Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Your C.O.C. #: 686537-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/10/17
Report #: R5445001
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q6729
Received: 2018/10/10, 09:00

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	2	N/A	2018/10/15	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	7	N/A	2018/10/16	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2018/10/12	2018/10/15	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	7	2018/10/12	2018/10/16	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	9	N/A	2018/10/17		SM 22 2310
Alkalinity	9	N/A	2018/10/13	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	9	N/A	2018/10/15	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	9	N/A	2018/10/15		EPA 8260C m
Chloride by Automated Colourimetry	9	N/A	2018/10/12	CAM SOP-00463	EPA 325.2 m
Conductivity	9	N/A	2018/10/15	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	9	N/A	2018/10/15	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	8	N/A	2018/10/11	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	N/A	2018/10/16	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (2)	2	N/A	2018/10/11	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (2)	3	N/A	2018/10/12	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (2)	4	N/A	2018/10/13	CAM SOP-00446	SM 23 5310 B m
Petroleum Hydrocarbons F2-F4 in Water (3)	9	2018/10/12	2018/10/14	CAM SOP-00316	CCME PHC-CWS m
Fluoride	9	2018/10/11	2018/10/13	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	9	N/A	2018/10/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	1	2018/10/12	2018/10/15	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	8	2018/10/15	2018/10/16	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (4)	6	N/A	2018/10/12	CAM SOP-00447	EPA 6020B m
Metals Analysis by ICPMS (as received) (4)	3	N/A	2018/10/15	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	9	N/A	2018/10/15		
Anion and Cation Sum	9	N/A	2018/10/15		
Total Coliforms/ E. coli, CFU/100mL	9	N/A	2018/10/10	CAM SOP-00551	MOE E3407
Total Ammonia-N	9	N/A	2018/10/17	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (5)	9	N/A	2018/10/12	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	9	2018/10/11	2018/10/12	CAM SOP-00309	EPA 8082A m

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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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q6729
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Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
pH	9	N/A	2018/10/13	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	9	N/A	2018/10/12	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	9	N/A	2018/10/15		
Sat. pH and Langelier Index (@ 4C)	9	N/A	2018/10/15		
Sulphate by Automated Colourimetry	9	N/A	2018/10/12	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	9	N/A	2018/10/15		
Total Dissolved Solids	4	2018/10/12	2018/10/15	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	5	2018/10/15	2018/10/16	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (6)	4	N/A	2018/10/13	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (6)	5	N/A	2018/10/14	CAM SOP-00446	SM 23 5310B m
Total Suspended Solids	9	2018/10/12	2018/10/15	CAM SOP-00428	SM 23 2540D m
Turbidity	9	N/A	2018/10/11	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	9	N/A	2018/10/13	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. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

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. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

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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.

(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

Colby Coutu
Project Manager Assistant
17 Oct 2018 16:42:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: RGracian@maxxam.ca
Phone# (905) 817-5700

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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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Report Date: 2018/10/17

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC405			HZC405		
Sampling Date		2018/10/09 09:26			2018/10/09 09:26		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK1 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	3.30	N/A	5774811			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	130	1.0	5774807			
Calculated TDS	mg/L	190	1.0	5774814			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.5	1.0	5774807			
Cation Sum	me/L	3.21	N/A	5774811			
Hardness (CaCO3)	mg/L	91	1.0	5774809			
Ion Balance (% Difference)	%	1.35	N/A	5774810			
Langelier Index (@ 20C)	N/A	0.0960		5774812			
Langelier Index (@ 4C)	N/A	-0.155		5774813			
Saturation pH (@ 20C)	N/A	8.01		5774812			
Saturation pH (@ 4C)	N/A	8.26		5774813			
Inorganics							
Total Ammonia-N	mg/L	0.15	0.050	5778289			
Conductivity	umho/cm	300	1.0	5777739			
Dissolved Organic Carbon	mg/L	0.65	0.50	5776157			
Orthophosphate (P)	mg/L	<0.010	0.010	5777718			
pH	pH	8.11		5777727			
Dissolved Sulphate (SO4)	mg/L	33	1.0	5777717			
Alkalinity (Total as CaCO3)	mg/L	130	1.0	5777726			
Dissolved Chloride (Cl-)	mg/L	2.0	1.0	5777713			
Nitrite (N)	mg/L	<0.010	0.010	5777628	<0.010	0.010	5777628
Nitrate (N)	mg/L	<0.10	0.10	5777628	<0.10	0.10	5777628
Metals							
. Aluminum (Al)	mg/L	0.016	0.0050	5776619			
. Antimony (Sb)	mg/L	<0.00050	0.00050	5776619			
. Arsenic (As)	mg/L	0.0030	0.0010	5776619			
. Barium (Ba)	mg/L	0.033	0.0020	5776619			
. Beryllium (Be)	mg/L	<0.00050	0.00050	5776619			
. Boron (B)	mg/L	0.075	0.010	5776619			

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

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC405			HZC405		
Sampling Date		2018/10/09 09:26			2018/10/09 09:26		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK1 Lab-Dup**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5776619			
. Calcium (Ca)	mg/L	18	0.20	5776619			
. Chromium (Cr)	mg/L	<0.0050	0.0050	5776619			
. Cobalt (Co)	mg/L	<0.00050	0.00050	5776619			
. Copper (Cu)	mg/L	<0.0010	0.0010	5776619			
. Iron (Fe)	mg/L	<0.10	0.10	5776619			
. Lead (Pb)	mg/L	<0.00050	0.00050	5776619			
. Magnesium (Mg)	mg/L	11	0.050	5776619			
. Manganese (Mn)	mg/L	0.0083	0.0020	5776619			
. Molybdenum (Mo)	mg/L	0.0051	0.00050	5776619			
. Nickel (Ni)	mg/L	<0.0010	0.0010	5776619			
. Phosphorus (P)	mg/L	<0.10	0.10	5776619			
. Potassium (K)	mg/L	0.80	0.20	5776619			
. Selenium (Se)	mg/L	<0.0020	0.0020	5776619			
. Silicon (Si)	mg/L	6.6	0.050	5776619			
. Silver (Ag)	mg/L	<0.00010	0.00010	5776619			
. Sodium (Na)	mg/L	31	0.10	5776619			
. Strontium (Sr)	mg/L	0.37	0.0010	5776619			
. Thallium (Tl)	mg/L	<0.000050	0.000050	5776619			
. Titanium (Ti)	mg/L	<0.0050	0.0050	5776619			
. Uranium (U)	mg/L	0.00047	0.00010	5776619			
. Vanadium (V)	mg/L	<0.00050	0.00050	5776619			
. Zinc (Zn)	mg/L	<0.0050	0.0050	5776619			
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5776619			

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Maxxam Job #: B8Q6729
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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		HZC406			HZC407		
Sampling Date		2018/10/09 10:25			2018/10/09 12:05		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK2**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK3**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	5.81	N/A	5774811	17.9	N/A	5774811
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	220	1.0	5774807	310	1.0	5774807
Calculated TDS	mg/L	310	1.0	5774814	1000	1.0	5774814
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.8	1.0	5774807	1.9	1.0	5774807
Cation Sum	me/L	5.70	N/A	5774811	18.1	N/A	5774811
Hardness (CaCO3)	mg/L	270	1.0	5774809	410	1.0	5774809
Ion Balance (% Difference)	%	0.960	N/A	5774810	0.720	N/A	5774810
Langelier Index (@ 20C)	N/A	0.735		5774812	0.840		5774812
Langelier Index (@ 4C)	N/A	0.486		5774813	0.594		5774813
Saturation pH (@ 20C)	N/A	7.22		5774812	6.99		5774812
Saturation pH (@ 4C)	N/A	7.47		5774813	7.23		5774813
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5778289	0.062	0.050	5778289
Conductivity	umho/cm	520	1.0	5777739	1800	1.0	5777739
Dissolved Organic Carbon	mg/L	0.59	0.50	5776157	1.1	0.50	5777895
Orthophosphate (P)	mg/L	<0.010	0.010	5777718	<0.010	0.010	5777718
pH	pH	7.96		5777727	7.83		5777727
Dissolved Sulphate (SO4)	mg/L	53	1.0	5777717	31	1.0	5777717
Alkalinity (Total as CaCO3)	mg/L	220	1.0	5777726	310	1.0	5777726
Dissolved Chloride (Cl-)	mg/L	13	1.0	5777713	390	4.0	5777713
Nitrite (N)	mg/L	<0.010	0.010	5777628	<0.010	0.010	5777628
Nitrate (N)	mg/L	<0.10	0.10	5777628	2.93	0.10	5777628
Metals							
. Aluminum (Al)	mg/L	<0.0050	0.0050	5776619	<0.0050	0.0050	5776619
. Antimony (Sb)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Arsenic (As)	mg/L	<0.0010	0.0010	5776619	<0.0010	0.0010	5776619
. Barium (Ba)	mg/L	0.078	0.0020	5776619	0.15	0.0020	5776619
. Beryllium (Be)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Boron (B)	mg/L	<0.010	0.010	5776619	<0.010	0.010	5776619
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5776619	<0.00010	0.00010	5776619

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Maxxam ID		HZC406			HZC407		
Sampling Date		2018/10/09 10:25			2018/10/09 12:05		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK2**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK3**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	73	0.20	5776619	120	0.20	5776619
. Chromium (Cr)	mg/L	<0.0050	0.0050	5776619	<0.0050	0.0050	5776619
. Cobalt (Co)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Copper (Cu)	mg/L	<0.0010	0.0010	5776619	0.0032	0.0010	5776619
. Iron (Fe)	mg/L	2.6	0.10	5776619	<0.10	0.10	5776619
. Lead (Pb)	mg/L	<0.00050	0.00050	5776619	0.0014	0.00050	5776619
. Magnesium (Mg)	mg/L	21	0.050	5776619	29	0.050	5776619
. Manganese (Mn)	mg/L	0.061	0.0020	5776619	<0.0020	0.0020	5776619
. Molybdenum (Mo)	mg/L	0.0010	0.00050	5776619	<0.00050	0.00050	5776619
. Nickel (Ni)	mg/L	<0.0010	0.0010	5776619	<0.0010	0.0010	5776619
. Phosphorus (P)	mg/L	<0.10	0.10	5776619	<0.10	0.10	5776619
. Potassium (K)	mg/L	1.2	0.20	5776619	2.2	0.20	5776619
. Selenium (Se)	mg/L	<0.0020	0.0020	5776619	<0.0020	0.0020	5776619
. Silicon (Si)	mg/L	4.7	0.050	5776619	7.8	0.050	5776619
. Silver (Ag)	mg/L	<0.00010	0.00010	5776619	<0.00010	0.00010	5776619
. Sodium (Na)	mg/L	4.8	0.10	5776619	230	0.10	5776619
. Strontium (Sr)	mg/L	0.22	0.0010	5776619	0.39	0.0010	5776619
. Thallium (Tl)	mg/L	<0.000050	0.000050	5776619	<0.000050	0.000050	5776619
. Titanium (Ti)	mg/L	<0.0050	0.0050	5776619	<0.0050	0.0050	5776619
. Uranium (U)	mg/L	<0.00010	0.00010	5776619	0.00072	0.00010	5776619
. Vanadium (V)	mg/L	<0.00050	0.00050	5776619	0.00054	0.00050	5776619
. Zinc (Zn)	mg/L	<0.0050	0.0050	5776619	<0.0050	0.0050	5776619
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5776619	<0.0010	0.0010	5776619

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC407			HZC408		
Sampling Date		2018/10/09 12:05			2018/10/09 12:52		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK3 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK4**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L				12.0	N/A	5774811
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				390	1.0	5774807
Calculated TDS	mg/L				630	1.0	5774814
Carb. Alkalinity (calc. as CaCO3)	mg/L				2.2	1.0	5774807
Cation Sum	me/L				11.6	N/A	5774811
Hardness (CaCO3)	mg/L				450	1.0	5774809
Ion Balance (% Difference)	%				1.84	N/A	5774810
Langelier Index (@ 20C)	N/A				1.02		5774812
Langelier Index (@ 4C)	N/A				0.771		5774813
Saturation pH (@ 20C)	N/A				6.77		5774812
Saturation pH (@ 4C)	N/A				7.01		5774813
Inorganics							
Total Ammonia-N	mg/L				0.064	0.050	5778289
Conductivity	umho/cm				1000	1.0	5777739
Dissolved Organic Carbon	mg/L	1.1	0.50	5777895	1.7	0.50	5776157
Orthophosphate (P)	mg/L				<0.010	0.010	5777718
pH	pH				7.78		5777727
Dissolved Sulphate (SO4)	mg/L				34	1.0	5777717
Alkalinity (Total as CaCO3)	mg/L				390	1.0	5777726
Dissolved Chloride (Cl-)	mg/L				120	1.0	5777713
Nitrite (N)	mg/L				<0.010	0.010	5777628
Nitrate (N)	mg/L				1.33	0.10	5777628
Metals							
. Aluminum (Al)	mg/L				<0.0050	0.0050	5776619
. Antimony (Sb)	mg/L				<0.00050	0.00050	5776619
. Arsenic (As)	mg/L				<0.0010	0.0010	5776619
. Barium (Ba)	mg/L				0.090	0.0020	5776619
. Beryllium (Be)	mg/L				<0.00050	0.00050	5776619
. Boron (B)	mg/L				0.028	0.010	5776619

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

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC407			HZC408		
Sampling Date		2018/10/09 12:05			2018/10/09 12:52		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK3 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK4**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L				<0.00010	0.00010	5776619
. Calcium (Ca)	mg/L				140	0.20	5776619
. Chromium (Cr)	mg/L				<0.0050	0.0050	5776619
. Cobalt (Co)	mg/L				<0.00050	0.00050	5776619
. Copper (Cu)	mg/L				0.0092	0.0010	5776619
. Iron (Fe)	mg/L				<0.10	0.10	5776619
. Lead (Pb)	mg/L				<0.00050	0.00050	5776619
. Magnesium (Mg)	mg/L				26	0.050	5776619
. Manganese (Mn)	mg/L				<0.0020	0.0020	5776619
. Molybdenum (Mo)	mg/L				<0.00050	0.00050	5776619
. Nickel (Ni)	mg/L				<0.0010	0.0010	5776619
. Phosphorus (P)	mg/L				<0.10	0.10	5776619
. Potassium (K)	mg/L				1.9	0.20	5776619
. Selenium (Se)	mg/L				<0.0020	0.0020	5776619
. Silicon (Si)	mg/L				7.6	0.050	5776619
. Silver (Ag)	mg/L				<0.00010	0.00010	5776619
. Sodium (Na)	mg/L				60	0.10	5776619
. Strontium (Sr)	mg/L				0.35	0.0010	5776619
. Thallium (Tl)	mg/L				<0.000050	0.000050	5776619
. Titanium (Ti)	mg/L				<0.0050	0.0050	5776619
. Uranium (U)	mg/L				0.0013	0.00010	5776619
. Vanadium (V)	mg/L				<0.00050	0.00050	5776619
. Zinc (Zn)	mg/L				0.011	0.0050	5776619
. Zirconium (Zr)	mg/L				<0.0010	0.0010	5776619

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC409			HZC409		
Sampling Date		2018/10/09 13:55			2018/10/09 13:55		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK5**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK5 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	9.53	N/A	5774811			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	400	1.0	5774807			
Calculated TDS	mg/L	510	1.0	5774814			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.6	1.0	5774807			
Cation Sum	me/L	9.22	N/A	5774811			
Hardness (CaCO3)	mg/L	410	1.0	5774809			
Ion Balance (% Difference)	%	1.67	N/A	5774810			
Langelier Index (@ 20C)	N/A	0.860		5774812			
Langelier Index (@ 4C)	N/A	0.612		5774813			
Saturation pH (@ 20C)	N/A	6.76		5774812			
Saturation pH (@ 4C)	N/A	7.01		5774813			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5778289			
Conductivity	umho/cm	750	1.0	5777739			
Dissolved Organic Carbon	mg/L	1.3	0.50	5777895			
Orthophosphate (P)	mg/L	<0.010	0.010	5777718			
pH	pH	7.62		5777727			
Dissolved Sulphate (SO4)	mg/L	22	1.0	5777717			
Alkalinity (Total as CaCO3)	mg/L	400	1.0	5777726			
Dissolved Chloride (Cl-)	mg/L	25	1.0	5777713			
Nitrite (N)	mg/L	<0.010	0.010	5777628			
Nitrate (N)	mg/L	5.35	0.10	5777628			
Metals							
. Aluminum (Al)	mg/L	0.0061	0.0050	5776619	0.0059	0.0050	5776619
. Antimony (Sb)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Arsenic (As)	mg/L	<0.0010	0.0010	5776619	<0.0010	0.0010	5776619
. Barium (Ba)	mg/L	0.069	0.0020	5776619	0.071	0.0020	5776619
. Beryllium (Be)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Boron (B)	mg/L	0.012	0.010	5776619	0.012	0.010	5776619

RDL = Reportable Detection Limit
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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC409			HZC409		
Sampling Date		2018/10/09 13:55			2018/10/09 13:55		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK5**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK5 Lab-Dup**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5776619	<0.00010	0.00010	5776619
. Calcium (Ca)	mg/L	130	0.20	5776619	130	0.20	5776619
. Chromium (Cr)	mg/L	<0.0050	0.0050	5776619	<0.0050	0.0050	5776619
. Cobalt (Co)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Copper (Cu)	mg/L	0.021	0.0010	5776619	0.022	0.0010	5776619
. Iron (Fe)	mg/L	<0.10	0.10	5776619	<0.10	0.10	5776619
. Lead (Pb)	mg/L	0.00099	0.00050	5776619	0.0010	0.00050	5776619
. Magnesium (Mg)	mg/L	23	0.050	5776619	24	0.050	5776619
. Manganese (Mn)	mg/L	<0.0020	0.0020	5776619	<0.0020	0.0020	5776619
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Nickel (Ni)	mg/L	<0.0010	0.0010	5776619	<0.0010	0.0010	5776619
. Phosphorus (P)	mg/L	<0.10	0.10	5776619	<0.10	0.10	5776619
. Potassium (K)	mg/L	2.8	0.20	5776619	2.9	0.20	5776619
. Selenium (Se)	mg/L	<0.0020	0.0020	5776619	<0.0020	0.0020	5776619
. Silicon (Si)	mg/L	10	0.050	5776619	10	0.050	5776619
. Silver (Ag)	mg/L	<0.00010	0.00010	5776619	<0.00010	0.00010	5776619
. Sodium (Na)	mg/L	20	0.10	5776619	21	0.10	5776619
. Strontium (Sr)	mg/L	0.26	0.0010	5776619	0.27	0.0010	5776619
. Thallium (Tl)	mg/L	<0.000050	0.000050	5776619	<0.000050	0.000050	5776619
. Titanium (Ti)	mg/L	<0.0050	0.0050	5776619	<0.0050	0.0050	5776619
. Uranium (U)	mg/L	0.00076	0.00010	5776619	0.00081	0.00010	5776619
. Vanadium (V)	mg/L	<0.00050	0.00050	5776619	<0.00050	0.00050	5776619
. Zinc (Zn)	mg/L	0.0092	0.0050	5776619	0.0096	0.0050	5776619
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5776619	<0.0010	0.0010	5776619

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC410		HZC411		
Sampling Date		2018/10/09 14:32		2018/10/09 15:13		
COC Number		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK6**	**QC Batch**	**WG-160900764-20181009-JK7**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	me/L	4.61	5774811	4.51	N/A	5774811
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210	5774807	200	1.0	5774807
Calculated TDS	mg/L	250	5774814	240	1.0	5774814
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.9	5774807	2.3	1.0	5774807
Cation Sum	me/L	4.50	5774811	4.34	N/A	5774811
Hardness (CaCO3)	mg/L	200	5774809	200	1.0	5774809
Ion Balance (% Difference)	%	1.23	5774810	1.97	N/A	5774810
Langelier Index (@ 20C)	N/A	0.677	5774812	0.741		5774812
Langelier Index (@ 4C)	N/A	0.427	5774813	0.492		5774813
Saturation pH (@ 20C)	N/A	7.31	5774812	7.34		5774812
Saturation pH (@ 4C)	N/A	7.56	5774813	7.59		5774813
Inorganics						
Total Ammonia-N	mg/L	0.17	5778289	0.12	0.050	5778289
Conductivity	umho/cm	350	5777739	350	1.0	5777739
Dissolved Organic Carbon	mg/L	1.3	5777895	1.4	0.50	5776157
Orthophosphate (P)	mg/L	<0.010	5777718	<0.010	0.010	5777718
pH	pH	7.99	5777727	8.09		5777727
Dissolved Sulphate (SO4)	mg/L	14	5777717	16	1.0	5777717
Alkalinity (Total as CaCO3)	mg/L	210	5777726	210	1.0	5777726
Dissolved Chloride (Cl-)	mg/L	2.0	5777713	2.4	1.0	5777713
Nitrite (N)	mg/L	<0.010	5777628	<0.010	0.010	5777628
Nitrate (N)	mg/L	<0.10	5777628	<0.10	0.10	5777628
Metals						
. Aluminum (Al)	mg/L	<0.0050	5776619	<0.0050	0.0050	5776619
. Antimony (Sb)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Arsenic (As)	mg/L	<0.0010	5776619	<0.0010	0.0010	5776619
. Barium (Ba)	mg/L	0.18	5776619	0.13	0.0020	5776619
. Beryllium (Be)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Boron (B)	mg/L	0.013	5776619	0.011	0.010	5776619
. Cadmium (Cd)	mg/L	<0.00010	5776619	<0.00010	0.00010	5776619

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

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC410		HZC411		
Sampling Date		2018/10/09 14:32		2018/10/09 15:13		
COC Number		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK6**	**QC Batch**	**WG-160900764-20181009-JK7**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	56	5776619	56	0.20	5776619
. Chromium (Cr)	mg/L	<0.0050	5776619	<0.0050	0.0050	5776619
. Cobalt (Co)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Copper (Cu)	mg/L	0.0019	5776619	<0.0010	0.0010	5776619
. Iron (Fe)	mg/L	4.5	5776619	1.3	0.10	5776619
. Lead (Pb)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Magnesium (Mg)	mg/L	15	5776619	16	0.050	5776619
. Manganese (Mn)	mg/L	0.024	5776619	0.036	0.0020	5776619
. Molybdenum (Mo)	mg/L	0.00051	5776619	0.00098	0.00050	5776619
. Nickel (Ni)	mg/L	<0.0010	5776619	<0.0010	0.0010	5776619
. Phosphorus (P)	mg/L	<0.10	5776619	<0.10	0.10	5776619
. Potassium (K)	mg/L	0.98	5776619	0.90	0.20	5776619
. Selenium (Se)	mg/L	<0.0020	5776619	<0.0020	0.0020	5776619
. Silicon (Si)	mg/L	12	5776619	9.2	0.050	5776619
. Silver (Ag)	mg/L	<0.00010	5776619	<0.00010	0.00010	5776619
. Sodium (Na)	mg/L	4.8	5776619	4.4	0.10	5776619
. Strontium (Sr)	mg/L	0.23	5776619	0.23	0.0010	5776619
. Thallium (Tl)	mg/L	<0.000050	5776619	<0.000050	0.000050	5776619
. Titanium (Ti)	mg/L	<0.0050	5776619	<0.0050	0.0050	5776619
. Uranium (U)	mg/L	<0.00010	5776619	<0.00010	0.00010	5776619
. Vanadium (V)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Zinc (Zn)	mg/L	<0.0050	5776619	<0.0050	0.0050	5776619
. Zirconium (Zr)	mg/L	<0.0010	5776619	<0.0010	0.0010	5776619

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Maxxam Job #: B8Q6729
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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		HZC412		HZC413		
Sampling Date		2018/10/09 16:10		2018/10/09 16:48		
COC Number		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK8**	**QC Batch**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Calculated Parameters						
Anion Sum	me/L	4.17	5774811	7.63	N/A	5774811
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	190	5774807	320	1.0	5774807
Calculated TDS	mg/L	230	5774814	400	1.0	5774814
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.9	5774807	2.0	1.0	5774807
Cation Sum	me/L	4.12	5774811	7.20	N/A	5774811
Hardness (CaCO3)	mg/L	190	5774809	340	1.0	5774809
Ion Balance (% Difference)	%	0.590	5774810	2.88	N/A	5774810
Langelier Index (@ 20C)	N/A	0.589	5774812	0.955		5774812
Langelier Index (@ 4C)	N/A	0.340	5774813	0.706		5774813
Saturation pH (@ 20C)	N/A	7.44	5774812	6.87		5774812
Saturation pH (@ 4C)	N/A	7.69	5774813	7.12		5774813
Inorganics						
Total Ammonia-N	mg/L	0.16	5778289	0.062	0.050	5778289
Conductivity	umho/cm	330	5777739	650	1.0	5777739
Dissolved Organic Carbon	mg/L	0.75	5777895	1.1	0.50	5776157
Orthophosphate (P)	mg/L	<0.010	5777718	<0.010	0.010	5777718
pH	pH	8.03	5777727	7.82		5777727
Dissolved Sulphate (SO4)	mg/L	11	5777717	17	1.0	5777717
Alkalinity (Total as CaCO3)	mg/L	190	5777726	320	1.0	5777726
Dissolved Chloride (Cl-)	mg/L	2.0	5777713	15	1.0	5777713
Nitrite (N)	mg/L	<0.010	5777628	<0.010	0.010	5777628
Nitrate (N)	mg/L	<0.10	5777628	5.16	0.10	5777628
Metals						
. Aluminum (Al)	mg/L	0.0069	5776619	0.0072	0.0050	5776619
. Antimony (Sb)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Arsenic (As)	mg/L	<0.0010	5776619	<0.0010	0.0010	5776619
. Barium (Ba)	mg/L	0.17	5776619	0.044	0.0020	5776619
. Beryllium (Be)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Boron (B)	mg/L	0.019	5776619	<0.010	0.010	5776619
. Cadmium (Cd)	mg/L	<0.00010	5776619	<0.00010	0.00010	5776619

RDL = Reportable Detection Limit
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N/A = Not Applicable

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Maxxam Job #: B8Q6729
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Stantec Consulting Ltd
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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		HZC412		HZC413		
Sampling Date		2018/10/09 16:10		2018/10/09 16:48		
COC Number		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK8**	**QC Batch**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	49	5776619	110	0.20	5776619
. Chromium (Cr)	mg/L	<0.0050	5776619	<0.0050	0.0050	5776619
. Cobalt (Co)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Copper (Cu)	mg/L	0.031	5776619	0.016	0.0010	5776619
. Iron (Fe)	mg/L	1.8	5776619	<0.10	0.10	5776619
. Lead (Pb)	mg/L	0.0057	5776619	<0.00050	0.00050	5776619
. Magnesium (Mg)	mg/L	16	5776619	14	0.050	5776619
. Manganese (Mn)	mg/L	0.030	5776619	<0.0020	0.0020	5776619
. Molybdenum (Mo)	mg/L	0.00063	5776619	<0.00050	0.00050	5776619
. Nickel (Ni)	mg/L	0.0011	5776619	<0.0010	0.0010	5776619
. Phosphorus (P)	mg/L	<0.10	5776619	<0.10	0.10	5776619
. Potassium (K)	mg/L	1.0	5776619	0.56	0.20	5776619
. Selenium (Se)	mg/L	<0.0020	5776619	<0.0020	0.0020	5776619
. Silicon (Si)	mg/L	12	5776619	6.2	0.050	5776619
. Silver (Ag)	mg/L	<0.00010	5776619	<0.00010	0.00010	5776619
. Sodium (Na)	mg/L	6.8	5776619	9.3	0.10	5776619
. Strontium (Sr)	mg/L	0.25	5776619	0.22	0.0010	5776619
. Thallium (Tl)	mg/L	<0.000050	5776619	<0.000050	0.000050	5776619
. Titanium (Ti)	mg/L	<0.0050	5776619	<0.0050	0.0050	5776619
. Uranium (U)	mg/L	<0.00010	5776619	0.00037	0.00010	5776619
. Vanadium (V)	mg/L	<0.00050	5776619	<0.00050	0.00050	5776619
. Zinc (Zn)	mg/L	0.021	5776619	0.033	0.0050	5776619
. Zirconium (Zr)	mg/L	<0.0010	5776619	<0.0010	0.0010	5776619

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZC405			HZC405		
Sampling Date		2018/10/09 09:26			2018/10/09 09:26		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK1 Lab-Dup**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L	<5.0	5.0	5787226			
Total Dissolved Solids	mg/L	135	10	5783175	140	10	5783175
Fluoride (F-)	mg/L	0.34	0.10	5777712			
Total Organic Carbon (TOC)	mg/L	0.65	0.50	5778231			
Total Suspended Solids	mg/L	<10	10	5777780			
Turbidity	NTU	1.1	0.1	5776416			
WAD Cyanide (Free)	ug/L	<1	1	5777319			

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

Maxxam ID		HZC406		HZC407		HZC408		
Sampling Date		2018/10/09 10:25		2018/10/09 12:05		2018/10/09 12:52		
COC Number		686537-01-01		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK2**	**QC Batch**	**WG-160900764-20181009-JK3**	**QC Batch**	**WG-160900764-20181009-JK4**	**RDL**	**QC Batch**
Inorganics								
Acidity	mg/L	10	5787226	19	5787226	41	5.0	5787226
Total Dissolved Solids	mg/L	295	5783175	1000	5783175	610	10	5783175
Fluoride (F-)	mg/L	<0.10	5777712	<0.10	5777712	<0.10	0.10	5777712
Total Organic Carbon (TOC)	mg/L	0.63	5778231	1.1	5778241	1.6	0.50	5778231
Total Suspended Solids	mg/L	<10	5777780	<10	5777780	<10	10	5777780
Turbidity	NTU	26	5776416	0.1	5776416	0.1	0.1	5776416
WAD Cyanide (Free)	ug/L	<1	5777319	<1	5785570	<1	1	5777319

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZC409	HZC410	HZC411		
Sampling Date		2018/10/09 13:55	2018/10/09 14:32	2018/10/09 15:13		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK5**	**WG-160900764-20181009-JK6**	**WG-160900764-20181009-JK7**	**RDL**	**QC Batch**
Inorganics						
Acidity	mg/L	64	6.6	5.2	5.0	5787226
Total Dissolved Solids	mg/L	505	220	245	10	5781451
Fluoride (F-)	mg/L	<0.10	0.10	<0.10	0.10	5777712
Total Organic Carbon (TOC)	mg/L	1.4	1.3	1.5	0.50	5778241
Total Suspended Solids	mg/L	<10	11	<10	10	5777533
Turbidity	NTU	0.2	17	4.7	0.1	5776416
WAD Cyanide (Free)	ug/L	<1	<1	<1	1	5777319

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZC412		HZC413		
Sampling Date		2018/10/09 16:10		2018/10/09 16:48		
COC Number		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK8**	**QC Batch**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Inorganics						
Acidity	mg/L	6.6	5787226	26	5.0	5787226
Total Dissolved Solids	mg/L	290	5781451	350	10	5783175
Fluoride (F-)	mg/L	0.14	5777712	<0.10	0.10	5777712
Total Organic Carbon (TOC)	mg/L	0.71	5778231	1.2	0.50	5778241
Total Suspended Solids	mg/L	<10	5777533	<10	10	5777780
Turbidity	NTU	5.4	5776416	0.6	0.1	5776416
WAD Cyanide (Free)	ug/L	<1	5777319	<1	1	5777319

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HZC405			HZC405		
Sampling Date		2018/10/09 09:26			2018/10/09 09:26		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK1 Lab-Dup**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	0.50	5775788			
Mercury (Hg)	mg/L	<0.0001	0.0001	5783380	<0.0001	0.0001	5783380

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

Maxxam ID		HZC406		HZC407		
Sampling Date		2018/10/09 10:25		2018/10/09 12:05		
COC Number		686537-01-01		686537-01-01		
	UNITS	**WG-160900764-20181009-JK2**	**QC Batch**	**WG-160900764-20181009-JK3**	**RDL**	**QC Batch**
Metals						
Chromium (VI)	ug/L	<0.50	5775788	0.60	0.50	5775788
Mercury (Hg)	mg/L	<0.0001	5783380	<0.0001	0.0001	5780425

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZC407			HZC408	HZC409		
Sampling Date		2018/10/09 12:05			2018/10/09 12:52	2018/10/09 13:55		
COC Number		686537-01-01			686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK3 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK4**	**WG-160900764-20181009-JK5**	**RDL**	**QC Batch**
Metals								
Chromium (VI)	ug/L				<0.50	0.85	0.50	5775788
Mercury (Hg)	mg/L	<0.0001	0.0001	5780425	<0.0001	<0.0001	0.0001	5783380

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

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

Stantec Consulting Ltd
Client Project #: 160900764
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Sampler Initials: JK

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HZC410	HZC411	HZC412	HZC413		
Sampling Date		2018/10/09 14:32	2018/10/09 15:13	2018/10/09 16:10	2018/10/09 16:48		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK6**	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	<0.50	<0.50	0.77	0.50	5775788
Mercury (Hg)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	5783380

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZC413		
Sampling Date		2018/10/09 16:48		
COC Number		686537-01-01		
	UNITS	**WG-160900764-20181009-JK9 Lab-Dup**	**RDL**	**QC Batch**
Metals				
Chromium (VI)	ug/L	0.83	0.50	5775788

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

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

Stantec Consulting Ltd
Client Project #: 160900764
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Sampler Initials: JK

MICROBIOLOGY (WATER)

Maxxam ID		HZC405	HZC406	HZC407	HZC408	
Sampling Date		2018/10/09 09:26	2018/10/09 10:25	2018/10/09 12:05	2018/10/09 12:52	
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01	
	UNITS	**WG-160900764-20181009-JK1**	**WG-160900764-20181009-JK2**	**WG-160900764-20181009-JK3**	**WG-160900764-20181009-JK4**	**QC Batch**
Microbiological						
Background	CFU/100mL	12	8	300	89	5776386
Total Coliforms	CFU/100mL	0	0	26	69	5776386
Escherichia coli	CFU/100mL	0	0	0	46	5776386
QC Batch = Quality Control Batch						

Maxxam ID		HZC409	HZC410	HZC411	HZC412	
Sampling Date		2018/10/09 13:55	2018/10/09 14:32	2018/10/09 15:13	2018/10/09 16:10	
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01	
	UNITS	**WG-160900764-20181009-JK5**	**WG-160900764-20181009-JK6**	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**QC Batch**
Microbiological						
Background	CFU/100mL	62	5	0	46	5776386
Total Coliforms	CFU/100mL	7	0	0	6	5776386
Escherichia coli	CFU/100mL	0	0	0	0	5776386
QC Batch = Quality Control Batch						

Maxxam ID		HZC413	
Sampling Date		2018/10/09 16:48	
COC Number		686537-01-01	
	UNITS	**WG-160900764-20181009-JK9**	**QC Batch**
Microbiological			
Background	CFU/100mL	NDOGT (1)	5776386
Total Coliforms	CFU/100mL	NDOGT (1)	5776386
Escherichia coli	CFU/100mL	NDOGT (1)	5776386
QC Batch = Quality Control Batch			
(1) NDOGT: No data due to overgrowth. Total coliforms and / or E.coli detected			

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Report Date: 2018/10/17

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

O.REG 153 PCBS (WATER)

Maxxam ID		HZC405	HZC406	HZC407	HZC408		
Sampling Date		2018/10/09 09:26	2018/10/09 10:25	2018/10/09 12:05	2018/10/09 12:52		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**WG-160900764-20181009-JK2**	**WG-160900764-20181009-JK3**	**WG-160900764-20181009-JK4**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Surrogate Recovery (%)							
Decachlorobiphenyl	%	74	75	80	88		5778214

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		HZC409	HZC410	HZC411	HZC412		
Sampling Date		2018/10/09 13:55	2018/10/09 14:32	2018/10/09 15:13	2018/10/09 16:10		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK5**	**WG-160900764-20181009-JK6**	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5778214
Surrogate Recovery (%)							
Decachlorobiphenyl	%	82	71	75	79		5778214

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Stantec Consulting Ltd
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Sampler Initials: JK

O.REG 153 PCBS (WATER)

Maxxam ID		HZC413		
Sampling Date		2018/10/09 16:48		
COC Number		686537-01-01		
	UNITS	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
PCBs				
Aroclor 1242	ug/L	<0.05	0.05	5778214
Aroclor 1248	ug/L	<0.05	0.05	5778214
Aroclor 1254	ug/L	<0.05	0.05	5778214
Aroclor 1260	ug/L	<0.05	0.05	5778214
Total PCB	ug/L	<0.05	0.05	5778214
Surrogate Recovery (%)				
Decachlorobiphenyl	%	84		5778214

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Sampler Initials: JK

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

Maxxam ID		HZC405	HZC406	HZC407		
Sampling Date		2018/10/09 09:26	2018/10/09 10:25	2018/10/09 12:05		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**WG-160900764-20181009-JK2**	**WG-160900764-20181009-JK3**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5774849
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5777387
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Bromodichloromethane	ug/L	<0.50	<0.50	0.71	0.50	5777387
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5777387
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Chloroform	ug/L	<0.20	<0.20	0.69	0.20	5777387
Dibromochloromethane	ug/L	<0.50	<0.50	0.99	0.50	5777387
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5777387
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5777387
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5777387
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5777387
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5777387
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5777387
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5777387
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5777387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Client Project #: 160900764
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Sampler Initials: JK

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

Maxxam ID		HZC405	HZC406	HZC407		
Sampling Date		2018/10/09 09:26	2018/10/09 10:25	2018/10/09 12:05		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**WG-160900764-20181009-JK2**	**WG-160900764-20181009-JK3**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5777387
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5777387
F1 (C6-C10)	ug/L	<25	<25	<25	25	5777387
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5777387
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5780503
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5780503
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5780503
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5780503
Surrogate Recovery (%)						
o-Terphenyl	%	90	92	91		5780503
4-Bromofluorobenzene	%	93	92	93		5777387
D4-1,2-Dichloroethane	%	102	102	102		5777387
D8-Toluene	%	99	99	100		5777387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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		HZC408	HZC409	HZC410		
Sampling Date		2018/10/09 12:52	2018/10/09 13:55	2018/10/09 14:32		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK4**	**WG-160900764-20181009-JK5**	**WG-160900764-20181009-JK6**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5774849
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5777387
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5777387
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Chloroform	ug/L	<0.20	0.54	<0.20	0.20	5777387
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5777387
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5777387
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5777387
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5777387
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5777387
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5777387
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5777387
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5777387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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		HZC408	HZC409	HZC410		
Sampling Date		2018/10/09 12:52	2018/10/09 13:55	2018/10/09 14:32		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK4**	**WG-160900764-20181009-JK5**	**WG-160900764-20181009-JK6**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5777387
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5777387
F1 (C6-C10)	ug/L	<25	<25	<25	25	5777387
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5777387
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5780503
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5780503
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5780503
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5780503
Surrogate Recovery (%)						
o-Terphenyl	%	89	91	89		5780503
4-Bromofluorobenzene	%	93	92	92		5777387
D4-1,2-Dichloroethane	%	102	102	101		5777387
D8-Toluene	%	99	100	101		5777387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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		HZC411	HZC412	HZC413		
Sampling Date		2018/10/09 15:13	2018/10/09 16:10	2018/10/09 16:48		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5774849
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5777387
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5777387
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5777387
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5777387
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5777387
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5777387
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5777387
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5777387
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5777387
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5777387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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		HZC411	HZC412	HZC413		
Sampling Date		2018/10/09 15:13	2018/10/09 16:10	2018/10/09 16:48		
COC Number		686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5777387
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5777387
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5777387
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5777387
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5777387
F1 (C6-C10)	ug/L	<25	<25	<25	25	5777387
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5777387
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5780503
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5780503
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5780503
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5780503
Surrogate Recovery (%)						
o-Terphenyl	%	91	87	88		5780503
4-Bromofluorobenzene	%	92	91	92		5777387
D4-1,2-Dichloroethane	%	102	104	102		5777387
D8-Toluene	%	101	100	100		5777387

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZC405	HZC406	HZC407	HZC408		
Sampling Date		2018/10/09 09:26	2018/10/09 10:25	2018/10/09 12:05	2018/10/09 12:52		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**WG-160900764-20181009-JK2**	**WG-160900764-20181009-JK3**	**WG-160900764-20181009-JK4**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5780128
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5780128
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5780128
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5780128
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	5780128
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZC405	HZC406	HZC407	HZC408		
Sampling Date		2018/10/09 09:26	2018/10/09 10:25	2018/10/09 12:05	2018/10/09 12:52		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK1**	**WG-160900764-20181009-JK2**	**WG-160900764-20181009-JK3**	**WG-160900764-20181009-JK4**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5780128
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5775346
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	37 (1)	59	51	75		5780128
2-Fluorobiphenyl	%	58	44 (1)	29 (1)	57		5780128
D14-Terphenyl (FS)	%	94	94	92	93		5780128
D5-Nitrobenzene	%	70	52	35 (1)	69		5780128

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 #: B8Q6729
Report Date: 2018/10/17

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZC409			HZC409		
Sampling Date		2018/10/09 13:55			2018/10/09 13:55		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK5**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK5 Lab-Dup**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
1-Methylnaphthalene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
2,4-Dichlorophenol	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
2,4-Dimethylphenol	ug/L	<0.5	0.5	5780128	<0.5	0.5	5780128
2,4-Dinitrophenol	ug/L	<2	2	5780128	<2	2	5780128
2,4-Dinitrotoluene	ug/L	<0.3	0.3	5780128	<0.3	0.3	5780128
2,6-Dinitrotoluene	ug/L	<0.3	0.3	5780128	<0.3	0.3	5780128
2-Chlorophenol	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
2-Methylnaphthalene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	5780128	<0.5	0.5	5780128
Acenaphthene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
Acenaphthylene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
Anthracene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Benzo(a)anthracene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Benzo(a)pyrene	ug/L	<0.01	0.01	5780128	<0.01	0.01	5780128
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Benzo(k)fluoranthene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Biphenyl	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	5780128	<0.5	0.5	5780128
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	5780128	<0.5	0.5	5780128
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	5780128	<1	1	5780128
Chrysene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Diethyl phthalate	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Dimethyl phthalate	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Fluoranthene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
Fluorene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128

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

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZC409			HZC409		
Sampling Date		2018/10/09 13:55			2018/10/09 13:55		
COC Number		686537-01-01			686537-01-01		
	UNITS	**WG-160900764-20181009-JK5**	**RDL**	**QC Batch**	**WG-160900764-20181009-JK5 Lab-Dup**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Naphthalene	ug/L	<0.2	0.2	5780128	<0.2	0.2	5780128
p-Chloroaniline	ug/L	<1	1	5780128	<1	1	5780128
Pentachlorophenol	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Phenanthrene	ug/L	<0.1	0.1	5780128	<0.1	0.1	5780128
Phenol	ug/L	<0.5	0.5	5780128	<0.5	0.5	5780128
Pyrene	ug/L	<0.05	0.05	5780128	<0.05	0.05	5780128
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28	5775346			
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	69		5780128	70		5780128
2-Fluorobiphenyl	%	50		5780128	51		5780128
D14-Terphenyl (FS)	%	93		5780128	93		5780128
D5-Nitrobenzene	%	50		5780128	60		5780128

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

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZC410	HZC411	HZC412	HZC413		
Sampling Date		2018/10/09 14:32	2018/10/09 15:13	2018/10/09 16:10	2018/10/09 16:48		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK6**	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5780128
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5780128
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5780128
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5780128
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	5780128
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZC410	HZC411	HZC412	HZC413		
Sampling Date		2018/10/09 14:32	2018/10/09 15:13	2018/10/09 16:10	2018/10/09 16:48		
COC Number		686537-01-01	686537-01-01	686537-01-01	686537-01-01		
	UNITS	**WG-160900764-20181009-JK6**	**WG-160900764-20181009-JK7**	**WG-160900764-20181009-JK8**	**WG-160900764-20181009-JK9**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5780128
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5780128
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5780128
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5780128
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5780128
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5775346
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	55	60	63	54		5780128
2-Fluorobiphenyl	%	31 (1)	32 (1)	34 (1)	58		5780128
D14-Terphenyl (FS)	%	94	91	94	95		5780128
D5-Nitrobenzene	%	39 (1)	43 (1)	44 (1)	75		5780128

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 #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC405
Sample ID: WG-160900764-20181009-JK1
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5776157	N/A	2018/10/11	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/12	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783175	2018/10/15	2018/10/16	Mandeep Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	5778231	N/A	2018/10/13	Nimarta Singh
Total Suspended Solids	BAL	5777780	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC405 Dup
Sample ID: WG-160900764-20181009-JK1
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Total Dissolved Solids	BAL	5783175	2018/10/15	2018/10/16	Mandeep Kaur

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC406
Sample ID: WG-160900764-20181009-JK2
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5776157	N/A	2018/10/12	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/12	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783175	2018/10/15	2018/10/16	Mandeep Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	5778231	N/A	2018/10/13	Nimarta Singh
Total Suspended Solids	BAL	5777780	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC407
Sample ID: WG-160900764-20181009-JK3
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC407
Sample ID: WG-160900764-20181009-JK3
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5785570	N/A	2018/10/16	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5777895	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5780425	2018/10/12	2018/10/15	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/12	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783175	2018/10/15	2018/10/16	Mandeep Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	5778241	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5777780	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC407 Dup
Sample ID: WG-160900764-20181009-JK3
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5777895	N/A	2018/10/13	Nimarta Singh
Mercury in Water by CVAA	CV/AA	5780425	2018/10/12	2018/10/15	Ron Morrison

Maxxam ID: HZC408
Sample ID: WG-160900764-20181009-JK4
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC408
Sample ID: WG-160900764-20181009-JK4
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5776157	N/A	2018/10/11	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/12	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783175	2018/10/15	2018/10/16	Mandeep Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	5778231	N/A	2018/10/13	Nimarta Singh
Total Suspended Solids	BAL	5777780	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC409
Sample ID: WG-160900764-20181009-JK5
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/15	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/15	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC409
Sample ID: WG-160900764-20181009-JK5
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5777895	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5781451	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5778241	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5777533	2018/10/12	2018/10/15	Mandeep Kaur
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC409 Dup
Sample ID: WG-160900764-20181009-JK5
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/15	Milijana Avramovic
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/15	Arefa Dabhad

Maxxam ID: HZC410
Sample ID: WG-160900764-20181009-JK6
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC410
Sample ID: WG-160900764-20181009-JK6
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5777895	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5781451	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5778241	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5777533	2018/10/12	2018/10/15	Mandeep Kaur
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC411
Sample ID: WG-160900764-20181009-JK7
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/15	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/15	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC411
Sample ID: WG-160900764-20181009-JK7
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5776157	N/A	2018/10/12	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/12	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5781451	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5778241	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5777533	2018/10/12	2018/10/15	Mandeep Kaur
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC412
Sample ID: WG-160900764-20181009-JK8
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5777895	N/A	2018/10/13	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

TEST SUMMARY

Maxxam ID: HZC412
Sample ID: WG-160900764-20181009-JK8
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/12	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5781451	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5778231	N/A	2018/10/13	Nimarta Singh
Total Suspended Solids	BAL	5777533	2018/10/12	2018/10/15	Mandeep Kaur
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC413
Sample ID: WG-160900764-20181009-JK9
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5775346	N/A	2018/10/16	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5780128	2018/10/12	2018/10/16	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5777726	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5774807	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5774849	N/A	2018/10/15	Automated Statchk
Chloride by Automated Colourimetry	KONE	5777713	N/A	2018/10/12	Deonarine Ramnarine
Conductivity	AT	5777739	N/A	2018/10/15	Surinder Rai
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz
Free (WAD) Cyanide	SKAL/CN	5777319	N/A	2018/10/11	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5776157	N/A	2018/10/12	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5780503	2018/10/12	2018/10/14	Zhiyue (Frank) Zhu
Fluoride	ISE	5777712	2018/10/11	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5774809	N/A	2018/10/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	5783380	2018/10/15	2018/10/16	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5776619	N/A	2018/10/15	Arefa Dabhad
Ion Balance (% Difference)	CALC	5774810	N/A	2018/10/15	Automated Statchk
Anion and Cation Sum	CALC	5774811	N/A	2018/10/15	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5776386	N/A	2018/10/10	Sonja Elavinamannil

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Maxxam Job #: B8Q6729
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Sampler Initials: JK

TEST SUMMARY

Maxxam ID: HZC413
Sample ID: WG-160900764-20181009-JK9
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	5778289	N/A	2018/10/17	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5777628	N/A	2018/10/12	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5778214	2018/10/11	2018/10/12	Sarah Huang
pH	AT	5777727	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5777718	N/A	2018/10/12	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5774812	N/A	2018/10/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5774813	N/A	2018/10/15	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5777717	N/A	2018/10/12	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5774814	N/A	2018/10/15	Automated Statchk
Total Dissolved Solids	BAL	5783175	2018/10/15	2018/10/16	Mandeep Kaur
Total Organic Carbon (TOC)	TOCV/NDIR	5778241	N/A	2018/10/14	Nimarta Singh
Total Suspended Solids	BAL	5777780	2018/10/12	2018/10/15	Jingwei (Alvin) Shi
Turbidity	AT	5776416	N/A	2018/10/11	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5777387	N/A	2018/10/13	Yang (Philip) Yu

Maxxam ID: HZC413 Dup
Sample ID: WG-160900764-20181009-JK9
Matrix: Water

Collected: 2018/10/09
Shipped:
Received: 2018/10/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	5775788	N/A	2018/10/15	Sally Norouz

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GENERAL COMMENTS

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

Package 1	10.0°C
Package 2	10.3°C
Package 3	8.3°C
Package 4	6.7°C
Package 5	8.3°C
Package 6	10.7°C

Sample HZC408 [WG-160900764-20181009-JK4] : TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample HZC412 [WG-160900764-20181009-JK8] : TOC< DOC: 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
5777387	4-Bromofluorobenzene	2018/10/12	97	70 - 130	96	70 - 130	94	%				
5777387	D4-1,2-Dichloroethane	2018/10/12	100	70 - 130	99	70 - 130	99	%				
5777387	D8-Toluene	2018/10/12	104	70 - 130	105	70 - 130	101	%				
5778214	Decachlorobiphenyl	2018/10/11	74	60 - 130	73	60 - 130	77	%				
5780128	2,4,6-Tribromophenol	2018/10/13	59	50 - 130	76	50 - 130	67	%				
5780128	2-Fluorobiphenyl	2018/10/13	27 (1)	50 - 130	63	50 - 130	66	%				
5780128	D14-Terphenyl (FS)	2018/10/13	91	50 - 130	92	50 - 130	91	%				
5780128	D5-Nitrobenzene	2018/10/13	29 (1)	50 - 130	67	50 - 130	68	%				
5780503	o-Terphenyl	2018/10/14	96	60 - 130	93	60 - 130	91	%				
5775788	Chromium (VI)	2018/10/15	103	80 - 120	101	80 - 120	<0.50	ug/L	7.4	20		
5776157	Dissolved Organic Carbon	2018/10/11	NC	80 - 120	99	80 - 120	<0.50	mg/L	0.85	20		
5776416	Turbidity	2018/10/11			101	85 - 115	<0.1	NTU	2.2	20		
5776619	. Aluminum (Al)	2018/10/15	104	80 - 120	100	80 - 120	<0.0050	mg/L	3.5	20		
5776619	. Antimony (Sb)	2018/10/15	107	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
5776619	. Arsenic (As)	2018/10/15	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
5776619	. Barium (Ba)	2018/10/15	102	80 - 120	99	80 - 120	<0.0020	mg/L	2.3	20		
5776619	. Beryllium (Be)	2018/10/15	107	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20		
5776619	. Boron (B)	2018/10/15	107	80 - 120	105	80 - 120	<0.010	mg/L	0.093	20		
5776619	. Cadmium (Cd)	2018/10/15	103	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20		
5776619	. Calcium (Ca)	2018/10/15	NC	80 - 120	97	80 - 120	<0.20	mg/L	1.3	20		
5776619	. Chromium (Cr)	2018/10/15	94	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
5776619	. Cobalt (Co)	2018/10/15	98	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
5776619	. Copper (Cu)	2018/10/15	94	80 - 120	94	80 - 120	<0.0010	mg/L	3.8	20		
5776619	. Iron (Fe)	2018/10/15	105	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
5776619	. Lead (Pb)	2018/10/15	97	80 - 120	97	80 - 120	<0.00050	mg/L	3.1	20		
5776619	. Magnesium (Mg)	2018/10/15	104	80 - 120	107	80 - 120	<0.050	mg/L	2.0	20		
5776619	. Manganese (Mn)	2018/10/15	101	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
5776619	. Molybdenum (Mo)	2018/10/15	104	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
5776619	. Nickel (Ni)	2018/10/15	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
5776619	. Phosphorus (P)	2018/10/15	108	80 - 120	115	80 - 120	<0.10	mg/L	NC	20		
5776619	. Potassium (K)	2018/10/15	101	80 - 120	101	80 - 120	<0.20	mg/L	2.6	20		

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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
5776619	. Selenium (Se)	2018/10/15	103	80 - 120	101	80 - 120	<0.0020	mg/L	NC	20		
5776619	. Silicon (Si)	2018/10/15	102	80 - 120	100	80 - 120	<0.050	mg/L	0.12	20		
5776619	. Silver (Ag)	2018/10/15	99	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20		
5776619	. Sodium (Na)	2018/10/15	102	80 - 120	105	80 - 120	<0.10	mg/L	3.6	20		
5776619	. Strontium (Sr)	2018/10/15	98	80 - 120	100	80 - 120	<0.0010	mg/L	3.1	20		
5776619	. Thallium (Tl)	2018/10/15	98	80 - 120	101	80 - 120	<0.000050	mg/L	NC	20		
5776619	. Titanium (Ti)	2018/10/15	101	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20		
5776619	. Uranium (U)	2018/10/15	102	80 - 120	101	80 - 120	<0.00010	mg/L	6.9	20		
5776619	. Vanadium (V)	2018/10/15	100	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
5776619	. Zinc (Zn)	2018/10/15	99	80 - 120	101	80 - 120	<0.0050	mg/L	3.9	20		
5776619	. Zirconium (Zr)	2018/10/15	106	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
5777319	WAD Cyanide (Free)	2018/10/11	98	80 - 120	101	80 - 120	<1	ug/L	NC	20		
5777387	1,1,1,2-Tetrachloroethane	2018/10/12	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5777387	1,1,1-Trichloroethane	2018/10/12	98	70 - 130	100	70 - 130	<0.20	ug/L	0.085	30		
5777387	1,1,2,2-Tetrachloroethane	2018/10/12	96	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5777387	1,1,2-Trichloroethane	2018/10/12	99	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5777387	1,1-Dichloroethane	2018/10/12	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5777387	1,1-Dichloroethylene	2018/10/12	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5777387	1,2-Dichlorobenzene	2018/10/12	95	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5777387	1,2-Dichloroethane	2018/10/12	95	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5777387	1,2-Dichloropropane	2018/10/12	95	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5777387	1,3-Dichlorobenzene	2018/10/12	97	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5777387	1,4-Dichlorobenzene	2018/10/12	96	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5777387	Acetone (2-Propanone)	2018/10/12	93	60 - 140	93	60 - 140	<10	ug/L	NC	30		
5777387	Benzene	2018/10/12	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5777387	Bromodichloromethane	2018/10/12	94	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5777387	Bromoform	2018/10/12	90	70 - 130	90	70 - 130	<1.0	ug/L	NC	30		
5777387	Bromomethane	2018/10/12	96	60 - 140	99	60 - 140	<0.50	ug/L	NC	30		
5777387	Carbon Tetrachloride	2018/10/12	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5777387	Chlorobenzene	2018/10/12	97	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5777387	Chloroform	2018/10/12	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
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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
5777387	cis-1,2-Dichloroethylene	2018/10/12	96	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5777387	cis-1,3-Dichloropropene	2018/10/12	83	70 - 130	83	70 - 130	<0.30	ug/L	NC	30		
5777387	Dibromochloromethane	2018/10/12	94	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5777387	Dichlorodifluoromethane (FREON 12)	2018/10/12	103	60 - 140	106	60 - 140	<1.0	ug/L	NC	30		
5777387	Ethylbenzene	2018/10/12	96	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5777387	Ethylene Dibromide	2018/10/12	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5777387	F1 (C6-C10) - BTEX	2018/10/12					<25	ug/L	NC	30		
5777387	F1 (C6-C10)	2018/10/12	97	60 - 140	98	60 - 140	<25	ug/L	NC	30		
5777387	Hexane	2018/10/12	98	70 - 130	100	70 - 130	<1.0	ug/L	NC	30		
5777387	Methyl Ethyl Ketone (2-Butanone)	2018/10/12	89	60 - 140	89	60 - 140	<10	ug/L	NC	30		
5777387	Methyl Isobutyl Ketone	2018/10/12	83	70 - 130	82	70 - 130	<5.0	ug/L	NC	30		
5777387	Methyl t-butyl ether (MTBE)	2018/10/12	91	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5777387	Methylene Chloride(Dichloromethane)	2018/10/12	99	70 - 130	101	70 - 130	<2.0	ug/L	NC	30		
5777387	o-Xylene	2018/10/12	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5777387	p+m-Xylene	2018/10/12	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5777387	Styrene	2018/10/12	92	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
5777387	Tetrachloroethylene	2018/10/12	99	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
5777387	Toluene	2018/10/12	98	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5777387	Total Xylenes	2018/10/12					<0.20	ug/L	NC	30		
5777387	trans-1,2-Dichloroethylene	2018/10/12	95	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5777387	trans-1,3-Dichloropropene	2018/10/12	87	70 - 130	87	70 - 130	<0.40	ug/L	NC	30		
5777387	Trichloroethylene	2018/10/12	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5777387	Trichlorofluoromethane (FREON 11)	2018/10/12	101	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
5777387	Vinyl Chloride	2018/10/12	95	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5777533	Total Suspended Solids	2018/10/15					<10	mg/L	NC	25	98	85 - 115
5777628	Nitrate (N)	2018/10/12	97	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
5777628	Nitrite (N)	2018/10/12	97	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
5777712	Fluoride (F-)	2018/10/13	98	80 - 120	95	80 - 120	<0.10	mg/L	0.93	20		
5777713	Dissolved Chloride (Cl-)	2018/10/12	108	80 - 120	102	80 - 120	<1.0	mg/L	3.9	20		
5777717	Dissolved Sulphate (SO4)	2018/10/12	99	75 - 125	101	80 - 120	<1.0	mg/L	1.4	20		
5777718	Orthophosphate (P)	2018/10/12	108	75 - 125	100	80 - 120	<0.010	mg/L	5.5	25		

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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
5777726	Alkalinity (Total as CaCO3)	2018/10/13			98	85 - 115	<1.0	mg/L	3.6	20		
5777727	pH	2018/10/13			101	98 - 103			1.7	N/A		
5777739	Conductivity	2018/10/15			101	85 - 115	<1.0	umho/cm	0.43	25		
5777780	Total Suspended Solids	2018/10/15					<10	mg/L	4.5	25	100	85 - 115
5777895	Dissolved Organic Carbon	2018/10/13	93	80 - 120	94	80 - 120	<0.50	mg/L	4.5	20		
5778214	Aroclor 1242	2018/10/11					<0.05	ug/L	NC	30		
5778214	Aroclor 1248	2018/10/11					<0.05	ug/L	NC	30		
5778214	Aroclor 1254	2018/10/11					<0.05	ug/L	NC	30		
5778214	Aroclor 1260	2018/10/11	90	60 - 130	83	60 - 130	<0.05	ug/L	NC	30		
5778214	Total PCB	2018/10/11	90	60 - 130	83	60 - 130	<0.05	ug/L	NC	40		
5778231	Total Organic Carbon (TOC)	2018/10/13	NC	80 - 120	97	80 - 120	<0.50	mg/L	0.58	20		
5778241	Total Organic Carbon (TOC)	2018/10/14	92	80 - 120	100	80 - 120	<0.50	mg/L	1.1	20		
5778289	Total Ammonia-N	2018/10/17	100	75 - 125	99	80 - 120	<0.050	mg/L	19	20		
5780128	1,2,4-Trichlorobenzene	2018/10/15	22 (2)	50 - 130	55	50 - 130	<0.1	ug/L	NC	30		
5780128	1-Methylnaphthalene	2018/10/15	34 (3)	50 - 130	77	50 - 130	<0.2	ug/L	NC	30		
5780128	2,4,5-Trichlorophenol	2018/10/15	39 (3)	50 - 130	77	50 - 130	<0.2	ug/L	NC	30		
5780128	2,4,6-Trichlorophenol	2018/10/15	33 (3)	50 - 130	72	50 - 130	<0.2	ug/L	NC	30		
5780128	2,4-Dichlorophenol	2018/10/15	28 (3)	50 - 130	66	50 - 130	<0.1	ug/L	NC	30		
5780128	2,4-Dimethylphenol	2018/10/15	14 (3)	30 - 130	60	30 - 130	<0.5	ug/L	NC	30		
5780128	2,4-Dinitrophenol	2018/10/15	76	30 - 130	98	30 - 130	<2	ug/L	NC	30		
5780128	2,4-Dinitrotoluene	2018/10/15	72	50 - 130	85	50 - 130	<0.3	ug/L	NC	30		
5780128	2,6-Dinitrotoluene	2018/10/15	48 (3)	50 - 130	80	50 - 130	<0.3	ug/L	NC	30		
5780128	2-Chlorophenol	2018/10/15	26 (3)	50 - 130	63	50 - 130	<0.1	ug/L	NC	30		
5780128	2-Methylnaphthalene	2018/10/15	32 (3)	50 - 130	73	50 - 130	<0.2	ug/L	NC	30		
5780128	3,3'-Dichlorobenzidine	2018/10/15	70	30 - 130	81	30 - 130	<0.5	ug/L	NC	30		
5780128	Acenaphthene	2018/10/15	38 (3)	50 - 130	80	50 - 130	<0.2	ug/L	NC	30		
5780128	Acenaphthylene	2018/10/15	38 (3)	50 - 130	80	50 - 130	<0.2	ug/L	NC	30		
5780128	Anthracene	2018/10/15	70	50 - 130	83	50 - 130	<0.05	ug/L	NC	30		
5780128	Benzo(a)anthracene	2018/10/15	101	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
5780128	Benzo(a)pyrene	2018/10/15	96	50 - 130	96	50 - 130	<0.01	ug/L	NC	30		

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Report Date: 2018/10/17

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
5780128	Benzo(b/j)fluoranthene	2018/10/15	97	50 - 130	98	50 - 130	<0.05	ug/L	NC	30		
5780128	Benzo(g,h,i)perylene	2018/10/15	92	50 - 130	90	50 - 130	<0.05	ug/L	NC	30		
5780128	Benzo(k)fluoranthene	2018/10/15	107	50 - 130	109	50 - 130	<0.05	ug/L	NC	30		
5780128	Biphenyl	2018/10/15	34 (3)	50 - 130	76	50 - 130	<0.1	ug/L	NC	30		
5780128	Bis(2-chloroethyl)ether	2018/10/15	27 (3)	50 - 130	67	50 - 130	<0.5	ug/L	NC	30		
5780128	Bis(2-chloroisopropyl)ether	2018/10/15	27 (3)	50 - 130	70	50 - 130	<0.5	ug/L	NC	30		
5780128	Bis(2-ethylhexyl)phthalate	2018/10/15	89	50 - 130	89	50 - 130	<1	ug/L	NC	30		
5780128	Chrysene	2018/10/15	102	50 - 130	101	50 - 130	<0.05	ug/L	NC	30		
5780128	Dibenz(a,h)anthracene	2018/10/15	96	50 - 130	94	50 - 130	<0.1	ug/L	NC	30		
5780128	Diethyl phthalate	2018/10/15	73	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		
5780128	Dimethyl phthalate	2018/10/15	59	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
5780128	Fluoranthene	2018/10/15	103	50 - 130	102	50 - 130	<0.2	ug/L	NC	30		
5780128	Fluorene	2018/10/15	41 (3)	50 - 130	78	50 - 130	<0.2	ug/L	NC	30		
5780128	Indeno(1,2,3-cd)pyrene	2018/10/15	100	50 - 130	97	50 - 130	<0.1	ug/L	NC	30		
5780128	Naphthalene	2018/10/15	38 (3)	50 - 130	73	50 - 130	<0.2	ug/L	NC	30		
5780128	p-Chloroaniline	2018/10/15	28 (3)	30 - 130	68	30 - 130	<1	ug/L	NC	30		
5780128	Pentachlorophenol	2018/10/15	68	50 - 130	78	50 - 130	<0.1	ug/L	NC	30		
5780128	Phenanthrene	2018/10/15	71	50 - 130	85	50 - 130	<0.1	ug/L	NC	30		
5780128	Phenol	2018/10/15	12 (3)	30 - 130	32	30 - 130	<0.5	ug/L	NC	30		
5780128	Pyrene	2018/10/15	104	50 - 130	103	50 - 130	<0.05	ug/L	NC	30		
5780425	Mercury (Hg)	2018/10/15	98	75 - 125	101	80 - 120	<0.0001	mg/L	NC	20		
5780503	F2 (C10-C16 Hydrocarbons)	2018/10/14	97	50 - 130	95	60 - 130	<100	ug/L	NC	30		
5780503	F3 (C16-C34 Hydrocarbons)	2018/10/14	96	50 - 130	95	60 - 130	<200	ug/L	NC	30		
5780503	F4 (C34-C50 Hydrocarbons)	2018/10/14	91	50 - 130	89	60 - 130	<200	ug/L	NC	30		
5781451	Total Dissolved Solids	2018/10/15					<10	mg/L	3.2	25	98	90 - 110
5783175	Total Dissolved Solids	2018/10/16					<10	mg/L	3.6	25	95	90 - 110
5783380	Mercury (Hg)	2018/10/16	92	75 - 125	93	80 - 120	<0.0001	mg/L	NC	20		
5785570	WAD Cyanide (Free)	2018/10/16	105	80 - 120	100	80 - 120	<1	ug/L	NC	20		

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 #: B8Q6729
Report Date: 2018/10/17

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
5787226	Acidity	2018/10/17	87	80 - 120	101	80 - 120	<5.0	mg/L	4.3	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) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B8Q6729
Report Date: 2018/10/17

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

Gina Thompson, Inorganics General Chemistry Supervisor

Sonja Elavinamannil, Analyst I

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.

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

stantec 160400764

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A Bureau Veritas Group Company

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 1	
Page ___ of ___	
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Page ___ of ___	

COOLER OBSERVATIONS:

MAXXAM JOB#:

	YES	NO	COOLER ID			
CUSTODY SEAL						
PRESENT	X		TEMP	10 (1)	10 (2)	10 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL			COOLER ID			
PRESENT	X		TEMP	11 (1)	10 (2)	10 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL			COOLER ID			
PRESENT	X		TEMP	8 (1)	9 (2)	8 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL			COOLER ID			
PRESENT	X		TEMP	7 (1)	6 (2)	7 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL			COOLER ID			
PRESENT	X		TEMP	8 (1)	8 (2)	9 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL			COOLER ID			
PRESENT	X		TEMP	10 (1)	11 (2)	11 (3)
INTACT	X					
ICE PRESENT	X					
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

	YES	NO	COOLER ID			
CUSTODY SEAL						
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Jwoodward	Jenncwoodward	2018/10/10	09:00

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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

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 Fax: (519) 579-6733
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 #: 686537
COC #: C#686537-01-01
Project Manager: Ronklin Gracian

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)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): 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

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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (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-160900764-20181009-JK1	09 Oct 2018	0926	WG	N/A	✓	—	—	✓	✓	✓	✓	—	—	—	19	Analyze per quote
2		WG-160900764-20181009-JK2		1025			✓	✓	—	✓	—	—	✓	—	—	—		as received
3		WG-160900764-20181009-JK3		1205			✓	—	—	✓	✓	—	—	—	—	—		
4		~~09-JK3~~																
5		09-JK4		1252			✓	✓	✓	✓	—	✓	✓	✓	✓	✓		
6		09-JK5		1355			✓	✓	—	✓	✓	✓	✓	✓	—	—		
7		09-JK6		1432			✓	✓	✓	—	✓	✓	✓	✓	✓	✓		
8		09-JK7		1513			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
9		09-JK8		1610			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10		09-JK9		1648			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

10-Oct-18 09:00
Ronklin Gracian
B8Q6729
GID ENV-1204

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time
JAMIE KOCH	18/10/09	1930	[illegible]	18/10/10	09:00
			YUSHAN [illegible]	2018/10/10	13:54

jars used and not submitted

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3 & ACED	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.

REFER TO ACTR

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

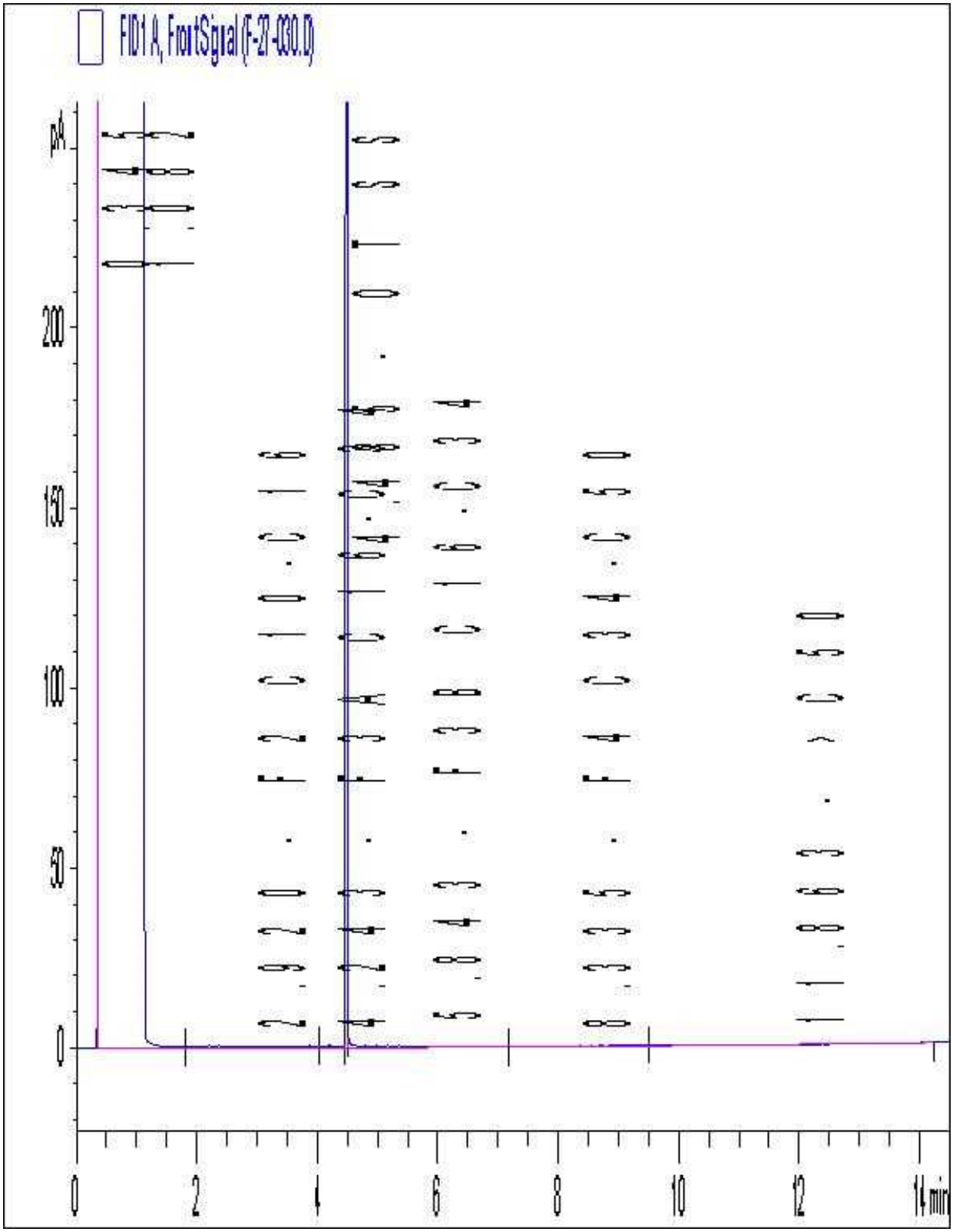
White: Maxxa Yellow: Client

MW #

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC405

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK1

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

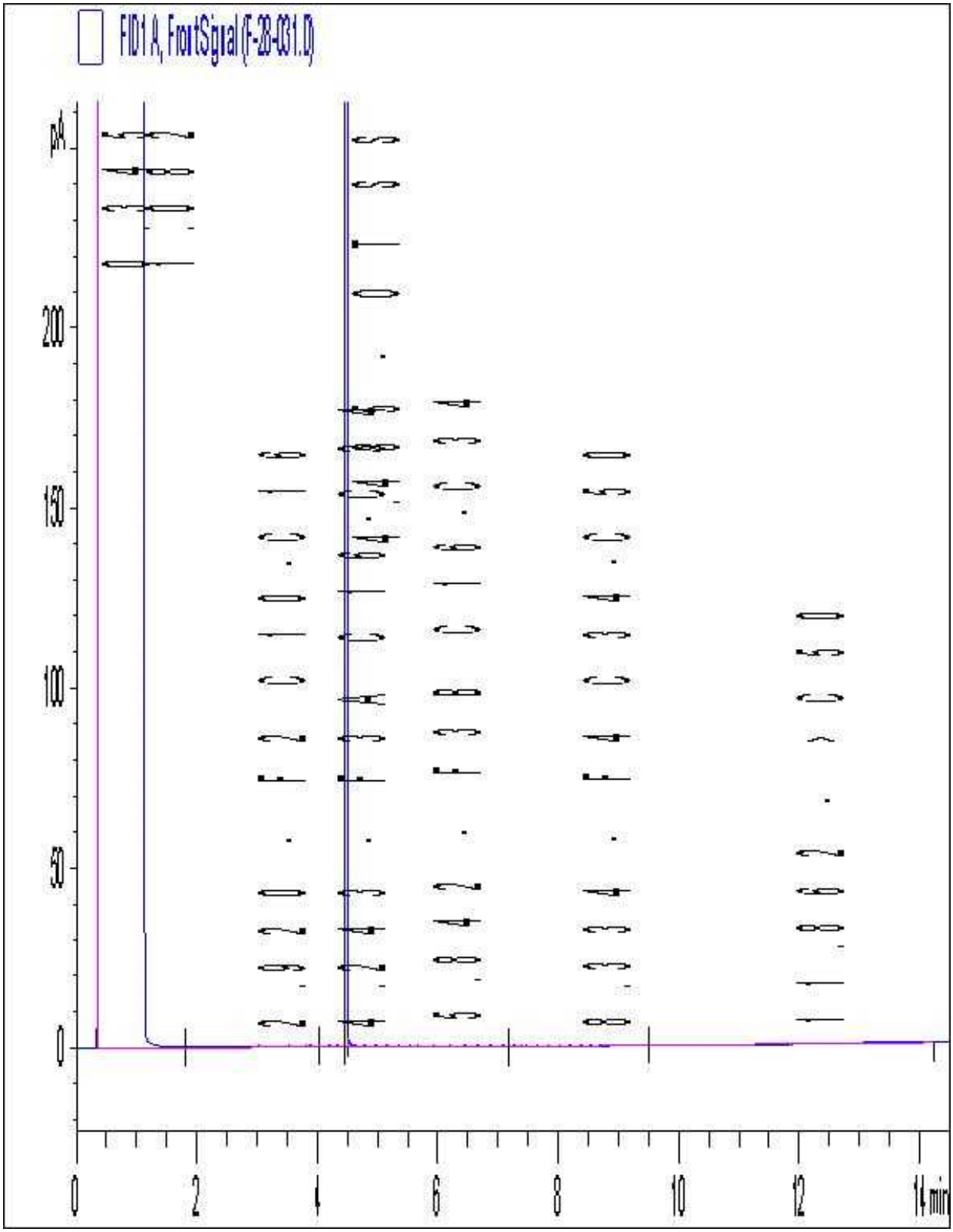


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC406

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK2

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

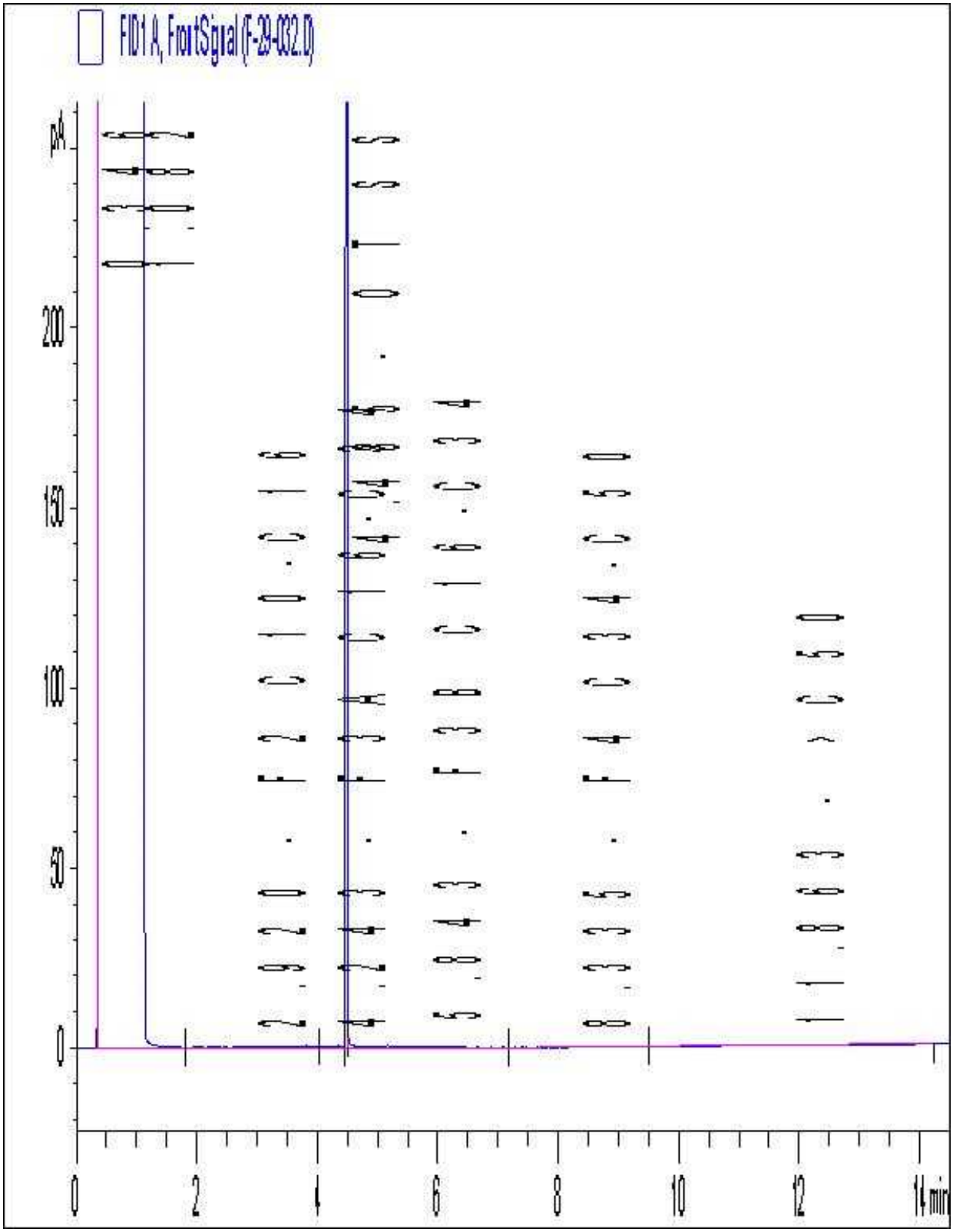


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC407

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK3

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

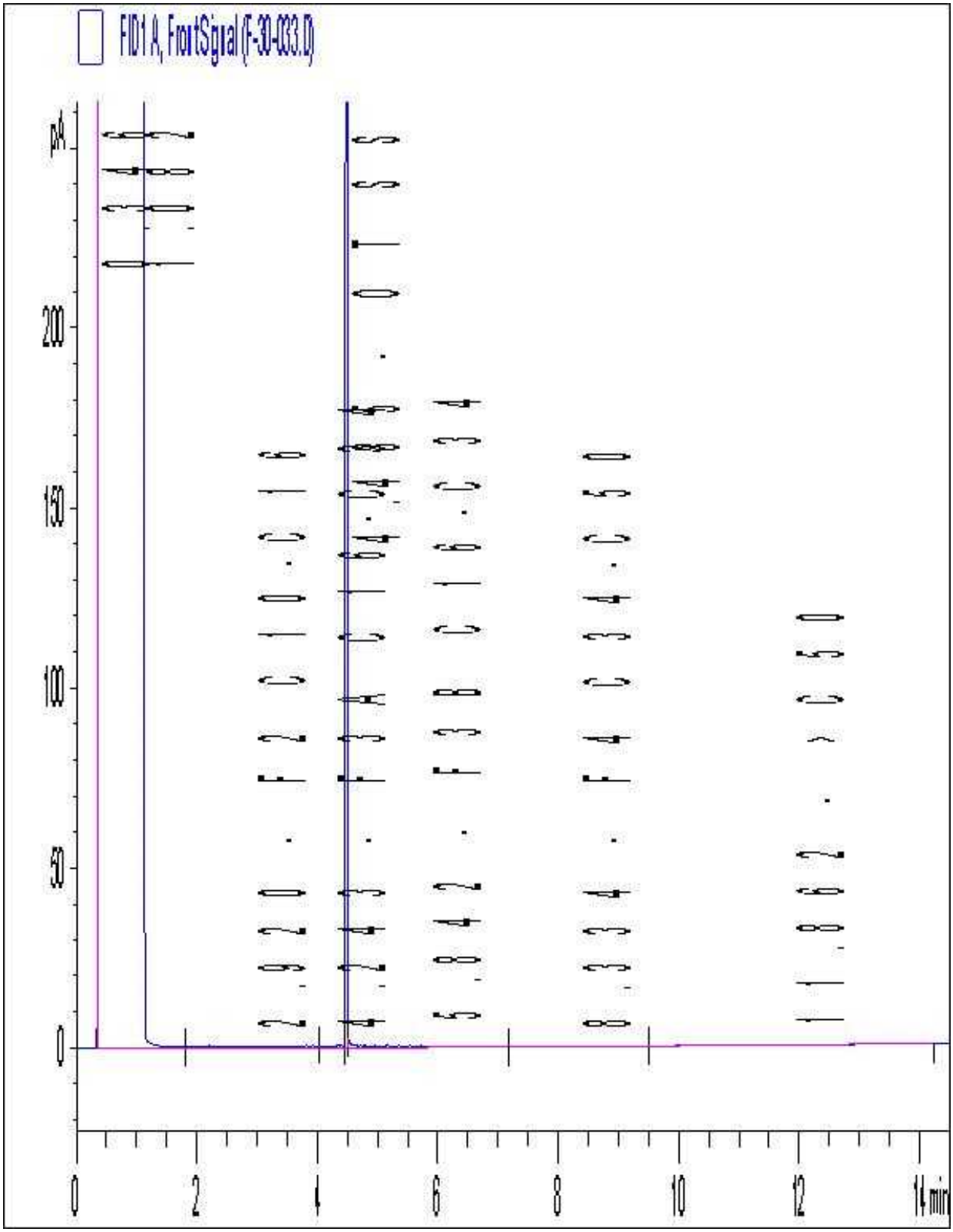


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC408

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK4

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

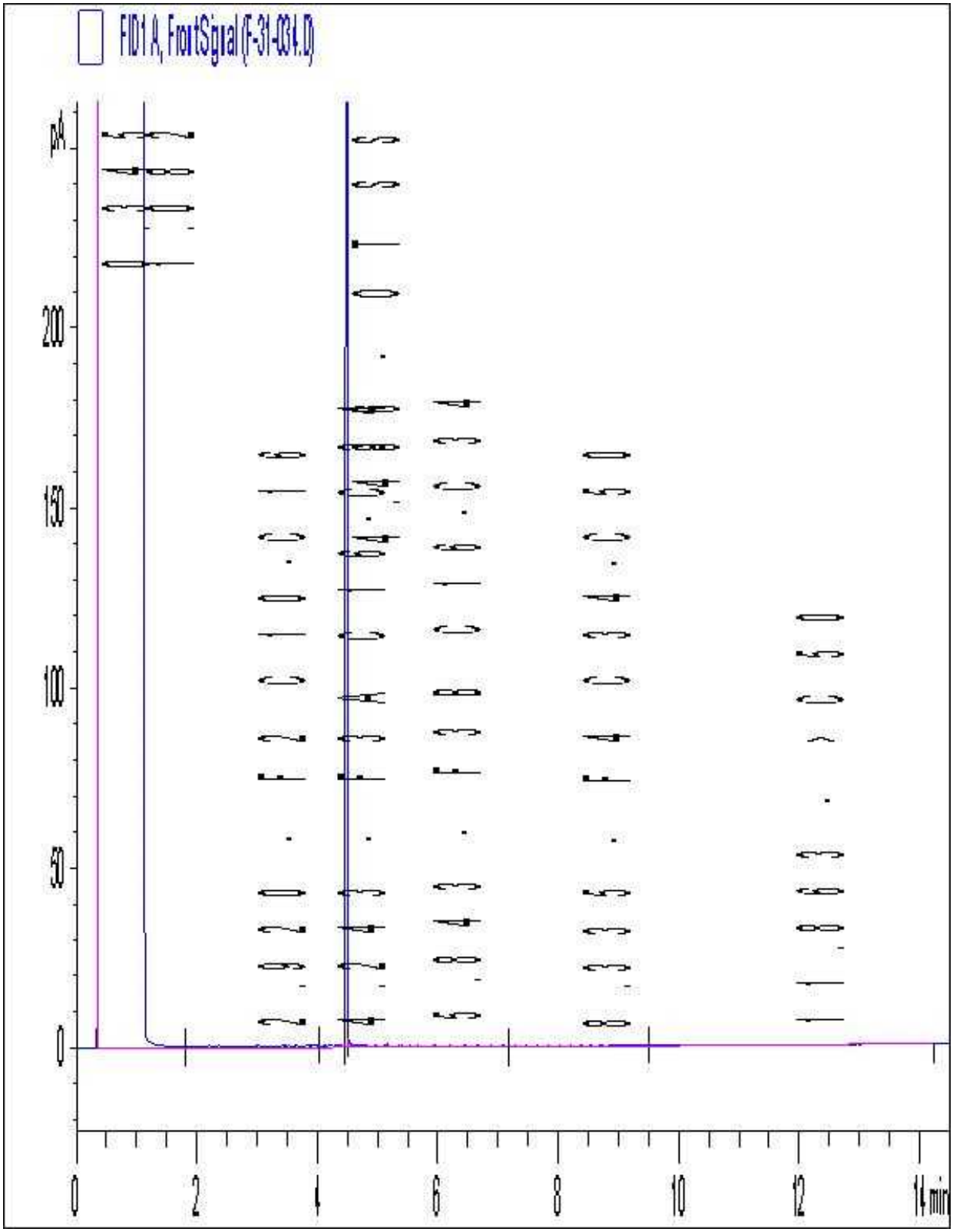


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC409

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK5

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

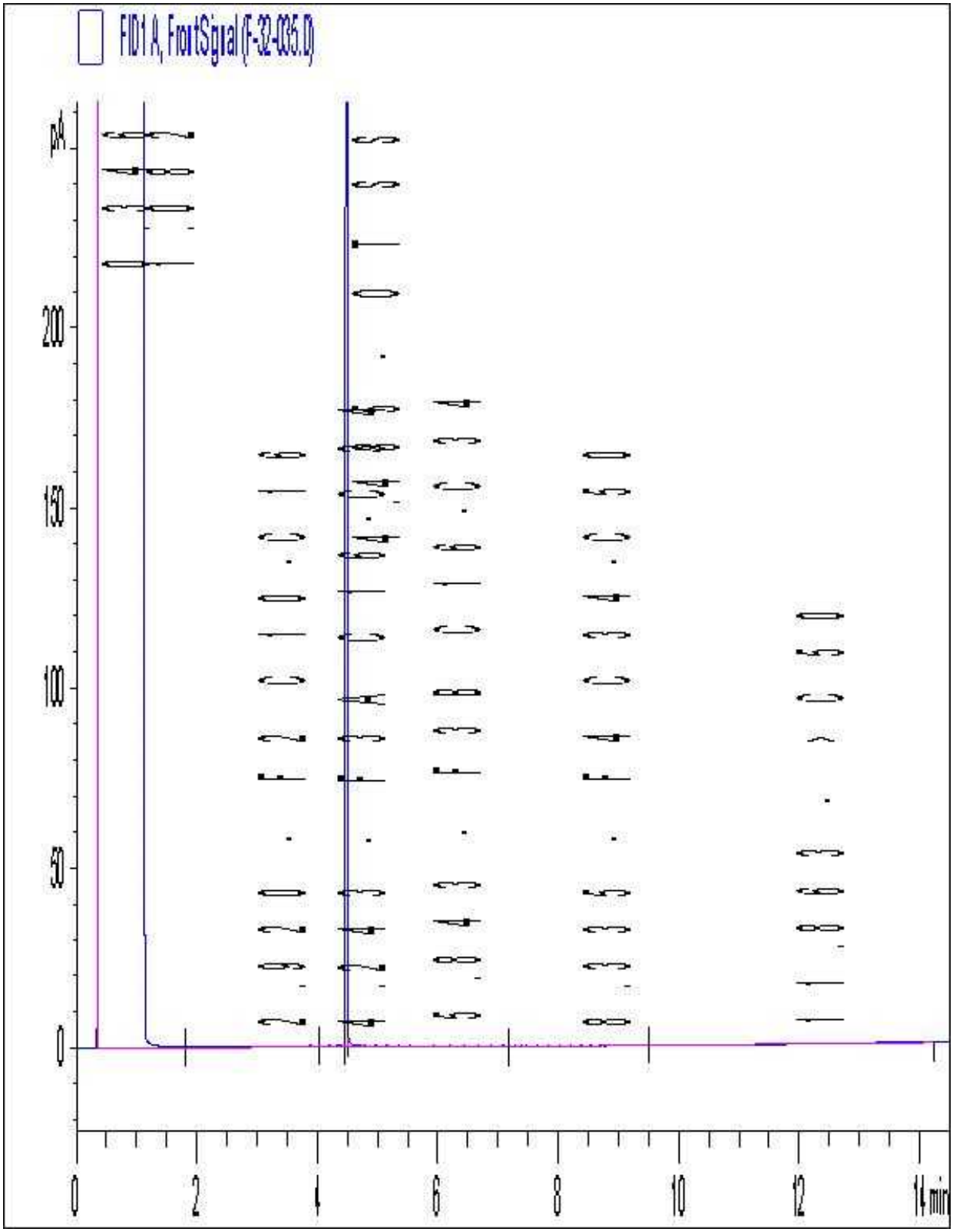


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC410

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK6

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

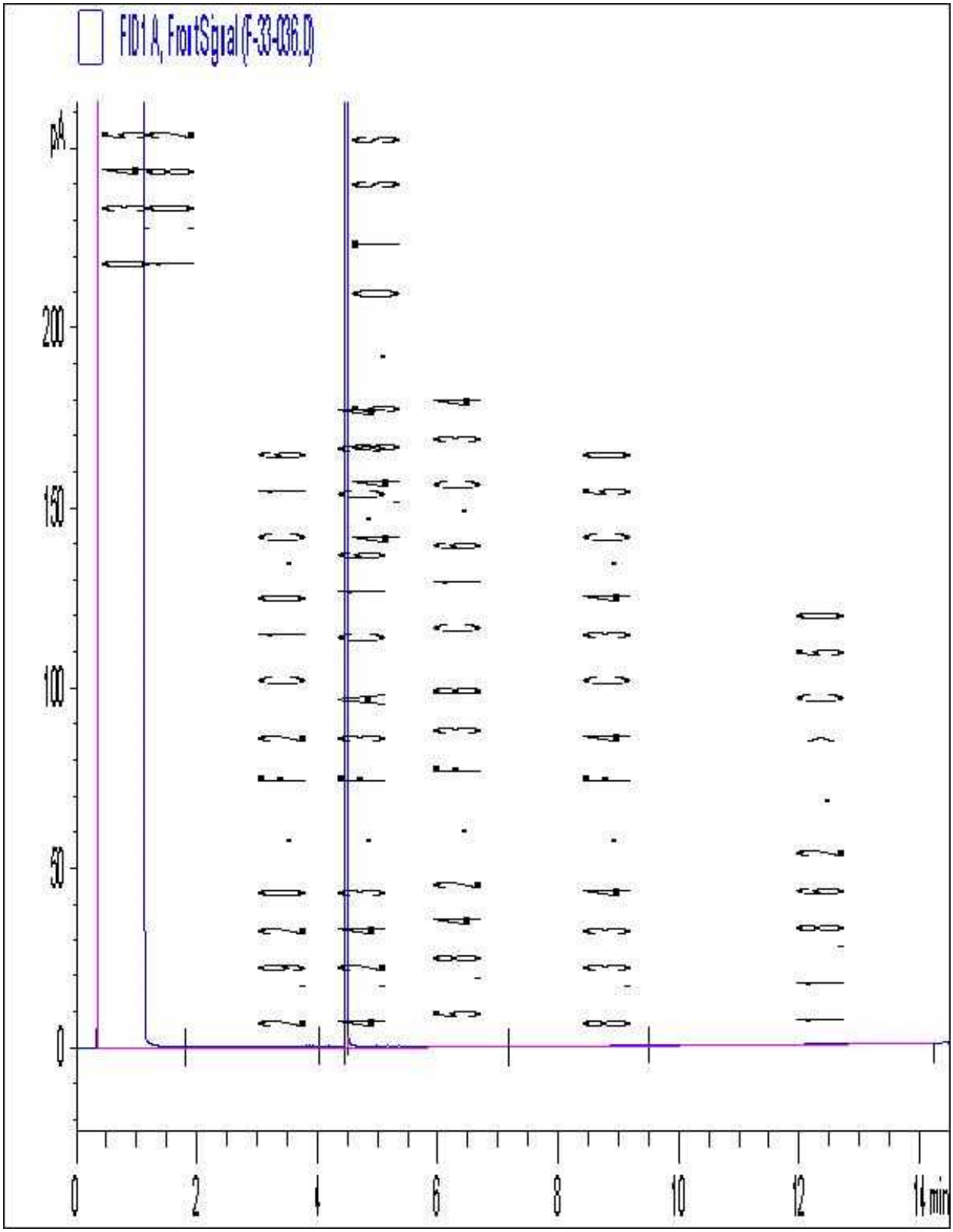


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC411

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK7

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

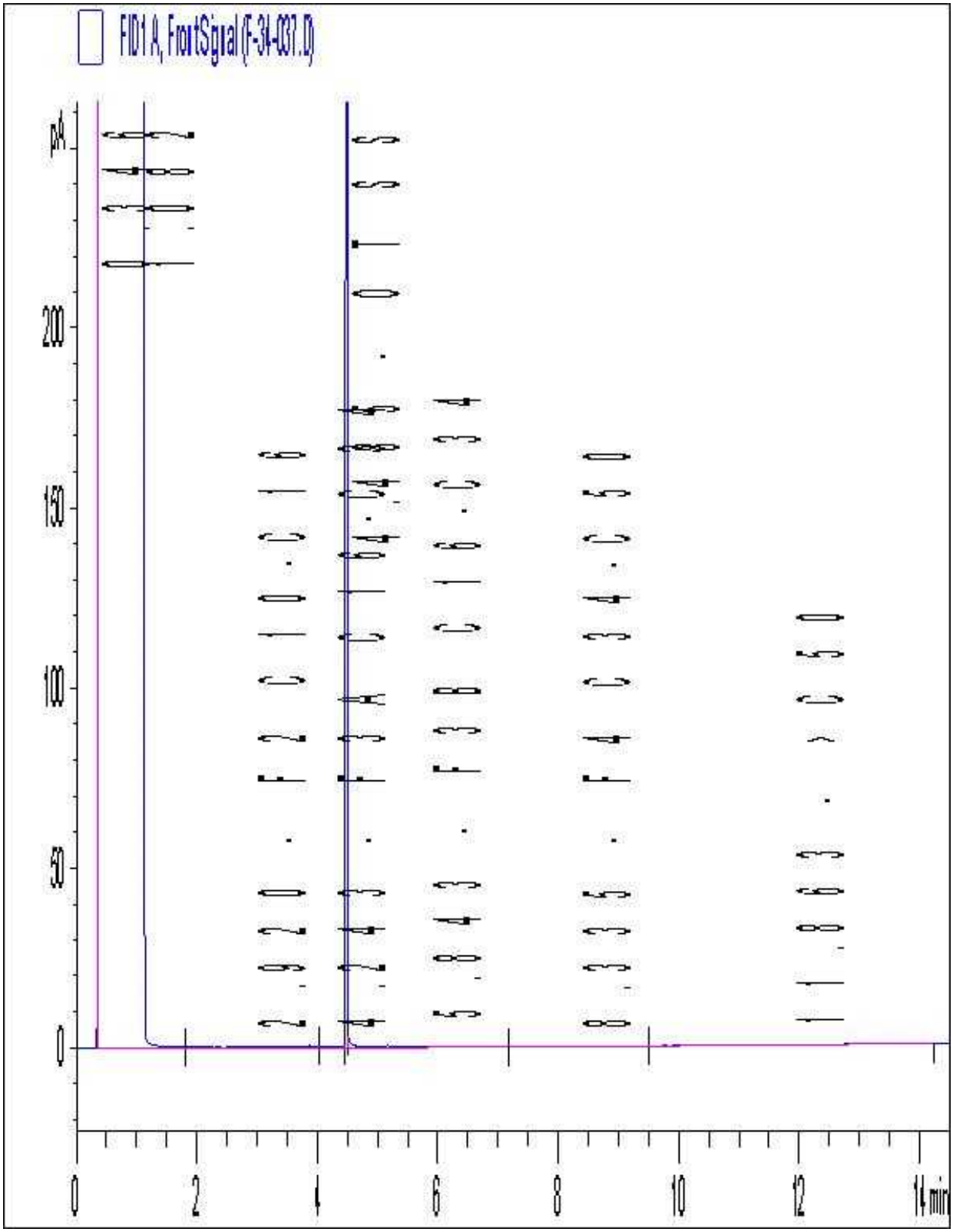


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC412

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK8

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

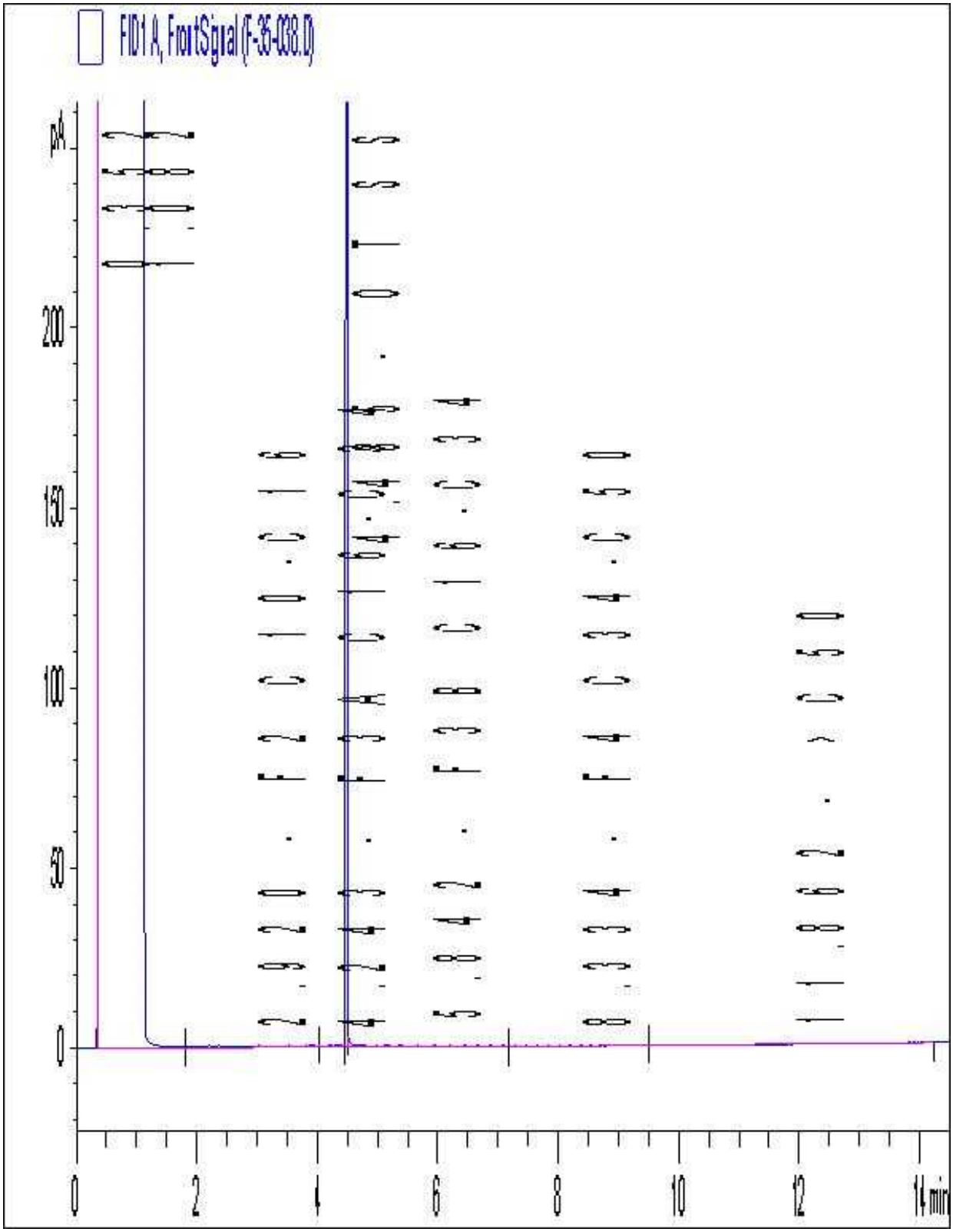


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q6729
Report Date: 2018/10/17
Maxxam Sample: HZC413

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20181009-JK9

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.