl)	mg/L				2.2	1.0	5490917
Nitrite (N)	mg/L				<0.010	0.010	5490866
Nitrate (N)	mg/L				<0.10	0.10	5490866
Metals							
. Aluminum (Al)	mg/L				<0.0050	0.0050	5492448
. Antimony (Sb)	mg/L				<0.00050	0.00050	5492448
. Arsenic (As)	mg/L				<0.0010	0.0010	5492448
. Barium (Ba)	mg/L				0.14	0.0020	5492448
. Beryllium (Be)	mg/L				<0.00050	0.00050	5492448
. Boron (B)	mg/L				<0.010	0.010	5492448

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COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK3**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L				<0.00010	0.00010	5492448
. Calcium (Ca)	mg/L				57	0.20	5492448
. Chromium (Cr)	mg/L				<0.0050	0.0050	5492448
. Cobalt (Co)	mg/L				<0.00050	0.00050	5492448
. Copper (Cu)	mg/L				<0.0010	0.0010	5492448
. Iron (Fe)	mg/L				1.8	0.10	5492448
. Lead (Pb)	mg/L				<0.00050	0.00050	5492448
. Magnesium (Mg)	mg/L				16	0.050	5492448
. Manganese (Mn)	mg/L				0.038	0.0020	5492448
. Molybdenum (Mo)	mg/L				0.00076	0.00050	5492448
. Nickel (Ni)	mg/L				<0.0010	0.0010	5492448
. Phosphorus (P)	mg/L				<0.10	0.10	5492448
. Potassium (K)	mg/L				0.93	0.20	5492448
. Selenium (Se)	mg/L				<0.0020	0.0020	5492448
. Silicon (Si)	mg/L				9.3	0.050	5492448
. Silver (Ag)	mg/L				<0.00010	0.00010	5492448
. Sodium (Na)	mg/L				4.4	0.10	5492448
. Strontium (Sr)	mg/L				0.23	0.0010	5492448
. Thallium (Tl)	mg/L				<0.000050	0.000050	5492448
. Titanium (Ti)	mg/L				<0.0050	0.0050	5492448
. Uranium (U)	mg/L				<0.00010	0.00010	5492448
. Vanadium (V)	mg/L				<0.00050	0.00050	5492448
. Zinc (Zn)	mg/L				0.0051	0.0050	5492448
. Zirconium (Zr)	mg/L				<0.0010	0.0010	5492448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME359		GME360		
Sampling Date		2018/04/17 14:00		2018/04/17 14:35		
COC Number		657867-01-01		657867-01-01		
	UNITS	**WG-160900764-20180417-JK4**	**QC Batch**	**WG-160900764-20180417-JK5**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	me/L	4.88	5489570	7.38	N/A	5489570
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210	5489568	320	1.0	5489568
Calculated TDS	mg/L	250	5489573	380	1.0	5489573
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.5	5489568	2.4	1.0	5489568
Cation Sum	me/L	4.71	5489570	6.96	N/A	5489570
Hardness (CaCO3)	mg/L	220	5489802	270	1.0	5489802
Ion Balance (% Difference)	%	1.72	5489331	2.98	N/A	5489331
Langelier Index (@ 20C)	N/A	0.935	5489571	0.959		5489571
Langelier Index (@ 4C)	N/A	0.686	5489572	0.710		5489572
Saturation pH (@ 20C)	N/A	7.17	5489571	6.94		5489571
Saturation pH (@ 4C)	N/A	7.41	5489572	7.19		5489572
Inorganics						
Total Ammonia-N	mg/L	<0.050	5493616	<0.050	0.050	5493616
Conductivity	umho/cm	460	5490956	670	1.0	5494467
Dissolved Organic Carbon	mg/L	1.4	5491850	1.3	0.50	5491837
Orthophosphate (P)	mg/L	<0.010	5490919	<0.010	0.010	5494207
pH	pH	8.10	5490960	7.90		5494464
Dissolved Sulphate (SO4)	mg/L	5.1	5490927	11	1.0	5494205
Alkalinity (Total as CaCO3)	mg/L	220	5490955	320	1.0	5494460
Dissolved Chloride (Cl)	mg/L	13	5490917	24	1.0	5494187
Nitrite (N)	mg/L	<0.010	5490866	<0.010	0.010	5494006
Nitrate (N)	mg/L	1.29	5490866	0.52	0.10	5494006
Metals						
. Aluminum (Al)	mg/L	0.0059	5492448	<0.0050	0.0050	5492448
. Antimony (Sb)	mg/L	<0.00050	5492448	<0.00050	0.00050	5492448
. Arsenic (As)	mg/L	<0.0010	5492448	<0.0010	0.0010	5492448
. Barium (Ba)	mg/L	0.022	5492448	0.022	0.0020	5492448
. Beryllium (Be)	mg/L	<0.00050	5492448	<0.00050	0.00050	5492448
. Boron (B)	mg/L	<0.010	5492448	<0.010	0.010	5492448
. Cadmium (Cd)	mg/L	<0.00010	5492448	<0.00010	0.00010	5492448

RDL = Reportable Detection Limit
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N/A = Not Applicable

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Maxxam Job #: B887457
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME359		GME360		
Sampling Date		2018/04/17 14:00		2018/04/17 14:35		
COC Number		657867-01-01		657867-01-01		
	UNITS	**WG-160900764-20180417-JK4**	**QC Batch**	**WG-160900764-20180417-JK5**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	81	5492448	97	0.20	5492448
. Chromium (Cr)	mg/L	<0.0050	5492448	<0.0050	0.0050	5492448
. Cobalt (Co)	mg/L	<0.00050	5492448	<0.00050	0.00050	5492448
. Copper (Cu)	mg/L	0.0054	5492448	0.016	0.0010	5492448
. Iron (Fe)	mg/L	<0.10	5492448	<0.10	0.10	5492448
. Lead (Pb)	mg/L	<0.00050	5492448	<0.00050	0.00050	5492448
. Magnesium (Mg)	mg/L	4.4	5492448	5.9	0.050	5492448
. Manganese (Mn)	mg/L	<0.0020	5492448	<0.0020	0.0020	5492448
. Molybdenum (Mo)	mg/L	<0.00050	5492448	<0.00050	0.00050	5492448
. Nickel (Ni)	mg/L	<0.0010	5492448	<0.0010	0.0010	5492448
. Phosphorus (P)	mg/L	<0.10	5492448	<0.10	0.10	5492448
. Potassium (K)	mg/L	0.63	5492448	0.28	0.20	5492448
. Selenium (Se)	mg/L	<0.0020	5492448	<0.0020	0.0020	5492448
. Silicon (Si)	mg/L	3.1	5492448	3.8	0.050	5492448
. Silver (Ag)	mg/L	<0.00010	5492448	<0.00010	0.00010	5492448
. Sodium (Na)	mg/L	6.3	5492448	38	0.10	5492448
. Strontium (Sr)	mg/L	0.15	5492448	0.18	0.0010	5492448
. Thallium (Tl)	mg/L	<0.000050	5492448	<0.000050	0.000050	5492448
. Titanium (Ti)	mg/L	<0.0050	5492448	<0.0050	0.0050	5492448
. Uranium (U)	mg/L	0.00017	5492448	0.00022	0.00010	5492448
. Vanadium (V)	mg/L	<0.00050	5492448	<0.00050	0.00050	5492448
. Zinc (Zn)	mg/L	0.0051	5492448	0.024	0.0050	5492448
. Zirconium (Zr)	mg/L	<0.0010	5492448	<0.0010	0.0010	5492448

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME361			GME361		
Sampling Date		2018/04/17 15:17			2018/04/17 15:17		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK6**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK6 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	11.6	N/A	5489570			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	330	1.0	5489568			
Calculated TDS	mg/L	640	1.0	5489573			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.5	1.0	5489568			
Cation Sum	me/L	11.9	N/A	5489570			
Hardness (CaCO3)	mg/L	450	1.0	5489802			
Ion Balance (% Difference)	%	1.17	N/A	5489331			
Langelier Index (@ 20C)	N/A	0.889		5489571			
Langelier Index (@ 4C)	N/A	0.642		5489572			
Saturation pH (@ 20C)	N/A	6.80		5489571			
Saturation pH (@ 4C)	N/A	7.05		5489572			
Inorganics							
Total Ammonia-N	mg/L	0.064	0.050	5493627	<0.050	0.050	5493627
Conductivity	umho/cm	1200	1.0	5492749	1200	1.0	5492749
Dissolved Organic Carbon	mg/L	1.4	0.50	5491850			
Orthophosphate (P)	mg/L	<0.010	0.010	5492820			
pH	pH	7.69		5492772	7.69		5492772
Dissolved Sulphate (SO4)	mg/L	34	1.0	5492819			
Alkalinity (Total as CaCO3)	mg/L	330	1.0	5492748	330	1.0	5492748
Dissolved Chloride (Cl)	mg/L	150	2.0	5492814			
Nitrite (N)	mg/L	0.010	0.010	5491950	<0.010	0.010	5491950
Nitrate (N)	mg/L	3.10	0.10	5491950	3.12	0.10	5491950
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5492448			
. Antimony (Sb)	mg/L	<0.00050	0.00050	5492448			
. Arsenic (As)	mg/L	<0.0010	0.0010	5492448			
. Barium (Ba)	mg/L	0.066	0.0020	5492448			
. Beryllium (Be)	mg/L	<0.00050	0.00050	5492448			
. Boron (B)	mg/L	0.012	0.010	5492448			

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME361			GME361		
Sampling Date		2018/04/17 15:17			2018/04/17 15:17		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK6**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK6 Lab-Dup**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5492448			
. Calcium (Ca)	mg/L	150	0.20	5492448			
. Chromium (Cr)	mg/L	<0.0050	0.0050	5492448			
. Cobalt (Co)	mg/L	<0.00050	0.00050	5492448			
. Copper (Cu)	mg/L	0.035	0.0010	5492448			
. Iron (Fe)	mg/L	<0.10	0.10	5492448			
. Lead (Pb)	mg/L	<0.00050	0.00050	5492448			
. Magnesium (Mg)	mg/L	18	0.050	5492448			
. Manganese (Mn)	mg/L	<0.0020	0.0020	5492448			
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5492448			
. Nickel (Ni)	mg/L	<0.0010	0.0010	5492448			
. Phosphorus (P)	mg/L	<0.10	0.10	5492448			
. Potassium (K)	mg/L	0.81	0.20	5492448			
. Selenium (Se)	mg/L	<0.0020	0.0020	5492448			
. Silicon (Si)	mg/L	5.8	0.050	5492448			
. Silver (Ag)	mg/L	<0.00010	0.00010	5492448			
. Sodium (Na)	mg/L	66	0.10	5492448			
. Strontium (Sr)	mg/L	0.32	0.0010	5492448			
. Thallium (Tl)	mg/L	<0.000050	0.000050	5492448			
. Titanium (Ti)	mg/L	<0.0050	0.0050	5492448			
. Uranium (U)	mg/L	0.0010	0.00010	5492448			
. Vanadium (V)	mg/L	<0.00050	0.00050	5492448			
. Zinc (Zn)	mg/L	0.038	0.0050	5492448			
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5492448			

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME362			GME362		
Sampling Date		2018/04/17 16:20			2018/04/17 16:20		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK7 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	7.59	N/A	5489570			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	310	1.0	5489568			
Calculated TDS	mg/L	410	1.0	5489573			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.6	1.0	5489568			
Cation Sum	me/L	7.54	N/A	5489570			
Hardness (CaCO3)	mg/L	320	1.0	5489802			
Ion Balance (% Difference)	%	0.340	N/A	5489331			
Langelier Index (@ 20C)	N/A	0.841		5489571			
Langelier Index (@ 4C)	N/A	0.592		5489572			
Saturation pH (@ 20C)	N/A	6.90		5489571			
Saturation pH (@ 4C)	N/A	7.15		5489572			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5493627			
Conductivity	umho/cm	700	1.0	5492799			
Dissolved Organic Carbon	mg/L	2.4	0.50	5491850	2.3	0.50	5491850
Orthophosphate (P)	mg/L	0.015	0.010	5497254	0.015	0.010	5497254
pH	pH	7.74		5492795			
Dissolved Sulphate (SO4)	mg/L	15	1.0	5497243	15	1.0	5497243
Alkalinity (Total as CaCO3)	mg/L	320	1.0	5492793			
Dissolved Chloride (Cl)	mg/L	20	1.0	5497233	20	1.0	5497233
Nitrite (N)	mg/L	<0.010	0.010	5491950			
Nitrate (N)	mg/L	5.31	0.10	5491950			
Metals							
. Aluminum (Al)	mg/L	0.086	0.0050	5492448			
. Antimony (Sb)	mg/L	<0.00050	0.00050	5492448			
. Arsenic (As)	mg/L	<0.0010	0.0010	5492448			
. Barium (Ba)	mg/L	0.045	0.0020	5492448			
. Beryllium (Be)	mg/L	<0.00050	0.00050	5492448			
. Boron (B)	mg/L	0.027	0.010	5492448			

RDL = Reportable Detection Limit
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N/A = Not Applicable

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Maxxam Job #: B887457
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GME362			GME362		
Sampling Date		2018/04/17 16:20			2018/04/17 16:20		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK7 Lab-Dup**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5492448			
. Calcium (Ca)	mg/L	110	0.20	5492448			
. Chromium (Cr)	mg/L	<0.0050	0.0050	5492448			
. Cobalt (Co)	mg/L	<0.00050	0.00050	5492448			
. Copper (Cu)	mg/L	0.035	0.0010	5492448			
. Iron (Fe)	mg/L	<0.10	0.10	5492448			
. Lead (Pb)	mg/L	0.0012	0.00050	5492448			
. Magnesium (Mg)	mg/L	12	0.050	5492448			
. Manganese (Mn)	mg/L	0.0024	0.0020	5492448			
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5492448			
. Nickel (Ni)	mg/L	<0.0010	0.0010	5492448			
. Phosphorus (P)	mg/L	<0.10	0.10	5492448			
. Potassium (K)	mg/L	2.6	0.20	5492448			
. Selenium (Se)	mg/L	<0.0020	0.0020	5492448			
. Silicon (Si)	mg/L	5.4	0.050	5492448			
. Silver (Ag)	mg/L	<0.00010	0.00010	5492448			
. Sodium (Na)	mg/L	24	0.10	5492448			
. Strontium (Sr)	mg/L	0.23	0.0010	5492448			
. Thallium (Tl)	mg/L	<0.000050	0.000050	5492448			
. Titanium (Ti)	mg/L	<0.0050	0.0050	5492448			
. Uranium (U)	mg/L	0.00032	0.00010	5492448			
. Vanadium (V)	mg/L	<0.00050	0.00050	5492448			
. Zinc (Zn)	mg/L	0.033	0.0050	5492448			
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5492448			

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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
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RESULTS OF ANALYSES OF WATER

Maxxam ID		GME356		GME357			GME357		
Sampling Date		2018/04/17 10:35		2018/04/17 11:52			2018/04/17 11:52		
COC Number		657867-01-01		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**QC Batch**	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Acidity	mg/L	31	5500182	<5.0	5.0	5500182			
Total Dissolved Solids	mg/L	780	5497059	180	10	5497038	180	10	5497038
Fluoride (F-)	mg/L	<0.10	5491007	0.21	0.10	5494478	0.22	0.10	5494478
Total Organic Carbon (TOC)	mg/L	2.2	5494432	0.76	0.50	5494432			
Total Suspended Solids	mg/L	<10	5496423	<10	10	5496423			
Turbidity	NTU	<0.1	5490444	1.2	0.1	5490444			
WAD Cyanide (Free)	ug/L	<1	5491483	<1	1	5491483			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		GME358		GME359			GME359		
Sampling Date		2018/04/17 12:53		2018/04/17 14:00			2018/04/17 14:00		
COC Number		657867-01-01		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK3**	**QC Batch**	**WG-160900764-20180417-JK4**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK4 Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Acidity	mg/L	<5.0	5500182	15	5.0	5500583	15	5.0	5500583
Total Dissolved Solids	mg/L	240	5497038	265	10	5497059	245	10	5497059
Fluoride (F-)	mg/L	<0.10	5491007	<0.10	0.10	5497923	<0.10	0.10	5497923
Total Organic Carbon (TOC)	mg/L	1.4	5494432	1.3	0.50	5494432			
Total Suspended Solids	mg/L	<10	5496423	<10	10	5496423			
Turbidity	NTU	5.8	5490444	0.2	0.1	5490444			
WAD Cyanide (Free)	ug/L	<1	5491483	<1	1	5491483			

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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
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RESULTS OF ANALYSES OF WATER

Maxxam ID		GME360		GME361			GME361		
Sampling Date		2018/04/17 14:35		2018/04/17 15:17			2018/04/17 15:17		
COC Number		657867-01-01		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK5**	**QC Batch**	**WG-160900764-20180417-JK6**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK6 Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Acidity	mg/L	19	5500182	25	5.0	5500182			
Total Dissolved Solids	mg/L	350	5497038	655	10	5497059			
Fluoride (F-)	mg/L	<0.10	5494478	<0.10	0.10	5492764	<0.10	0.10	5492764
Total Organic Carbon (TOC)	mg/L	1.3	5494432	1.4	0.50	5494432			
Total Suspended Solids	mg/L	<10	5496423	<10	10	5496423			
Turbidity	NTU	<0.1	5493008	<0.1	0.1	5490444			
WAD Cyanide (Free)	ug/L	<1	5491483	<1	1	5491483			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		GME362		
Sampling Date		2018/04/17 16:20		
COC Number		657867-01-01		
	UNITS	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
Inorganics				
Acidity	mg/L	22	5.0	5500182
Total Dissolved Solids	mg/L	375	10	5497038
Fluoride (F-)	mg/L	<0.10	0.10	5492800
Total Organic Carbon (TOC)	mg/L	2.4	0.50	5494432
Total Suspended Solids	mg/L	<10	10	5496423
Turbidity	NTU	2.2	0.1	5490444
WAD Cyanide (Free)	ug/L	<1	1	5491483

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		GME356		GME357	GME358		
Sampling Date		2018/04/17 10:35		2018/04/17 11:52	2018/04/17 12:53		
COC Number		657867-01-01		657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**QC Batch**	**WG-160900764-20180417-JK2**	**WG-160900764-20180417-JK3**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	5490607	<0.50	<0.50	0.50	5490607
Mercury (Hg)	mg/L	<0.0001	5493559	<0.0001	<0.0001	0.0001	5493496

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		GME359		GME360			GME360		
Sampling Date		2018/04/17 14:00		2018/04/17 14:35			2018/04/17 14:35		
COC Number		657867-01-01		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK4**	**QC Batch**	**WG-160900764-20180417-JK5**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK5 Lab-Dup**	**RDL**	**QC Batch**
Metals									
Chromium (VI)	ug/L	<0.50	5490607	<0.50	0.50	5490607	<0.50	0.50	5490607
Mercury (Hg)	mg/L	<0.0001	5493496	<0.0001	0.0001	5493559			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		GME361		GME362		
Sampling Date		2018/04/17 15:17		2018/04/17 16:20		
COC Number		657867-01-01		657867-01-01		
	UNITS	**WG-160900764-20180417-JK6**	**QC Batch**	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
Metals						
Chromium (VI)	ug/L	<0.50	5490607	<0.50	0.50	5490607
Mercury (Hg)	mg/L	<0.0001	5493857	<0.0001	0.0001	5493496

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

MICROBIOLOGY (WATER)

Maxxam ID		GME356	GME357	GME358	GME359	
Sampling Date		2018/04/17 10:35	2018/04/17 11:52	2018/04/17 12:53	2018/04/17 14:00	
COC Number		657867-01-01	657867-01-01	657867-01-01	657867-01-01	
	UNITS	**WG-160900764-20180417-JK1**	**WG-160900764-20180417-JK2**	**WG-160900764-20180417-JK3**	**WG-160900764-20180417-JK4**	**QC Batch**
Microbiological						
Background	CFU/100mL	140	0	0	800	5490448
Total Coliforms	CFU/100mL	0	0	0	78	5490448
Escherichia coli	CFU/100mL	0	0	0	54	5490448
QC Batch = Quality Control Batch						

Maxxam ID		GME360	GME361	GME362	
Sampling Date		2018/04/17 14:35	2018/04/17 15:17	2018/04/17 16:20	
COC Number		657867-01-01	657867-01-01	657867-01-01	
	UNITS	**WG-160900764-20180417-JK5**	**WG-160900764-20180417-JK6**	**WG-160900764-20180417-JK7**	**QC Batch**
Microbiological					
Background	CFU/100mL	34	56	460	5490448
Total Coliforms	CFU/100mL	0	0	16	5490448
Escherichia coli	CFU/100mL	0	0	0	5490448
QC Batch = Quality Control Batch					

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Stantec Consulting Ltd
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Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 PCBS (WATER)

Maxxam ID		GME356	GME356	GME357	GME358		
Sampling Date		2018/04/17 10:35	2018/04/17 10:35	2018/04/17 11:52	2018/04/17 12:53		
COC Number		657867-01-01	657867-01-01	657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**WG-160900764-20180417-JK1 Lab-Dup**	**WG-160900764-20180417-JK2**	**WG-160900764-20180417-JK3**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Surrogate Recovery (%)							
Decachlorobiphenyl	%	90	108	99	97		5492745

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Maxxam ID		GME359	GME360	GME361	GME362		
Sampling Date		2018/04/17 14:00	2018/04/17 14:35	2018/04/17 15:17	2018/04/17 16:20		
COC Number		657867-01-01	657867-01-01	657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK4**	**WG-160900764-20180417-JK5**	**WG-160900764-20180417-JK6**	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5492745
Surrogate Recovery (%)							
Decachlorobiphenyl	%	95	94	79	96		5492745

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME356			GME356		
Sampling Date		2018/04/17 10:35			2018/04/17 10:35		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK1 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	5489730			
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	10	5491544	<10	10	5491544
Benzene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Bromodichloromethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
Bromoform	ug/L	<1.0	1.0	5491544	<1.0	1.0	5491544
Bromomethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
Carbon Tetrachloride	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Chlorobenzene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Chloroform	ug/L	0.48	0.20	5491544	0.47	0.20	5491544
Dibromochloromethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,2-Dichlorobenzene	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,3-Dichlorobenzene	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,4-Dichlorobenzene	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	5491544	<1.0	1.0	5491544
1,1-Dichloroethane	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
1,2-Dichloroethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,1-Dichloroethylene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,2-Dichloropropane	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	5491544	<0.30	0.30	5491544
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	5491544	<0.40	0.40	5491544
Ethylbenzene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Ethylene Dibromide	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Hexane	ug/L	<1.0	1.0	5491544	<1.0	1.0	5491544
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	5491544	<2.0	2.0	5491544
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	5491544	<10	10	5491544
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	5491544	<5.0	5.0	5491544
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME356			GME356		
Sampling Date		2018/04/17 10:35			2018/04/17 10:35		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK1 Lab-Dup**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
Tetrachloroethylene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Toluene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
1,1,1-Trichloroethane	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
1,1,2-Trichloroethane	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
Trichloroethylene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	5491544	<0.50	0.50	5491544
Vinyl Chloride	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
p+m-Xylene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
o-Xylene	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
Total Xylenes	ug/L	<0.20	0.20	5491544	<0.20	0.20	5491544
F1 (C6-C10)	ug/L	<25	25	5491544	<25	25	5491544
F1 (C6-C10) - BTEX	ug/L	<25	25	5491544	<25	25	5491544
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	5494062			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	5494062			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	5494062			
Reached Baseline at C50	ug/L	Yes		5494062			
Surrogate Recovery (%)							
o-Terphenyl	%	102		5494062			
4-Bromofluorobenzene	%	91		5491544	91		5491544
D4-1,2-Dichloroethane	%	99		5491544	100		5491544
D8-Toluene	%	102		5491544	104		5491544

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME357			GME357		
Sampling Date		2018/04/17 11:52			2018/04/17 11:52		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	5489730			
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	10	5491544			
Benzene	ug/L	<0.20	0.20	5491544			
Bromodichloromethane	ug/L	<0.50	0.50	5491544			
Bromoform	ug/L	<1.0	1.0	5491544			
Bromomethane	ug/L	<0.50	0.50	5491544			
Carbon Tetrachloride	ug/L	<0.20	0.20	5491544			
Chlorobenzene	ug/L	<0.20	0.20	5491544			
Chloroform	ug/L	<0.20	0.20	5491544			
Dibromochloromethane	ug/L	<0.50	0.50	5491544			
1,2-Dichlorobenzene	ug/L	<0.50	0.50	5491544			
1,3-Dichlorobenzene	ug/L	<0.50	0.50	5491544			
1,4-Dichlorobenzene	ug/L	<0.50	0.50	5491544			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	5491544			
1,1-Dichloroethane	ug/L	<0.20	0.20	5491544			
1,2-Dichloroethane	ug/L	<0.50	0.50	5491544			
1,1-Dichloroethylene	ug/L	<0.20	0.20	5491544			
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	5491544			
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	5491544			
1,2-Dichloropropane	ug/L	<0.20	0.20	5491544			
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	5491544			
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	5491544			
Ethylbenzene	ug/L	<0.20	0.20	5491544			
Ethylene Dibromide	ug/L	<0.20	0.20	5491544			
Hexane	ug/L	<1.0	1.0	5491544			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	5491544			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	5491544			
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	5491544			
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	5491544			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME357			GME357		
Sampling Date		2018/04/17 11:52			2018/04/17 11:52		
COC Number		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	0.50	5491544			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	5491544			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	5491544			
Tetrachloroethylene	ug/L	<0.20	0.20	5491544			
Toluene	ug/L	<0.20	0.20	5491544			
1,1,1-Trichloroethane	ug/L	<0.20	0.20	5491544			
1,1,2-Trichloroethane	ug/L	<0.50	0.50	5491544			
Trichloroethylene	ug/L	<0.20	0.20	5491544			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	5491544			
Vinyl Chloride	ug/L	<0.20	0.20	5491544			
p+m-Xylene	ug/L	<0.20	0.20	5491544			
o-Xylene	ug/L	<0.20	0.20	5491544			
Total Xylenes	ug/L	<0.20	0.20	5491544			
F1 (C6-C10)	ug/L	<25	25	5491544			
F1 (C6-C10) - BTEX	ug/L	<25	25	5491544			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	5494062	<100	100	5494062
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	5494062	<200	200	5494062
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	5494062	<200	200	5494062
Reached Baseline at C50	ug/L	Yes		5494062	Yes		5494062
Surrogate Recovery (%)							
o-Terphenyl	%	103		5494062	104		5494062
4-Bromofluorobenzene	%	94		5491544			
D4-1,2-Dichloroethane	%	102		5491544			
D8-Toluene	%	102		5491544			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME358	GME359	GME360		
Sampling Date		2018/04/17 12:53	2018/04/17 14:00	2018/04/17 14:35		
COC Number		657867-01-01	657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK3**	**WG-160900764-20180417-JK4**	**WG-160900764-20180417-JK5**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5489730
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5491544
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5491544
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5491544
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5491544
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5491544
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5491544
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5491544
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5491544
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5491544
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5491544
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5491544
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5491544
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5491544
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5491544

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME358	GME359	GME360		
Sampling Date		2018/04/17 12:53	2018/04/17 14:00	2018/04/17 14:35		
COC Number		657867-01-01	657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK3**	**WG-160900764-20180417-JK4**	**WG-160900764-20180417-JK5**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5491544
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5491544
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5491544
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5491544
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5491544
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5491544
F1 (C6-C10)	ug/L	<25	<25	<25	25	5491544
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5491544
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5494062
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5494062
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5494062
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5494062
Surrogate Recovery (%)						
o-Terphenyl	%	101	104	102		5494062
4-Bromofluorobenzene	%	93	93	90		5491544
D4-1,2-Dichloroethane	%	101	102	102		5491544
D8-Toluene	%	102	102	103		5491544

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME361	GME362		
Sampling Date		2018/04/17 15:17	2018/04/17 16:20		
COC Number		657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK6**	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5489730
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	5491544
Benzene	ug/L	<0.20	<0.20	0.20	5491544
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5491544
Bromoform	ug/L	<1.0	<1.0	1.0	5491544
Bromomethane	ug/L	<0.50	<0.50	0.50	5491544
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5491544
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5491544
Chloroform	ug/L	<0.20	<0.20	0.20	5491544
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5491544
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5491544
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5491544
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5491544
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5491544
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5491544
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5491544
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5491544
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5491544
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5491544
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5491544
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5491544
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5491544
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5491544
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5491544
Hexane	ug/L	<1.0	<1.0	1.0	5491544
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5491544
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5491544
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5491544
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5491544

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GME361	GME362		
Sampling Date		2018/04/17 15:17	2018/04/17 16:20		
COC Number		657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK6**	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5491544
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5491544
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5491544
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5491544
Toluene	ug/L	<0.20	<0.20	0.20	5491544
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5491544
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5491544
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5491544
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5491544
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5491544
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5491544
o-Xylene	ug/L	<0.20	<0.20	0.20	5491544
Total Xylenes	ug/L	<0.20	<0.20	0.20	5491544
F1 (C6-C10)	ug/L	<25	<25	25	5491544
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5491544
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5494062
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5494062
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5494062
Reached Baseline at C50	ug/L	Yes	Yes		5494062
Surrogate Recovery (%)					
o-Terphenyl	%	103	106		5494062
4-Bromofluorobenzene	%	94	91		5491544
D4-1,2-Dichloroethane	%	100	102		5491544
D8-Toluene	%	101	102		5491544

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GME356		GME357			GME357		
Sampling Date		2018/04/17 10:35		2018/04/17 11:52			2018/04/17 11:52		
COC Number		657867-01-01		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**QC Batch**	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**
Semivolatile Organics									
1,2,4-Trichlorobenzene	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
1-Methylnaphthalene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
2,4,5-Trichlorophenol	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
2,4,6-Trichlorophenol	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
2,4-Dichlorophenol	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
2,4-Dimethylphenol	ug/L	<0.5	5497891	<0.5	0.5	5493503	<0.5	0.5	5493503
2,4-Dinitrophenol	ug/L	<2	5497891	<2	2	5493503	<2	2	5493503
2,4-Dinitrotoluene	ug/L	<0.3	5497891	<0.3	0.3	5493503	<0.3	0.3	5493503
2,6-Dinitrotoluene	ug/L	<0.3	5497891	<0.3	0.3	5493503	<0.3	0.3	5493503
2-Chlorophenol	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
2-Methylnaphthalene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
3,3'-Dichlorobenzidine	ug/L	<0.5	5497891	<0.5	0.5	5493503	<0.5	0.5	5493503
Acenaphthene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
Acenaphthylene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
Anthracene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Benzo(a)anthracene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Benzo(a)pyrene	ug/L	<0.01	5497891	<0.01	0.01	5493503	<0.01	0.01	5493503
Benzo(b/j)fluoranthene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Benzo(g,h,i)perylene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Benzo(k)fluoranthene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Biphenyl	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Bis(2-chloroethyl)ether	ug/L	<0.5	5497891	<0.5	0.5	5493503	<0.5	0.5	5493503
Bis(2-chloroisopropyl)ether	ug/L	<0.5	5497891	<0.5	0.5	5493503	<0.5	0.5	5493503
Bis(2-ethylhexyl)phthalate	ug/L	<1	5497891	<1	1	5493503	<1	1	5493503
Chrysene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Dibenz(a,h)anthracene	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Diethyl phthalate	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Dimethyl phthalate	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Fluoranthene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
Fluorene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GME356		GME357			GME357		
Sampling Date		2018/04/17 10:35		2018/04/17 11:52			2018/04/17 11:52		
COC Number		657867-01-01		657867-01-01			657867-01-01		
	UNITS	**WG-160900764-20180417-JK1**	**QC Batch**	**WG-160900764-20180417-JK2**	**RDL**	**QC Batch**	**WG-160900764-20180417-JK2 Lab-Dup**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Naphthalene	ug/L	<0.2	5497891	<0.2	0.2	5493503	<0.2	0.2	5493503
p-Chloroaniline	ug/L	<1	5497891	<1	1	5493503	<1	1	5493503
Pentachlorophenol	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Phenanthrene	ug/L	<0.1	5497891	<0.1	0.1	5493503	<0.1	0.1	5493503
Phenol	ug/L	<0.5	5497891	<0.5	0.5	5493503	<0.5	0.5	5493503
Pyrene	ug/L	<0.05	5497891	<0.05	0.05	5493503	<0.05	0.05	5493503
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	<0.28	5490012	<0.28	0.28	5490012			
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	27 (1)	5497891	47 (1)		5493503	64		5493503
2-Fluorobiphenyl	%	30 (1)	5497891	50		5493503	54		5493503
D14-Terphenyl (FS)	%	100	5497891	101		5493503	102		5493503
D5-Nitrobenzene	%	37 (1)	5497891	45 (1)		5493503	46 (1)		5493503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GME358	GME359	GME360	GME361		
Sampling Date		2018/04/17 12:53	2018/04/17 14:00	2018/04/17 14:35	2018/04/17 15:17		
COC Number		657867-01-01	657867-01-01	657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK3**	**WG-160900764-20180417-JK4**	**WG-160900764-20180417-JK5**	**WG-160900764-20180417-JK6**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493503
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5493503
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5493503
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5493503
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493503
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5493503
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493503
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493503
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	5493503
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GME358	GME359	GME360	GME361		
Sampling Date		2018/04/17 12:53	2018/04/17 14:00	2018/04/17 14:35	2018/04/17 15:17		
COC Number		657867-01-01	657867-01-01	657867-01-01	657867-01-01		
	UNITS	**WG-160900764-20180417-JK3**	**WG-160900764-20180417-JK4**	**WG-160900764-20180417-JK5**	**WG-160900764-20180417-JK6**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493503
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5493503
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493503
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493503
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493503
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5490012
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	59	88	64	66		5493503
2-Fluorobiphenyl	%	48 (1)	85	75	76		5493503
D14-Terphenyl (FS)	%	101	102	102	104		5493503
D5-Nitrobenzene	%	43 (1)	80	73	69		5493503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GME362		
Sampling Date		2018/04/17 16:20		
COC Number		657867-01-01		
	UNITS	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
Semivolatile Organics				
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	5493503
1-Methylnaphthalene	ug/L	<0.2	0.2	5493503
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	5493503
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	5493503
2,4-Dichlorophenol	ug/L	<0.1	0.1	5493503
2,4-Dimethylphenol	ug/L	<0.5	0.5	5493503
2,4-Dinitrophenol	ug/L	<2	2	5493503
2,4-Dinitrotoluene	ug/L	<0.3	0.3	5493503
2,6-Dinitrotoluene	ug/L	<0.3	0.3	5493503
2-Chlorophenol	ug/L	<0.1	0.1	5493503
2-Methylnaphthalene	ug/L	<0.2	0.2	5493503
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	5493503
Acenaphthene	ug/L	<0.2	0.2	5493503
Acenaphthylene	ug/L	<0.2	0.2	5493503
Anthracene	ug/L	<0.05	0.05	5493503
Benzo(a)anthracene	ug/L	<0.05	0.05	5493503
Benzo(a)pyrene	ug/L	<0.01	0.01	5493503
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	5493503
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5493503
Benzo(k)fluoranthene	ug/L	<0.05	0.05	5493503
Biphenyl	ug/L	<0.1	0.1	5493503
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	5493503
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	5493503
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	5493503
Chrysene	ug/L	<0.05	0.05	5493503
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	5493503
Diethyl phthalate	ug/L	<0.1	0.1	5493503
Dimethyl phthalate	ug/L	<0.1	0.1	5493503
Fluoranthene	ug/L	<0.2	0.2	5493503
Fluorene	ug/L	<0.2	0.2	5493503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GME362		
Sampling Date		2018/04/17 16:20		
COC Number		657867-01-01		
	UNITS	**WG-160900764-20180417-JK7**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	5493503
Naphthalene	ug/L	<0.2	0.2	5493503
p-Chloroaniline	ug/L	<1	1	5493503
Pentachlorophenol	ug/L	<0.1	0.1	5493503
Phenanthrene	ug/L	<0.1	0.1	5493503
Phenol	ug/L	<0.5	0.5	5493503
Pyrene	ug/L	<0.05	0.05	5493503
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28	5490012
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	71		5493503
2-Fluorobiphenyl	%	69		5493503
D14-Terphenyl (FS)	%	104		5493503
D5-Nitrobenzene	%	58		5493503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME356
Sample ID: WG-160900764-20180417-JK1
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/24	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5491010	N/A	2018/04/19	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5490917	N/A	2018/04/20	Deonarine Ramnarine
Conductivity	AT	5491013	N/A	2018/04/19	Surinder Rai
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5491007	2018/04/18	2018/04/19	Surinder Rai
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493559	2018/04/20	2018/04/23	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5496235	N/A	2018/04/25	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5490869	N/A	2018/04/20	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/20	Sarah Huang
pH	AT	5491012	N/A	2018/04/19	Surinder Rai
Orthophosphate	KONE	5490919	N/A	2018/04/19	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5490927	N/A	2018/04/19	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5497059	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5490444	N/A	2018/04/19	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

Maxxam ID: GME356 Dup
Sample ID: WG-160900764-20180417-JK1
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/20	Sarah Huang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME357
Sample ID: WG-160900764-20180417-JK2
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/23	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/20	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5494460	N/A	2018/04/21	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5490917	N/A	2018/04/20	Deonarine Ramnarine
Conductivity	AT	5494467	N/A	2018/04/21	Yogesh Patel
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5494478	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493496	2018/04/20	2018/04/20	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/23	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5493616	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5490866	N/A	2018/04/20	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/20	Sarah Huang
pH	AT	5494464	N/A	2018/04/21	Yogesh Patel
Orthophosphate	KONE	5490919	N/A	2018/04/19	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5490927	N/A	2018/04/19	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5497038	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5490444	N/A	2018/04/19	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

Maxxam ID: GME357 Dup
Sample ID: WG-160900764-20180417-JK2
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/20	Milijana Avramovic
Alkalinity	AT	5494460	N/A	2018/04/21	Yogesh Patel
Conductivity	AT	5494467	N/A	2018/04/21	Yogesh Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5494478	2018/04/20	2018/04/21	Yogesh Patel

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME357 Dup
Sample ID: WG-160900764-20180417-JK2
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	5494464	N/A	2018/04/21	Yogesh Patel
Total Dissolved Solids	BAL	5497038	2018/04/23	2018/04/23	Shivani Desai

Maxxam ID: GME358
Sample ID: WG-160900764-20180417-JK3
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/23	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/21	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5491010	N/A	2018/04/19	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5490917	N/A	2018/04/20	Deonarine Ramnarine
Conductivity	AT	5491013	N/A	2018/04/19	Surinder Rai
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5491007	2018/04/18	2018/04/19	Surinder Rai
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493496	2018/04/20	2018/04/20	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5493616	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5490866	N/A	2018/04/20	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/20	Sarah Huang
pH	AT	5491012	N/A	2018/04/19	Surinder Rai
Orthophosphate	KONE	5490919	N/A	2018/04/19	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5490927	N/A	2018/04/19	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5497038	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5490444	N/A	2018/04/19	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME359
Sample ID: WG-160900764-20180417-JK4
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/23	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/20	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5490955	N/A	2018/04/20	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5490917	N/A	2018/04/20	Deonarine Ramnarine
Conductivity	AT	5490956	N/A	2018/04/20	Surinder Rai
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5497923	2018/04/24	2018/04/24	Surinder Rai
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493496	2018/04/20	2018/04/20	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/23	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5493616	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5490866	N/A	2018/04/20	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/21	Sarah Huang
pH	AT	5490960	N/A	2018/04/20	Surinder Rai
Orthophosphate	KONE	5490919	N/A	2018/04/19	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5490927	N/A	2018/04/19	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5497059	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5490444	N/A	2018/04/19	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

Maxxam ID: GME359 Dup
Sample ID: WG-160900764-20180417-JK4
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Fluoride	ISE	5497923	2018/04/24	2018/04/24	Surinder Rai
Total Dissolved Solids	BAL	5497059	2018/04/23	2018/04/23	Shivani Desai

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME360
Sample ID: WG-160900764-20180417-JK5
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/23	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/21	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5494460	N/A	2018/04/22	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5494187	N/A	2018/04/23	Deonarine Ramnarine
Conductivity	AT	5494467	N/A	2018/04/22	Yogesh Patel
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491837	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5494478	2018/04/20	2018/04/22	Yogesh Patel
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493559	2018/04/20	2018/04/23	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5493616	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5494006	N/A	2018/04/21	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/21	Sarah Huang
pH	AT	5494464	N/A	2018/04/22	Yogesh Patel
Orthophosphate	KONE	5494207	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494205	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5497038	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5493008	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

Maxxam ID: GME360 Dup
Sample ID: WG-160900764-20180417-JK5
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME361
Sample ID: WG-160900764-20180417-JK6
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/23	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/21	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5492748	N/A	2018/04/20	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5492814	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5492749	N/A	2018/04/20	Surinder Rai
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5492764	2018/04/19	2018/04/20	Surinder Rai
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493857	2018/04/20	2018/04/23	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5493627	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5491950	N/A	2018/04/21	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/21	Sarah Huang
pH	AT	5492772	N/A	2018/04/20	Surinder Rai
Orthophosphate	KONE	5492820	N/A	2018/04/20	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5492819	N/A	2018/04/20	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5497059	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5490444	N/A	2018/04/19	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

Maxxam ID: GME361 Dup
Sample ID: WG-160900764-20180417-JK6
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	5492748	N/A	2018/04/20	Surinder Rai
Conductivity	AT	5492749	N/A	2018/04/20	Surinder Rai
Fluoride	ISE	5492764	2018/04/19	2018/04/20	Surinder Rai
Total Ammonia-N	LACH/NH4	5493627	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5491950	N/A	2018/04/21	Chandra Nandlal

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME361 Dup
Sample ID: WG-160900764-20180417-JK6
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	5492772	N/A	2018/04/20	Surinder Rai

Maxxam ID: GME362
Sample ID: WG-160900764-20180417-JK7
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5490012	N/A	2018/04/23	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493503	2018/04/20	2018/04/21	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5492793	N/A	2018/04/20	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5489568	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5489730	N/A	2018/04/23	Automated Statchk
Chloride by Automated Colourimetry	KONE	5497233	N/A	2018/04/24	Deonarine Ramnarine
Conductivity	AT	5492799	N/A	2018/04/20	Surinder Rai
Chromium (VI) in Water	IC	5490607	N/A	2018/04/23	Lang Le
Free (WAD) Cyanide	SKAL/CN	5491483	N/A	2018/04/20	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5494062	2018/04/20	2018/04/21	Zhiyue (Frank) Zhu
Fluoride	ISE	5492800	2018/04/19	2018/04/20	Surinder Rai
Hardness (calculated as CaCO3)		5489802	N/A	2018/04/23	Automated Statchk
Mercury in Water by CVAA	CV/AA	5493496	2018/04/20	2018/04/20	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5492448	N/A	2018/04/23	Prempal Bhatti
Ion Balance (% Difference)	CALC	5489331	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5489570	N/A	2018/04/23	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5490448	N/A	2018/04/18	Farhana Rahman
Total Ammonia-N	LACH/NH4	5493627	N/A	2018/04/23	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5491950	N/A	2018/04/21	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5492745	2018/04/19	2018/04/21	Sarah Huang
pH	AT	5492795	N/A	2018/04/20	Surinder Rai
Orthophosphate	KONE	5497254	N/A	2018/04/24	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5489571	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5489572	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5497243	N/A	2018/04/24	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5489573	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5497038	2018/04/23	2018/04/23	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5494432	N/A	2018/04/21	Anastasia Hamanov
Total Suspended Solids	BAL	5496423	2018/04/23	2018/04/23	Fang Wang
Turbidity	AT	5490444	N/A	2018/04/19	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5491544	N/A	2018/04/21	Anna Gabrielyan

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Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: GME362 Dup
Sample ID: WG-160900764-20180417-JK7
Matrix: Water

Collected: 2018/04/17
Shipped:
Received: 2018/04/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	5497233	N/A	2018/04/24	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5491850	N/A	2018/04/19	Anastasia Hamanov
Orthophosphate	KONE	5497254	N/A	2018/04/24	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	5497243	N/A	2018/04/24	Deonarine Ramnarine

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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	1.3°C
Package 3	3.0°C
Package 4	1.7°C
Package 5	2.0°C
Package 6	2.0°C
Package 7	2.3°C

Sample GME356 [WG-160900764-20180417-JK1] : ABN Analysis: The majority of the surrogate recoveries were below the control limits. This is likely due to a matrix effect as similar results (low surrogate recoveries) were also obtained in the Duplicate sample analysis. Discretion is advised as some of the data may have an associated low bias.

Sample GME357 [WG-160900764-20180417-JK2] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample GME362 [WG-160900764-20180417-JK7] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5491544	4-Bromofluorobenzene	2018/04/21	99	70 - 130	99	70 - 130	91	%				
5491544	D4-1,2-Dichloroethane	2018/04/21	101	70 - 130	99	70 - 130	99	%				
5491544	D8-Toluene	2018/04/21	102	70 - 130	102	70 - 130	103	%				
5492745	Decachlorobiphenyl	2018/04/20	121	60 - 130	75	60 - 130	89	%				
5493503	2,4,6-Tribromophenol	2018/04/20	99	50 - 130	102	50 - 130	72	%				
5493503	2-Fluorobiphenyl	2018/04/20	72	50 - 130	77	50 - 130	71	%				
5493503	D14-Terphenyl (FS)	2018/04/20	107	50 - 130	108	50 - 130	102	%				
5493503	D5-Nitrobenzene	2018/04/20	73	50 - 130	83	50 - 130	63	%				
5494062	o-Terphenyl	2018/04/21	109	60 - 130	106	60 - 130	103	%				
5497891	2,4,6-Tribromophenol	2018/04/24	94	50 - 130	100	50 - 130	77	%				
5497891	2-Fluorobiphenyl	2018/04/24	58	50 - 130	72	50 - 130	75	%				
5497891	D14-Terphenyl (FS)	2018/04/24	108	50 - 130	106	50 - 130	101	%				
5497891	D5-Nitrobenzene	2018/04/24	58	50 - 130	88	50 - 130	81	%				
5490444	Turbidity	2018/04/19			100	85 - 115	<0.1	NTU	NC	20		
5490607	Chromium (VI)	2018/04/23	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
5490866	Nitrate (N)	2018/04/20	111	80 - 120	97	80 - 120	<0.10	mg/L	15	20		
5490866	Nitrite (N)	2018/04/20	NC	80 - 120	101	80 - 120	<0.010	mg/L	2.0	20		
5490869	Nitrate (N)	2018/04/20	96	80 - 120	97	80 - 120	<0.10	mg/L	2.5	20		
5490869	Nitrite (N)	2018/04/20	101	80 - 120	101	80 - 120	<0.010	mg/L	0.90	20		
5490917	Dissolved Chloride (Cl)	2018/04/20	108	80 - 120	102	80 - 120	<1.0	mg/L	2.2	20		
5490919	Orthophosphate (P)	2018/04/19	103	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
5490927	Dissolved Sulphate (SO4)	2018/04/19	89	75 - 125	105	80 - 120	<1.0	mg/L	NC	20		
5490955	Alkalinity (Total as CaCO3)	2018/04/19			94	85 - 115	<1.0	mg/L	0.84	20		
5490956	Conductivity	2018/04/19			101	85 - 115	<1.0	umho/cm	0.73	25		
5490960	pH	2018/04/19			101	98 - 103			0.47	N/A		
5491007	Fluoride (F-)	2018/04/19	98	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
5491010	Alkalinity (Total as CaCO3)	2018/04/19			94	85 - 115	<1.0	mg/L	16	20		
5491012	pH	2018/04/19			101	98 - 103			2.6	N/A		
5491013	Conductivity	2018/04/19			101	85 - 115	<1.0	umho/cm	13	25		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5491483	WAD Cyanide (Free)	2018/04/20	83	80 - 120	103	80 - 120	<1	ug/L	NC	20		
5491544	1,1,1,2-Tetrachloroethane	2018/04/21	101	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5491544	1,1,1-Trichloroethane	2018/04/21	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5491544	1,1,2,2-Tetrachloroethane	2018/04/21	103	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5491544	1,1,2-Trichloroethane	2018/04/21	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5491544	1,1-Dichloroethane	2018/04/21	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5491544	1,1-Dichloroethylene	2018/04/21	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
5491544	1,2-Dichlorobenzene	2018/04/21	107	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
5491544	1,2-Dichloroethane	2018/04/21	101	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5491544	1,2-Dichloropropane	2018/04/21	97	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5491544	1,3-Dichlorobenzene	2018/04/21	113	70 - 130	111	70 - 130	<0.50	ug/L	NC	30		
5491544	1,4-Dichlorobenzene	2018/04/21	114	70 - 130	111	70 - 130	<0.50	ug/L	NC	30		
5491544	Acetone (2-Propanone)	2018/04/21	106	60 - 140	99	60 - 140	<10	ug/L	NC	30		
5491544	Benzene	2018/04/21	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5491544	Bromodichloromethane	2018/04/21	100	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5491544	Bromoform	2018/04/21	97	70 - 130	95	70 - 130	<1.0	ug/L	NC	30		
5491544	Bromomethane	2018/04/21	94	60 - 140	95	60 - 140	<0.50	ug/L	NC	30		
5491544	Carbon Tetrachloride	2018/04/21	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5491544	Chlorobenzene	2018/04/21	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5491544	Chloroform	2018/04/21	99	70 - 130	98	70 - 130	<0.20	ug/L	1.7	30		
5491544	cis-1,2-Dichloroethylene	2018/04/21	100	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5491544	cis-1,3-Dichloropropene	2018/04/21	104	70 - 130	102	70 - 130	<0.30	ug/L	NC	30		
5491544	Dibromochloromethane	2018/04/21	93	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5491544	Dichlorodifluoromethane (FREON 12)	2018/04/21	68	60 - 140	74	60 - 140	<1.0	ug/L	NC	30		
5491544	Ethylbenzene	2018/04/21	103	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
5491544	Ethylene Dibromide	2018/04/21	102	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5491544	F1 (C6-C10) - BTEX	2018/04/21					<25	ug/L	NC	30		
5491544	F1 (C6-C10)	2018/04/21	103	60 - 140	103	60 - 140	<25	ug/L	NC	30		
5491544	Hexane	2018/04/21	96	70 - 130	97	70 - 130	<1.0	ug/L	NC	30		
5491544	Methyl Ethyl Ketone (2-Butanone)	2018/04/21	102	60 - 140	97	60 - 140	<10	ug/L	NC	30		
5491544	Methyl Isobutyl Ketone	2018/04/21	99	70 - 130	95	70 - 130	<5.0	ug/L	NC	30		

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Stantec Consulting Ltd
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Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5491544	Methyl t-butyl ether (MTBE)	2018/04/21	98	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5491544	Methylene Chloride(Dichloromethane)	2018/04/21	102	70 - 130	102	70 - 130	<2.0	ug/L	NC	30		
5491544	o-Xylene	2018/04/21	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5491544	p+m-Xylene	2018/04/21	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
5491544	Styrene	2018/04/21	103	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
5491544	Tetrachloroethylene	2018/04/21	101	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
5491544	Toluene	2018/04/21	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5491544	Total Xylenes	2018/04/21					<0.20	ug/L	NC	30		
5491544	trans-1,2-Dichloroethylene	2018/04/21	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5491544	trans-1,3-Dichloropropene	2018/04/21	107	70 - 130	106	70 - 130	<0.40	ug/L	NC	30		
5491544	Trichloroethylene	2018/04/21	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5491544	Trichlorofluoromethane (FREON 11)	2018/04/21	97	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5491544	Vinyl Chloride	2018/04/21	145 (1)	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
5491837	Dissolved Organic Carbon	2018/04/19	93	80 - 120	98	80 - 120	<0.50	mg/L	0.78	20		
5491850	Dissolved Organic Carbon	2018/04/19	99	80 - 120	101	80 - 120	<0.50	mg/L	1.0	20		
5491950	Nitrate (N)	2018/04/21	97	80 - 120	99	80 - 120	<0.10	mg/L	0.56	20		
5491950	Nitrite (N)	2018/04/21	99	80 - 120	100	80 - 120	<0.010	mg/L	0	20		
5492448	. Aluminum (Al)	2018/04/23	99	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
5492448	. Antimony (Sb)	2018/04/23	107	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
5492448	. Arsenic (As)	2018/04/23	102	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
5492448	. Barium (Ba)	2018/04/23	100	80 - 120	97	80 - 120	<0.0020	mg/L	1.4	20		
5492448	. Beryllium (Be)	2018/04/23	102	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
5492448	. Boron (B)	2018/04/23	96	80 - 120	91	80 - 120	<0.010	mg/L	7.8	20		
5492448	. Cadmium (Cd)	2018/04/23	102	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
5492448	. Calcium (Ca)	2018/04/23	NC	80 - 120	99	80 - 120	<0.20	mg/L	1.2	20		
5492448	. Chromium (Cr)	2018/04/23	98	80 - 120	95	80 - 120	<0.0050	mg/L	NC	20		
5492448	. Cobalt (Co)	2018/04/23	103	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
5492448	. Copper (Cu)	2018/04/23	103	80 - 120	99	80 - 120	<0.0010	mg/L	17	20		
5492448	. Iron (Fe)	2018/04/23	104	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
5492448	. Lead (Pb)	2018/04/23	99	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
5492448	. Magnesium (Mg)	2018/04/23	97	80 - 120	101	80 - 120	<0.050	mg/L	0.79	20		

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5492448	. Manganese (Mn)	2018/04/23	101	80 - 120	98	80 - 120	<0.0020	mg/L	NC	20		
5492448	. Molybdenum (Mo)	2018/04/23	103	80 - 120	99	80 - 120	<0.00050	mg/L	9.7	20		
5492448	. Nickel (Ni)	2018/04/23	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
5492448	. Phosphorus (P)	2018/04/20	104	80 - 120	104	80 - 120	<0.10	mg/L				
5492448	. Potassium (K)	2018/04/23	105	80 - 120	101	80 - 120	<0.20	mg/L	0.17	20		
5492448	. Selenium (Se)	2018/04/23	102	80 - 120	101	80 - 120	<0.0020	mg/L	NC	20		
5492448	. Silicon (Si)	2018/04/23	104	80 - 120	98	80 - 120	<0.050	mg/L	1.4	20		
5492448	. Silver (Ag)	2018/04/23	100	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
5492448	. Sodium (Na)	2018/04/23	99	80 - 120	98	80 - 120	<0.10	mg/L	0.31	20		
5492448	. Strontium (Sr)	2018/04/23	101	80 - 120	99	80 - 120	<0.0010	mg/L	0.37	20		
5492448	. Thallium (Tl)	2018/04/23	101	80 - 120	100	80 - 120	<0.000050	mg/L	NC	20		
5492448	. Titanium (Ti)	2018/04/23	103	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
5492448	. Uranium (U)	2018/04/23	102	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
5492448	. Vanadium (V)	2018/04/23	99	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
5492448	. Zinc (Zn)	2018/04/23	100	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
5492448	. Zirconium (Zr)	2018/04/23	106	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
5492745	Aroclor 1242	2018/04/20					<0.05	ug/L	NC	30		
5492745	Aroclor 1248	2018/04/20					<0.05	ug/L	NC	30		
5492745	Aroclor 1254	2018/04/20					<0.05	ug/L	NC	30		
5492745	Aroclor 1260	2018/04/20	121	60 - 130	72	60 - 130	<0.05	ug/L	NC	30		
5492745	Total PCB	2018/04/20	121	60 - 130	72	60 - 130	<0.05	ug/L	NC	40		
5492748	Alkalinity (Total as CaCO3)	2018/04/20			95	85 - 115	<1.0	mg/L	0.90	20		
5492749	Conductivity	2018/04/20			102	85 - 115	<1.0	umho/cm	0.25	25		
5492764	Fluoride (F-)	2018/04/20	97	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
5492772	pH	2018/04/20			102	98 - 103			0.077	N/A		
5492793	Alkalinity (Total as CaCO3)	2018/04/20			96	85 - 115	<1.0	mg/L	0.51	20		
5492795	pH	2018/04/20			102	98 - 103			0.99	N/A		
5492799	Conductivity	2018/04/20			101	85 - 115	<1.0	umho/cm	0.44	25		
5492800	Fluoride (F-)	2018/04/20	105	80 - 120	102	80 - 120	<0.10	mg/L	0.47	20		

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5492814	Dissolved Chloride (Cl)	2018/04/22	115	80 - 120	103	80 - 120	<1.0	mg/L	2.4	20		
5492819	Dissolved Sulphate (SO4)	2018/04/20	84	75 - 125	103	80 - 120	<1.0	mg/L	1.1	20		
5492820	Orthophosphate (P)	2018/04/20	114	75 - 125	100	80 - 120	<0.010	mg/L	17	25		
5493008	Turbidity	2018/04/20			99	85 - 115	<0.1	NTU	NC	20		
5493496	Mercury (Hg)	2018/04/20	103	75 - 125	97	80 - 120	<0.0001	mg/L	NC	20		
5493503	1,2,4-Trichlorobenzene	2018/04/20	77	40 - 130	79	40 - 130	<0.1	ug/L	NC	30		
5493503	1-Methylnaphthalene	2018/04/20	80	50 - 130	91	50 - 130	<0.2	ug/L	NC	30		
5493503	2,4,5-Trichlorophenol	2018/04/20	98	50 - 130	107	50 - 130	<0.2	ug/L	NC	30		
5493503	2,4,6-Trichlorophenol	2018/04/20	87	50 - 130	99	50 - 130	<0.2	ug/L	NC	30		
5493503	2,4-Dichlorophenol	2018/04/20	89	50 - 130	97	50 - 130	<0.1	ug/L	NC	30		
5493503	2,4-Dimethylphenol	2018/04/20	38	30 - 130	65	30 - 130	<0.5	ug/L	NC	30		
5493503	2,4-Dinitrophenol	2018/04/20	126	30 - 130	124	30 - 130	<2	ug/L	NC	30		
5493503	2,4-Dinitrotoluene	2018/04/20	93	50 - 130	93	50 - 130	<0.3	ug/L	NC	30		
5493503	2,6-Dinitrotoluene	2018/04/20	89	50 - 130	91	50 - 130	<0.3	ug/L	NC	30		
5493503	2-Chlorophenol	2018/04/20	68	50 - 130	79	50 - 130	<0.1	ug/L	NC	30		
5493503	2-Methylnaphthalene	2018/04/20	79	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5493503	3,3'-Dichlorobenzidine	2018/04/20	91	30 - 130	103	30 - 130	<0.5	ug/L	NC	30		
5493503	Acenaphthene	2018/04/20	92	50 - 130	101	50 - 130	<0.2	ug/L	NC	30		
5493503	Acenaphthylene	2018/04/20	89	50 - 130	98	50 - 130	<0.2	ug/L	NC	30		
5493503	Anthracene	2018/04/20	91	50 - 130	95	50 - 130	<0.05	ug/L	NC	30		
5493503	Benzo(a)anthracene	2018/04/20	107	50 - 130	111	50 - 130	<0.05	ug/L	NC	30		
5493503	Benzo(a)pyrene	2018/04/20	104	50 - 130	107	50 - 130	<0.01	ug/L	NC	30		
5493503	Benzo(b/j)fluoranthene	2018/04/20	107	50 - 130	110	50 - 130	<0.05	ug/L	NC	30		
5493503	Benzo(g,h,i)perylene	2018/04/20	117	50 - 130	126	50 - 130	<0.05	ug/L	NC	30		
5493503	Benzo(k)fluoranthene	2018/04/20	94	50 - 130	95	50 - 130	<0.05	ug/L	NC	30		
5493503	Biphenyl	2018/04/20	77	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
5493503	Bis(2-chloroethyl)ether	2018/04/20	74	50 - 130	84	50 - 130	<0.5	ug/L	NC	30		
5493503	Bis(2-chloroisopropyl)ether	2018/04/20	75	50 - 130	86	50 - 130	<0.5	ug/L	NC	30		
5493503	Bis(2-ethylhexyl)phthalate	2018/04/20	110	50 - 130	110	50 - 130	<1	ug/L	NC	30		
5493503	Chrysene	2018/04/20	109	50 - 130	113	50 - 130	<0.05	ug/L	NC	30		
5493503	Dibenz(a,h)anthracene	2018/04/20	107	50 - 130	112	50 - 130	<0.1	ug/L	NC	30		

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QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5493503	Diethyl phthalate	2018/04/20	99	50 - 130	99	50 - 130	<0.1	ug/L	NC	30		
5493503	Dimethyl phthalate	2018/04/20	95	50 - 130	98	50 - 130	<0.1	ug/L	NC	30		
5493503	Fluoranthene	2018/04/20	106	50 - 130	107	50 - 130	<0.2	ug/L	NC	30		
5493503	Fluorene	2018/04/20	93	50 - 130	100	50 - 130	<0.2	ug/L	NC	30		
5493503	Indeno(1,2,3-cd)pyrene	2018/04/20	103	50 - 130	109	50 - 130	<0.1	ug/L	NC	30		
5493503	Naphthalene	2018/04/20	79	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5493503	p-Chloroaniline	2018/04/20	77	30 - 130	83	30 - 130	<1	ug/L	NC	30		
5493503	Pentachlorophenol	2018/04/20	92	50 - 130	112	50 - 130	<0.1	ug/L	NC	30		
5493503	Phenanthrene	2018/04/20	96	50 - 130	99	50 - 130	<0.1	ug/L	NC	30		
5493503	Phenol	2018/04/20	32	30 - 130	38	30 - 130	<0.5	ug/L	NC	30		
5493503	Pyrene	2018/04/20	106	50 - 130	109	50 - 130	<0.05	ug/L	NC	30		
5493559	Mercury (Hg)	2018/04/23	101	75 - 125	98	80 - 120	<0.0001	mg/L	NC	20		
5493616	Total Ammonia-N	2018/04/23	97	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
5493627	Total Ammonia-N	2018/04/23	97	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
5493857	Mercury (Hg)	2018/04/23	102	75 - 125	94	80 - 120	<0.0001	mg/L	NC	20		
5494006	Nitrate (N)	2018/04/21	99	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
5494006	Nitrite (N)	2018/04/21	100	80 - 120	100	80 - 120	<0.010	mg/L	NC	20		
5494062	F2 (C10-C16 Hydrocarbons)	2018/04/21	105	50 - 130	100	60 - 130	<100	ug/L	NC	30		
5494062	F3 (C16-C34 Hydrocarbons)	2018/04/21	108	50 - 130	104	60 - 130	<200	ug/L	NC	30		
5494062	F4 (C34-C50 Hydrocarbons)	2018/04/21	103	50 - 130	96	60 - 130	<200	ug/L	NC	30		
5494187	Dissolved Chloride (Cl)	2018/04/23	106	80 - 120	104	80 - 120	<1.0	mg/L	0.47	20		
5494205	Dissolved Sulphate (SO4)	2018/04/23	NC	75 - 125	106	80 - 120	<1.0	mg/L	0.068	20		
5494207	Orthophosphate (P)	2018/04/22	118	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
5494432	Total Organic Carbon (TOC)	2018/04/21	93	80 - 120	94	80 - 120	<0.50	mg/L	1.4	20		
5494460	Alkalinity (Total as CaCO3)	2018/04/21			95	85 - 115	<1.0	mg/L	1.4	20		
5494464	pH	2018/04/21			102	98 - 103			0.43	N/A		
5494467	Conductivity	2018/04/21			99	85 - 115	<1.0	umho/cm	0	25		
5494478	Fluoride (F-)	2018/04/21	99	80 - 120	99	80 - 120	<0.10	mg/L	4.7	20		
5496235	Total Ammonia-N	2018/04/25	100	75 - 125	104	80 - 120	<0.050	mg/L	NC	20		
5496423	Total Suspended Solids	2018/04/23					<10	mg/L	NC	25	98	85 - 115

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QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5497038	Total Dissolved Solids	2018/04/23					<10	mg/L	0	25	98	90 - 110
5497059	Total Dissolved Solids	2018/04/23					<10	mg/L	7.8	25	97	90 - 110
5497233	Dissolved Chloride (Cl)	2018/04/24	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.32	20		
5497243	Dissolved Sulphate (SO4)	2018/04/24	104	75 - 125	102	80 - 120	<1.0	mg/L	0.69	20		
5497254	Orthophosphate (P)	2018/04/24	102	75 - 125	102	80 - 120	<0.010	mg/L	4.4	25		
5497891	1,2,4-Trichlorobenzene	2018/04/24	57	40 - 130	75	40 - 130	<0.1	ug/L	NC	30		
5497891	1-Methylnaphthalene	2018/04/24	62	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5497891	2,4,5-Trichlorophenol	2018/04/24	82	50 - 130	109	50 - 130	<0.2	ug/L	NC	30		
5497891	2,4,6-Trichlorophenol	2018/04/24	73	50 - 130	104	50 - 130	<0.2	ug/L	NC	30		
5497891	2,4-Dichlorophenol	2018/04/24	60	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
5497891	2,4-Dimethylphenol	2018/04/24	33	30 - 130	63	30 - 130	<0.5	ug/L	NC	30		
5497891	2,4-Dinitrophenol	2018/04/24	128	30 - 130	127	30 - 130	<2	ug/L	NC	30		
5497891	2,4-Dinitrotoluene	2018/04/24	92	50 - 130	95	50 - 130	<0.3	ug/L	NC	30		
5497891	2,6-Dinitrotoluene	2018/04/24	85	50 - 130	96	50 - 130	<0.3	ug/L	NC	30		
5497891	2-Chlorophenol	2018/04/24	56	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		
5497891	2-Methylnaphthalene	2018/04/24	62	50 - 130	88	50 - 130	<0.2	ug/L	NC	30		
5497891	3,3'-Dichlorobenzidine	2018/04/24	109	30 - 130	112	30 - 130	<0.5	ug/L	NC	30		
5497891	Acenaphthene	2018/04/24	75	50 - 130	100	50 - 130	<0.2	ug/L	NC	30		
5497891	Acenaphthylene	2018/04/24	72	50 - 130	98	50 - 130	<0.2	ug/L	NC	30		
5497891	Anthracene	2018/04/24	87	50 - 130	93	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(a)anthracene	2018/04/24	105	50 - 130	107	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(a)pyrene	2018/04/24	100	50 - 130	99	50 - 130	<0.01	ug/L	NC	30		
5497891	Benzo(b/j)fluoranthene	2018/04/24	105	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(g,h,i)perylene	2018/04/24	117	50 - 130	126	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(k)fluoranthene	2018/04/24	95	50 - 130	92	50 - 130	<0.05	ug/L	NC	30		
5497891	Biphenyl	2018/04/24	62	50 - 130	85	50 - 130	<0.1	ug/L	NC	30		
5497891	Bis(2-chloroethyl)ether	2018/04/24	62	50 - 130	93	50 - 130	<0.5	ug/L	NC	30		
5497891	Bis(2-chloroisopropyl)ether	2018/04/24	61	50 - 130	91	50 - 130	<0.5	ug/L	NC	30		
5497891	Bis(2-ethylhexyl)phthalate	2018/04/24	109	50 - 130	114	50 - 130	<1	ug/L	NC	30		
5497891	Chrysene	2018/04/24	108	50 - 130	108	50 - 130	<0.05	ug/L	NC	30		
5497891	Dibenz(a,h)anthracene	2018/04/24	107	50 - 130	115	50 - 130	<0.1	ug/L	NC	30		

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

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Maxxam Job #: B887457
Report Date: 2018/04/25

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5497891	Diethyl phthalate	2018/04/24	94	50 - 130	99	50 - 130	<0.1	ug/L	NC	30		
5497891	Dimethyl phthalate	2018/04/24	88	50 - 130	100	50 - 130	<0.1	ug/L	NC	30		
5497891	Fluoranthene	2018/04/24	102	50 - 130	106	50 - 130	<0.2	ug/L	NC	30		
5497891	Fluorene	2018/04/24	81	50 - 130	97	50 - 130	<0.2	ug/L	NC	30		
5497891	Indeno(1,2,3-cd)pyrene	2018/04/24	102	50 - 130	109	50 - 130	<0.1	ug/L	NC	30		
5497891	Naphthalene	2018/04/24	63	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5497891	p-Chloroaniline	2018/04/24	61	30 - 130	100	30 - 130	<1	ug/L	NC	30		
5497891	Pentachlorophenol	2018/04/24	82	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
5497891	Phenanthrene	2018/04/24	92	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
5497891	Phenol	2018/04/24	24 (2)	30 - 130	39	30 - 130	<0.5	ug/L	NC	30		
5497891	Pyrene	2018/04/24	102	50 - 130	102	50 - 130	<0.05	ug/L	NC	30		
5497923	Fluoride (F-)	2018/04/24	96	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
5500182	Acidity	2018/04/25	96	80 - 120	102	80 - 120	<5.0	mg/L	8.1	25		
5500583	Acidity	2018/04/25	91	80 - 120	102	80 - 120	<5.0	mg/L	2.7	25		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was above the upper control limit for the matrix spike. The recovery was in control for the Spiked Blank. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(2) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B887457
Report Date: 2018/04/25

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Farhana Rahman

Gina Thompson, Inorganics General Chemistry Supervisor

Mike MacGillivray, Scientific Specialist (Inorganics)

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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ADDITIONAL COOLER TEMPEI

CHAIN-OF-CUSTODY RE

18-Apr-18 12:38
Deepthi Shaji
B887457

CHAIN OF CUSTODY #
C# 657867-01-01

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COOLER OBSERVATIONS:

MAXXAM JO

GK1 ENV-1105

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5	4	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	2	1	1
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	2	3	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	1	2	2
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3	2	1
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	2	2	2
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT	✓		TEMP	1	2	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Brenda Woodward	Brenda Woodward	2018/04/18	08:30

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 1	C# 657867-01-01
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COOLER OBSERVATIONS:

MAXXAM JOB#: B387437/4

	YES	NO				
COOLER ID 1						
PRESENT	✓		TEMP	1	1	1
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID 2						
PRESENT	✓		TEMP	0	2	1
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID 3						
PRESENT	✓		TEMP	0	1	0
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID 4						
PRESENT	✓		TEMP	3	1	3
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID 5						
PRESENT	✓		TEMP	1	2	1
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID 6						
PRESENT	✓		TEMP	0	1	0
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID 7						
PRESENT	✓		TEMP	1	0	1
INTACT	✓					
ICE PRESENT	✓			1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3

	YES	NO				
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
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INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
COOLER ID						
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Paramjeet	PARAMJEET SINGH	2016/04/18	12:33

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6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.maxxam.ca

STANTEC CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE INFORMATION:

Company Name: #9197 Stantec Consulting Ltd
Contact Name: Accounts Payable
Address: 300 Hagey Blvd Suite 100
Waterloo ON N2L 0A4
Phone: (519) 579-4410 x Fax: (519) 579-6733 x
Email: accounts.payable.invoices@stantec.com

REPORT INFORMATION(if differs from invoice):

Company Name: #18379 Stantec Consulting Ltd
Contact Name: Report - 160900764
Address: ON
Phone: Fax:
Email: aaron.warkentin@stantec.com, jamie.koch@stantec.co

PROJECT INFORMATION:

Quotation #: B48218
Task #: 200.400
Project #: 160900764
Profit Centre: 1609
Site #: Clarington TS - Private Well
Sampled By: JK

Laboratory Use Only:

Maxxam Job #:
Bottle Order #: 657867
COC #: C#657867-01-01
Project Manager: Deepthi Shaji

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity	Cr (VI) & Free CN	Fluoride & Turbidity	Mercury & TOC	Total Coliforms/ E. coli Background	TDS & TSS	RCAp - Comprehensive (Drinking Water) No filter	Reg 153 PCBs	Reg 153 VOCs & F1-F4	SVOCs	# of Bottles	Comments
1		WG-160900764-201804 17-JK1	Apr 17/18	1035	WG	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	Bacti samples
2		WG-160900764-201804 17-JK2		1152			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		Analyze as received
3		WG-160900764-201804 17-JK3		1253			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		per ~~[illegible]~~ quote
4		17-JK4		1400			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5		17-JK5		1435			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6		17-JK6		1517			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7		17-JK7		1620			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8																		
9																		
10																		

18-Apr-18 12:38
Deepthi Shaji
B887457
GK1 ENV-1105

REC'D IN PORT HOPE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED B	Time
Jamie Koch	18/04/17	1740	~~[illegible]~~	
			Deepthi Shaji PARAMEDICAL SINK	18/04/18 12:38

jars used and not submitted

Laboratory Use Only

Time Sensitive
Temperature (°C) on Recei: See ACTR

Custody Seal	Yes	No
Present		
Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT HTTP://MAXXAM.CA/WP-CONTENT/UPLOADS/ONTARIO-COC.PDF.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

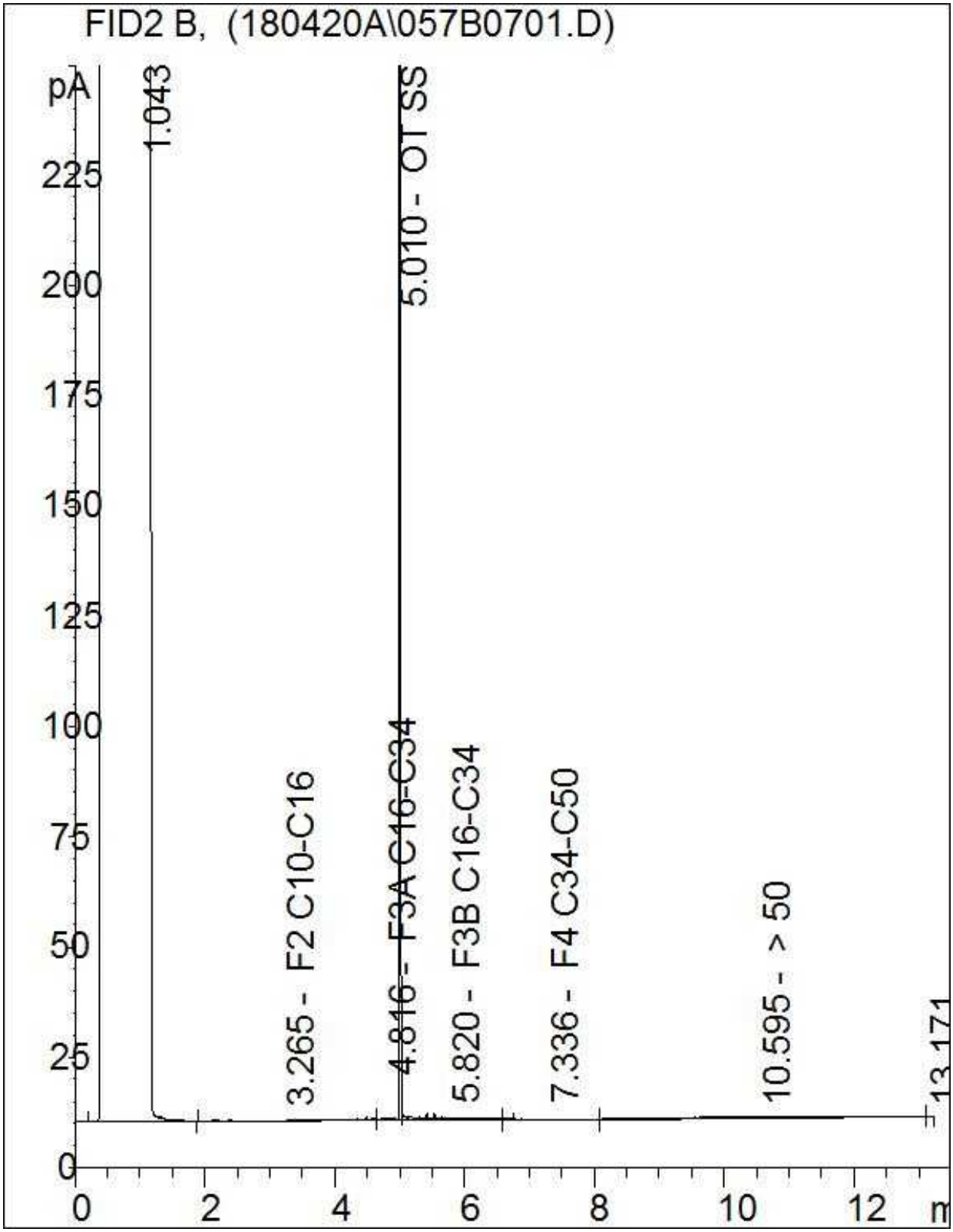
White: Maxxa Yellow: Client

SEE ACTR

MW# 480793

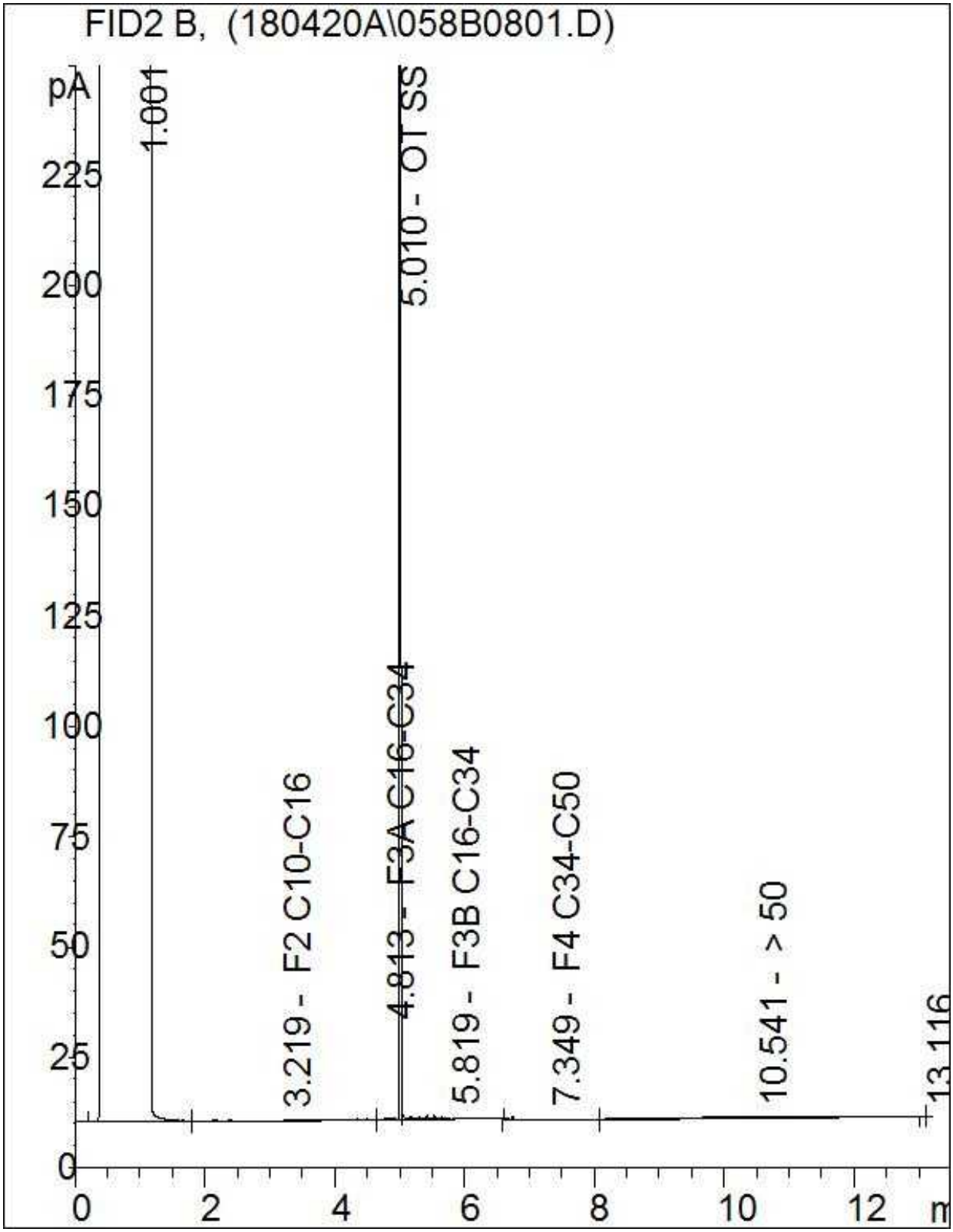
Maxxam Analytics International Corporation o/a Maxxam Analytics

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



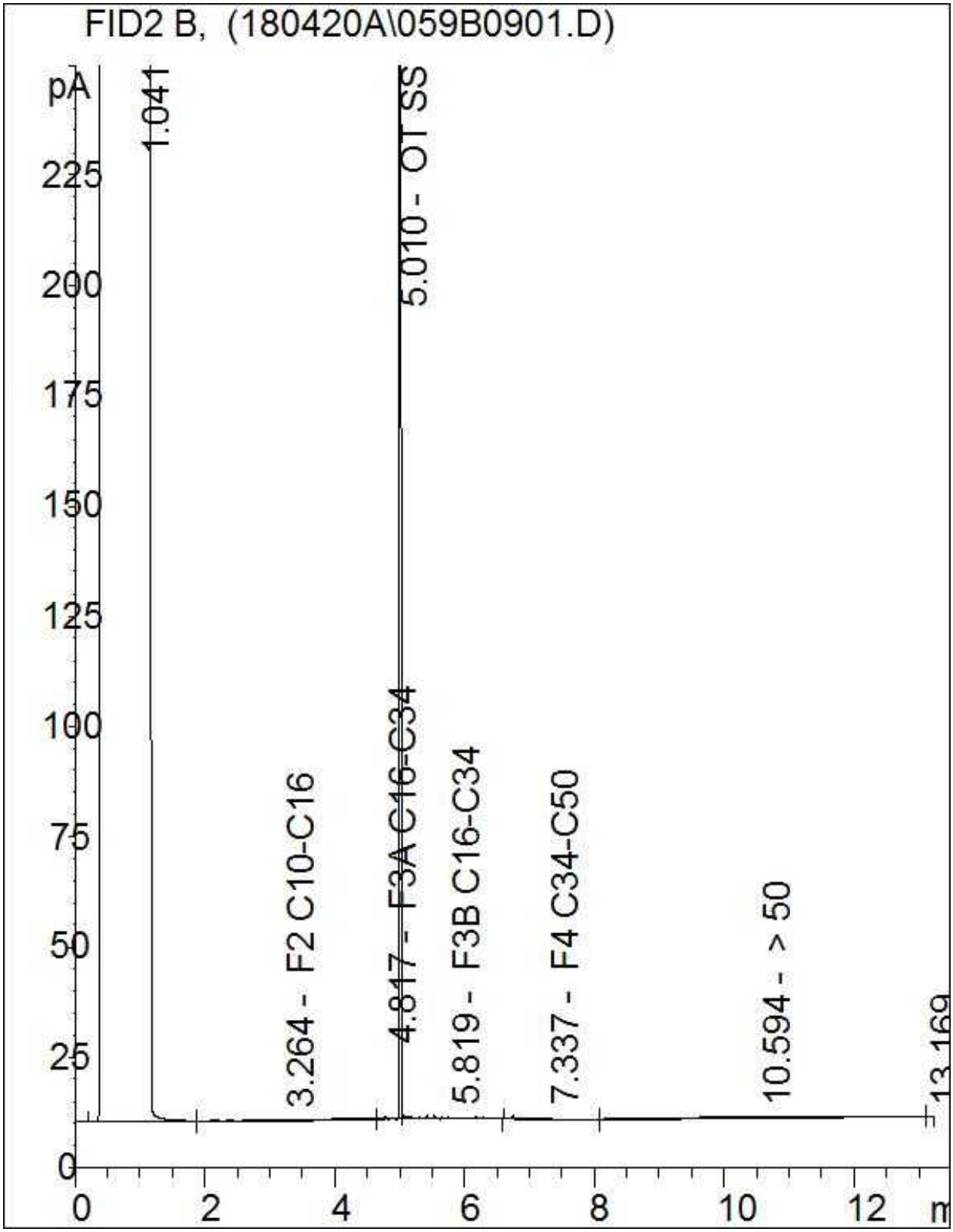
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



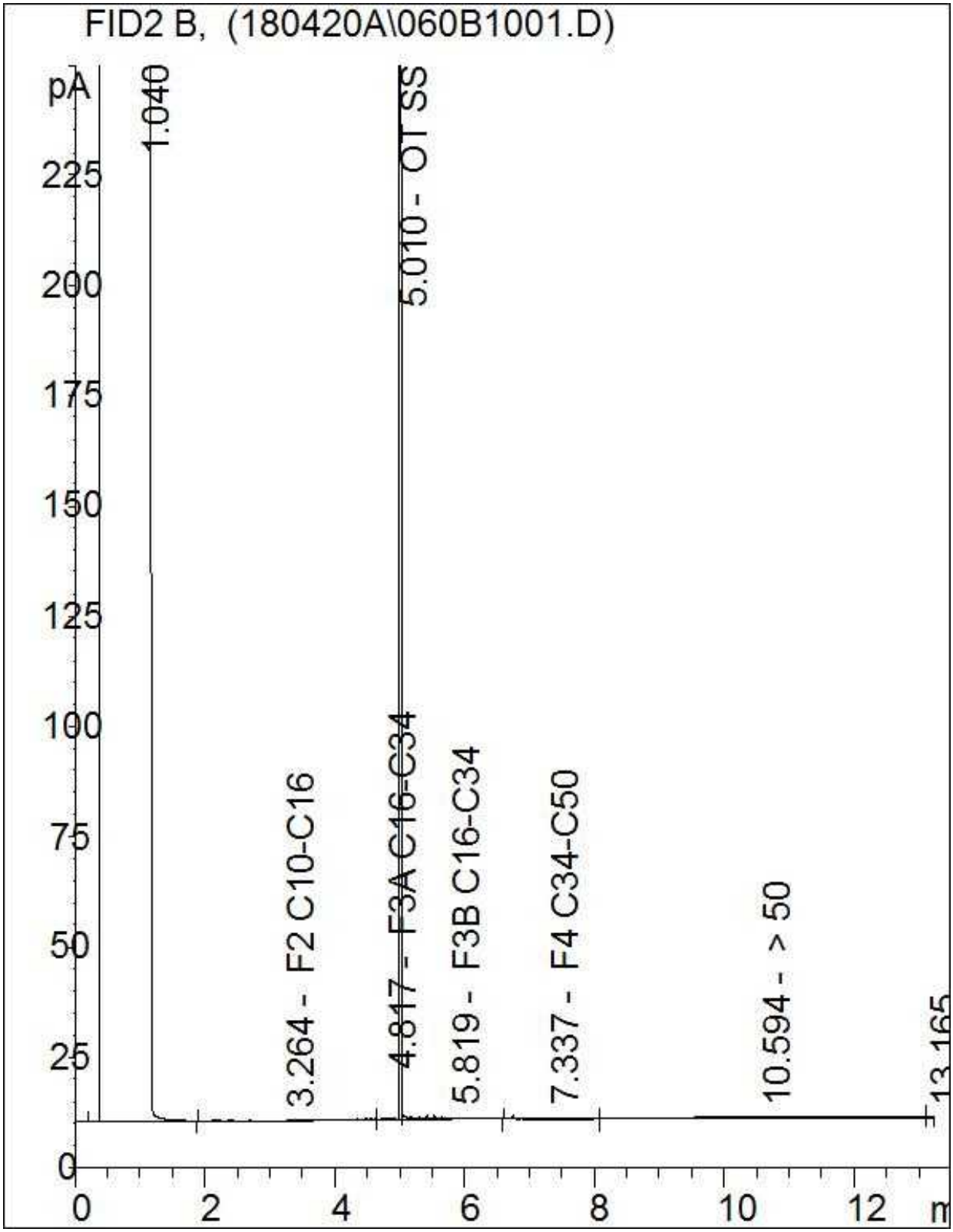
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

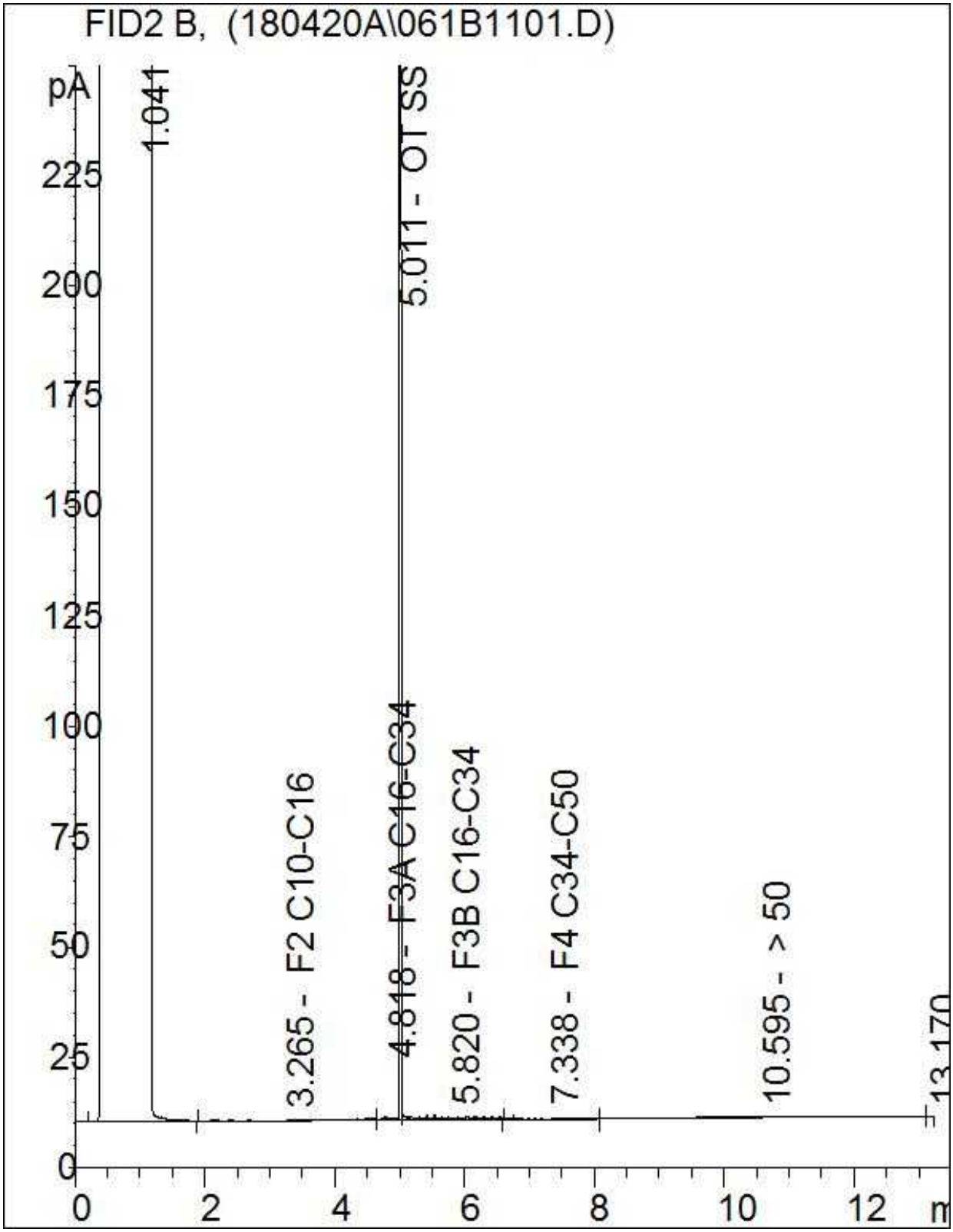


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B887457
Report Date: 2018/04/25
Maxxam Sample: GME359

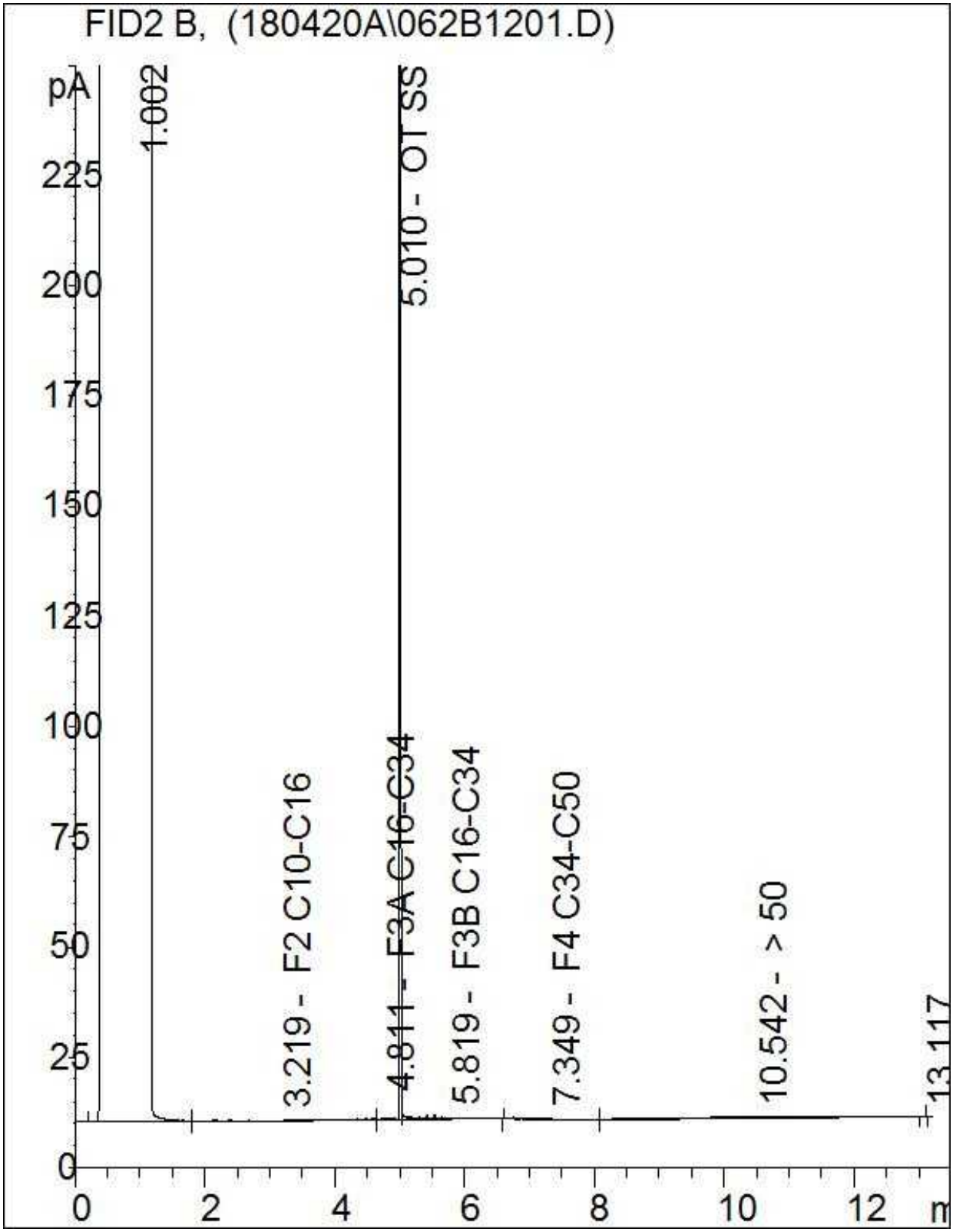
Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180417-JK4

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

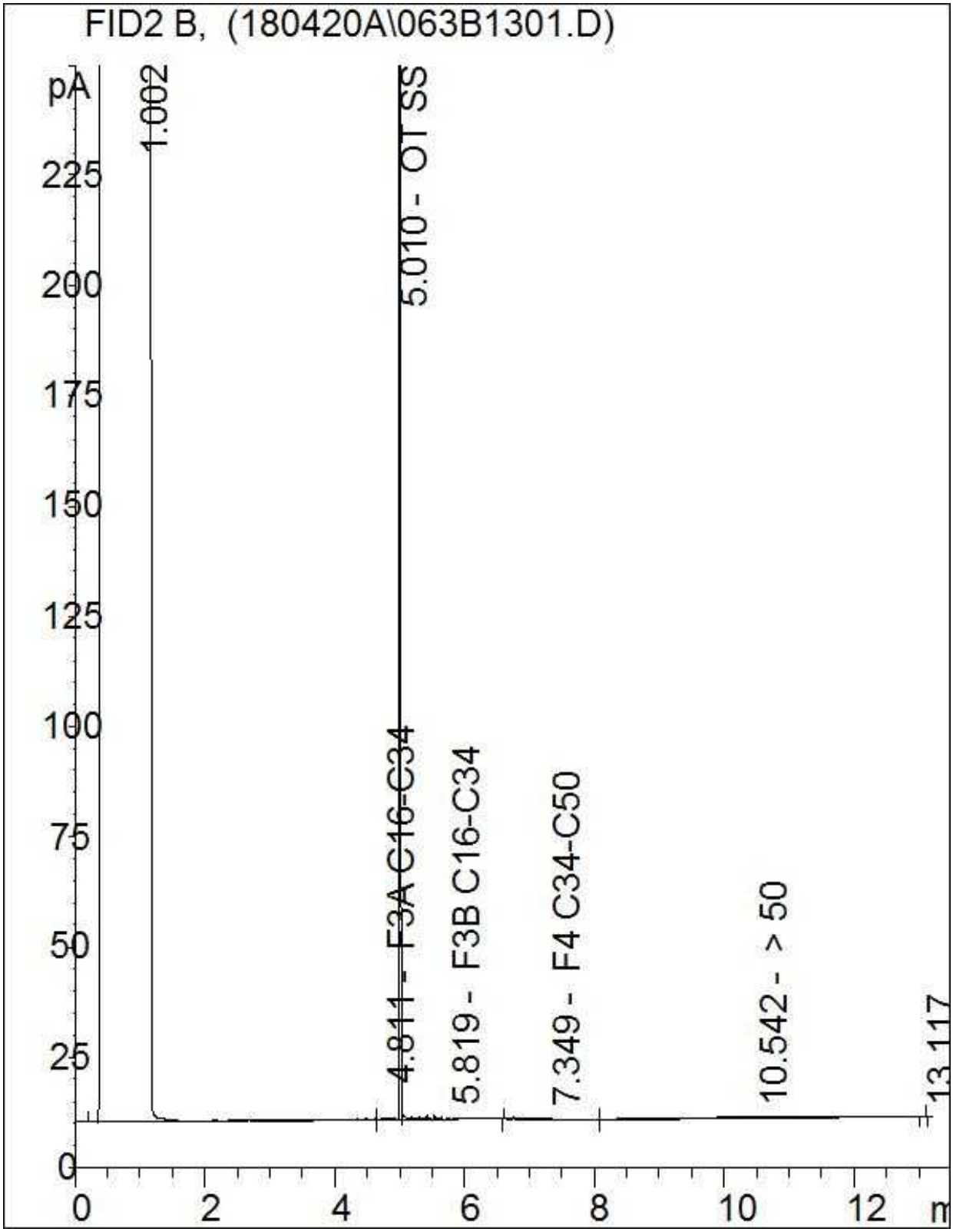


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B887457
Report Date: 2018/04/25
Maxxam Sample: GME361

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180417-JK6

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

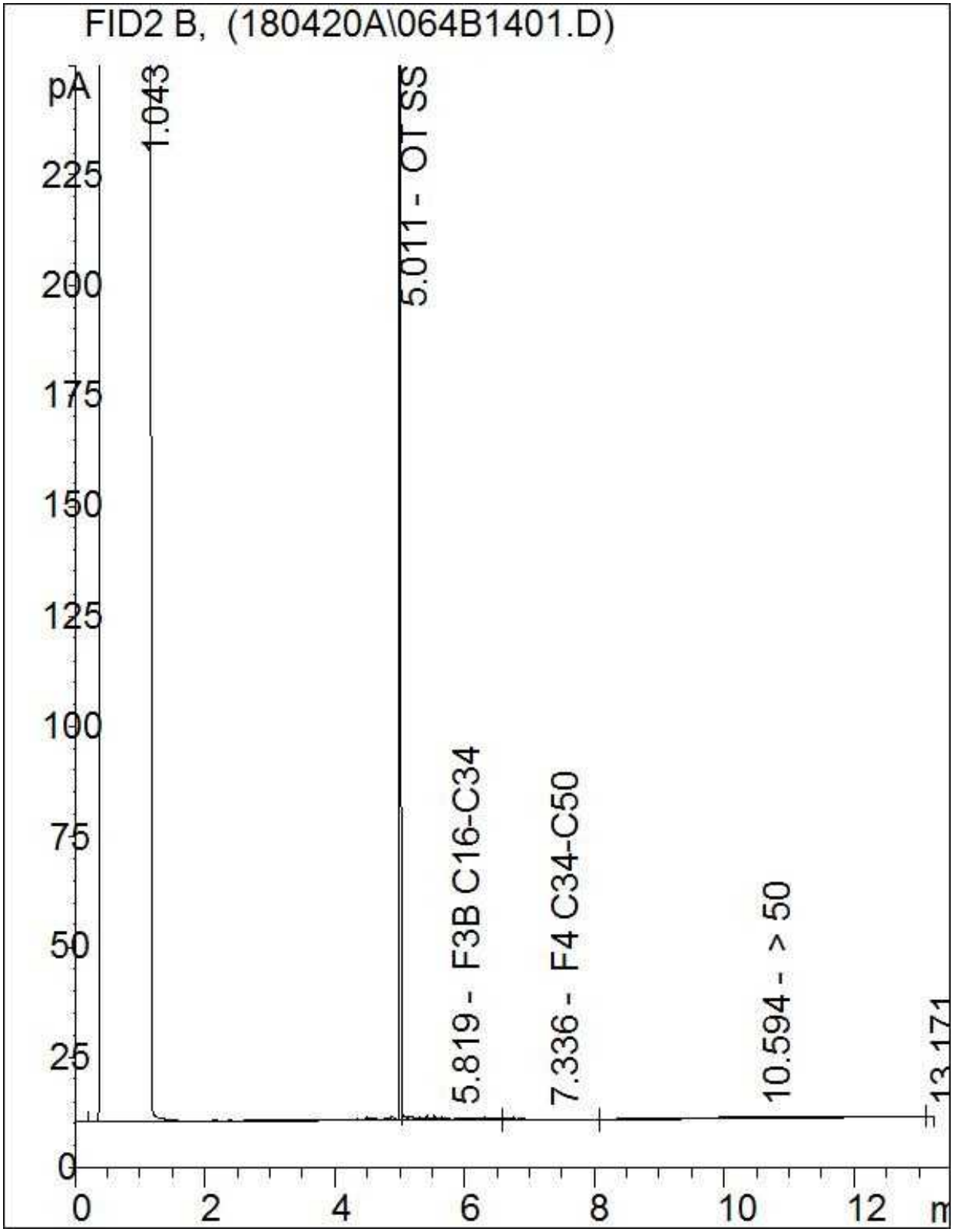


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B887457
Report Date: 2018/04/25
Maxxam Sample: GME362

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180417-JK7

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.