Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - PRIVATE WELL
Your C.O.C. #: 657879-02-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/04/30
Report #: R5097419
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B889899
Received: 2018/04/20, 11:00

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	5	N/A	2018/04/25	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	1	N/A	2018/04/30	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	2	2018/04/24	2018/04/24	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	3	2018/04/24	2018/04/25	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	1	2018/04/26	2018/04/27	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	5	N/A	2018/04/25		SM 22 2310
Acidity (CaCO3) in water (1)	1	N/A	2018/04/26		SM 22 2310
Alkalinity	6	N/A	2018/04/23	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	6	N/A	2018/04/24	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	6	N/A	2018/04/25		EPA 8260C m
Chloride by Automated Colourimetry	6	N/A	2018/04/22	CAM SOP-00463	EPA 325.2 m
Conductivity	6	N/A	2018/04/23	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	6	N/A	2018/04/26	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	6	N/A	2018/04/23	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (2)	3	N/A	2018/04/21	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (2)	3	N/A	2018/04/24	CAM SOP-00446	SM 23 5310 B m
Petroleum Hydrocarbons F2-F4 in Water (3)	6	2018/04/25	2018/04/26	CAM SOP-00316	CCME PHC-CWS m
Fluoride	6	2018/04/21	2018/04/23	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2018/04/23	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	3	N/A	2018/04/24	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	6	2018/04/24	2018/04/24	CAM SOP-00453	EPA 7470A m
Metals Analysis by ICPMS (as received) (4)	3	N/A	2018/04/23	CAM SOP-00447	EPA 6020B m
Metals Analysis by ICPMS (as received) (4)	3	N/A	2018/04/24	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	6	N/A	2018/04/24		
Anion and Cation Sum	6	N/A	2018/04/24		
Total Coliforms/ E. coli, CFU/100mL	6	N/A	2018/04/20	CAM SOP-00551	MOE E3407
Total Ammonia-N	6	N/A	2018/04/27	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (5)	6	N/A	2018/04/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	3	2018/04/23	2018/04/23	CAM SOP-00309	EPA 8082A m

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Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Polychlorinated Biphenyl in Water	3	2018/04/23	2018/04/24	CAM SOP-00309	EPA 8082A m
pH	6	N/A	2018/04/23	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	6	N/A	2018/04/22	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	6	N/A	2018/04/24		
Sat. pH and Langelier Index (@ 4C)	6	N/A	2018/04/24		
Sulphate by Automated Colourimetry	6	N/A	2018/04/23	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	6	N/A	2018/04/24		
Total Dissolved Solids	4	2018/04/23	2018/04/25	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	2	2018/04/25	2018/04/25	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (6)	6	N/A	2018/04/26	CAM SOP-00446	SM 23 5310B m
Total Suspended Solids	4	2018/04/23	2018/04/25	CAM SOP-00428	SM 23 2540D m
Total Suspended Solids	2	2018/04/25	2018/04/26	CAM SOP-00428	SM 23 2540D m
Turbidity	6	N/A	2018/04/21	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	6	N/A	2018/04/25	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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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

Ronklin Gracian
Project Manager
30 Apr 2018 16:12:13

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

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GMR461			GMR462		
Sampling Date		2018/04/19 09:58			2018/04/19 10:43		
COC Number		657879-02-01			657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**RDL**	**QC Batch**	**WG-160900764-20180419-JK18**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	8.44	N/A	5493630	18.1	N/A	5493630
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	340	1.0	5493621	260	1.0	5493621
Calculated TDS	mg/L	450	1.0	5493633	1000	1.0	5493633
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.2	1.0	5493621	1.2	1.0	5493621
Cation Sum	me/L	7.85	N/A	5493630	17.5	N/A	5493630
Hardness (CaCO3)	mg/L	360	1.0	5493843	320	1.0	5493843
Ion Balance (% Difference)	%	3.62	N/A	5493629	1.62	N/A	5493629
Langelier Index (@ 20C)	N/A	0.694		5493631	0.437		5493631
Langelier Index (@ 4C)	N/A	0.445		5493632	0.191		5493632
Saturation pH (@ 20C)	N/A	6.89		5493631	7.25		5493631
Saturation pH (@ 4C)	N/A	7.13		5493632	7.50		5493632
Inorganics							
Total Ammonia-N	mg/L	0.073	0.050	5498369	0.11	0.050	5500439
Conductivity	umho/cm	790	1.0	5495618	2000	1.0	5495618
Dissolved Organic Carbon	mg/L	1.2	0.50	5495645	0.94	0.50	5495648
Orthophosphate (P)	mg/L	<0.010	0.010	5495661	<0.010	0.010	5495652
pH	pH	7.58		5495619	7.69		5495619
Dissolved Sulphate (SO4)	mg/L	35	1.0	5495660	35	1.0	5495651
Alkalinity (Total as CaCO3)	mg/L	340	1.0	5495617	260	1.0	5495617
Dissolved Chloride (Cl)	mg/L	12	1.0	5495658	430	5.0	5495647
Nitrite (N)	mg/L	<0.010	0.010	5495635	<0.010	0.010	5495635
Nitrate (N)	mg/L	7.35	0.10	5495635	0.23	0.10	5495635
Metals							
. Aluminum (Al)	mg/L	0.0061	0.0050	5493637	<0.0050	0.0050	5493637
. Antimony (Sb)	mg/L	<0.00050	0.00050	5493637	<0.00050	0.00050	5493637
. Arsenic (As)	mg/L	<0.0010	0.0010	5493637	<0.0010	0.0010	5493637
. Barium (Ba)	mg/L	0.11	0.0020	5493637	0.081	0.0020	5493637
. Beryllium (Be)	mg/L	<0.00050	0.00050	5493637	<0.00050	0.00050	5493637
. Boron (B)	mg/L	0.011	0.010	5493637	0.022	0.010	5493637
. Cadmium (Cd)	mg/L	<0.00010	0.00010	5493637	<0.00010	0.00010	5493637

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

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Maxxam ID		GMR461			GMR462		
Sampling Date		2018/04/19 09:58			2018/04/19 10:43		
COC Number		657879-02-01			657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**RDL**	**QC Batch**	**WG-160900764-20180419-JK18**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	110	0.20	5493637	75	0.20	5493637
. Chromium (Cr)	mg/L	<0.0050	0.0050	5493637	<0.0050	0.0050	5493637
. Cobalt (Co)	mg/L	<0.00050	0.00050	5493637	<0.00050	0.00050	5493637
. Copper (Cu)	mg/L	0.0050	0.0010	5493637	0.022	0.0010	5493637
. Iron (Fe)	mg/L	<0.10	0.10	5493637	<0.10	0.10	5493637
. Lead (Pb)	mg/L	0.00085	0.00050	5493637	<0.00050	0.00050	5493637
. Magnesium (Mg)	mg/L	23	0.050	5493637	32	0.050	5493637
. Manganese (Mn)	mg/L	0.0037	0.0020	5493637	0.022	0.0020	5493637
. Molybdenum (Mo)	mg/L	<0.00050	0.00050	5493637	<0.00050	0.00050	5493637
. Nickel (Ni)	mg/L	<0.0010	0.0010	5493637	<0.0010	0.0010	5493637
. Phosphorus (P)	mg/L	<0.10	0.10	5493637	<0.10	0.10	5493637
. Potassium (K)	mg/L	9.1	0.20	5493637	1.4	0.20	5493637
. Selenium (Se)	mg/L	<0.0020	0.0020	5493637	<0.0020	0.0020	5493637
. Silicon (Si)	mg/L	7.2	0.050	5493637	7.5	0.050	5493637
. Silver (Ag)	mg/L	<0.00010	0.00010	5493637	<0.00010	0.00010	5493637
. Sodium (Na)	mg/L	8.9	0.10	5493637	250	0.10	5493637
. Strontium (Sr)	mg/L	0.27	0.0010	5493637	0.32	0.0010	5493637
. Thallium (Tl)	mg/L	<0.000050	0.000050	5493637	<0.000050	0.000050	5493637
. Titanium (Ti)	mg/L	<0.0050	0.0050	5493637	<0.0050	0.0050	5493637
. Uranium (U)	mg/L	0.0011	0.00010	5493637	0.00022	0.00010	5493637
. Vanadium (V)	mg/L	<0.00050	0.00050	5493637	<0.00050	0.00050	5493637
. Zinc (Zn)	mg/L	0.099	0.0050	5493637	0.21	0.0050	5493637
. Zirconium (Zr)	mg/L	<0.0010	0.0010	5493637	<0.0010	0.0010	5493637

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GMR462			GMR463		
Sampling Date		2018/04/19 10:43			2018/04/19 11:35		
COC Number		657879-02-01			657879-02-01		
	UNITS	**WG-160900764-20180419-JK18 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L				4.54	N/A	5493630
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				210	1.0	5493621
Calculated TDS	mg/L				240	1.0	5493633
Carb. Alkalinity (calc. as CaCO3)	mg/L				1.4	1.0	5493621
Cation Sum	me/L				4.38	N/A	5493630
Hardness (CaCO3)	mg/L				200	1.0	5493843
Ion Balance (% Difference)	%				1.77	N/A	5493629
Langelier Index (@ 20C)	N/A				0.514		5493631
Langelier Index (@ 4C)	N/A				0.265		5493632
Saturation pH (@ 20C)	N/A				7.33		5493631
Saturation pH (@ 4C)	N/A				7.58		5493632
Inorganics							
Total Ammonia-N	mg/L	0.093	0.050	5500439	0.17	0.050	5498369
Conductivity	umho/cm				400	1.0	5495618
Dissolved Organic Carbon	mg/L				1.2	0.50	5495645
Orthophosphate (P)	mg/L				<0.010	0.010	5495661
pH	pH				7.84		5495619
Dissolved Sulphate (SO4)	mg/L				14	1.0	5495660
Alkalinity (Total as CaCO3)	mg/L				210	1.0	5495617
Dissolved Chloride (Cl)	mg/L				1.8	1.0	5495658
Nitrite (N)	mg/L				<0.010	0.010	5495635
Nitrate (N)	mg/L				<0.10	0.10	5495635
Metals							
. Aluminum (Al)	mg/L				<0.0050	0.0050	5493637
. Antimony (Sb)	mg/L				<0.00050	0.00050	5493637
. Arsenic (As)	mg/L				<0.0010	0.0010	5493637
. Barium (Ba)	mg/L				0.16	0.0020	5493637
. Beryllium (Be)	mg/L				<0.00050	0.00050	5493637
. Boron (B)	mg/L				0.013	0.010	5493637

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Maxxam ID		GMR462			GMR463		
Sampling Date		2018/04/19 10:43			2018/04/19 11:35		
COC Number		657879-02-01			657879-02-01		
	UNITS	**WG-160900764-20180419-JK18 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L				<0.00010	0.00010	5493637
. Calcium (Ca)	mg/L				56	0.20	5493637
. Chromium (Cr)	mg/L				<0.0050	0.0050	5493637
. Cobalt (Co)	mg/L				<0.00050	0.00050	5493637
. Copper (Cu)	mg/L				0.0016	0.0010	5493637
. Iron (Fe)	mg/L				1.4	0.10	5493637
. Lead (Pb)	mg/L				<0.00050	0.00050	5493637
. Magnesium (Mg)	mg/L				16	0.050	5493637
. Manganese (Mn)	mg/L				0.023	0.0020	5493637
. Molybdenum (Mo)	mg/L				0.00053	0.00050	5493637
. Nickel (Ni)	mg/L				<0.0010	0.0010	5493637
. Phosphorus (P)	mg/L				<0.10	0.10	5493637
. Potassium (K)	mg/L				0.95	0.20	5493637
. Selenium (Se)	mg/L				<0.0020	0.0020	5493637
. Silicon (Si)	mg/L				10	0.050	5493637
. Silver (Ag)	mg/L				<0.00010	0.00010	5493637
. Sodium (Na)	mg/L				4.8	0.10	5493637
. Strontium (Sr)	mg/L				0.23	0.0010	5493637
. Thallium (Tl)	mg/L				<0.000050	0.000050	5493637
. Titanium (Ti)	mg/L				<0.0050	0.0050	5493637
. Uranium (U)	mg/L				<0.00010	0.00010	5493637
. Vanadium (V)	mg/L				<0.00050	0.00050	5493637
. Zinc (Zn)	mg/L				0.0063	0.0050	5493637
. Zirconium (Zr)	mg/L				<0.0010	0.0010	5493637

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RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GMR464	GMR465		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51		
COC Number		657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**RDL**	**QC Batch**
Calculated Parameters					
Anion Sum	me/L	8.79	9.15	N/A	5493630
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	330	310	1.0	5493621
Calculated TDS	mg/L	480	480	1.0	5493633
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.6	1.5	1.0	5493621
Cation Sum	me/L	8.83	8.88	N/A	5493630
Hardness (CaCO3)	mg/L	380	400	1.0	5493843
Ion Balance (% Difference)	%	0.230	1.51	N/A	5493629
Langelier Index (@ 20C)	N/A	0.885	0.794		5493631
Langelier Index (@ 4C)	N/A	0.637	0.546		5493632
Saturation pH (@ 20C)	N/A	6.82	6.90		5493631
Saturation pH (@ 4C)	N/A	7.07	7.15		5493632
Inorganics					
Total Ammonia-N	mg/L	<0.050	0.086	0.050	5500863
Conductivity	umho/cm	870	880	1.0	5495618
Dissolved Organic Carbon	mg/L	1.5	0.78	0.50	5499122
Orthophosphate (P)	mg/L	0.013	<0.010	0.010	5495661
pH	pH	7.70	7.69		5495619
Dissolved Sulphate (SO4)	mg/L	20	37	1.0	5495660
Alkalinity (Total as CaCO3)	mg/L	330	320	1.0	5495617
Dissolved Chloride (Cl)	mg/L	41	71	1.0	5495658
Nitrite (N)	mg/L	<0.010	<0.010	0.010	5495635
Nitrate (N)	mg/L	7.96	1.01	0.10	5495635
Metals					
. Aluminum (Al)	mg/L	<0.0050	<0.0050	0.0050	5497153
. Antimony (Sb)	mg/L	<0.00050	<0.00050	0.00050	5497153
. Arsenic (As)	mg/L	<0.0010	<0.0010	0.0010	5497153
. Barium (Ba)	mg/L	0.044	0.063	0.0020	5497153
. Beryllium (Be)	mg/L	<0.00050	<0.00050	0.00050	5497153
. Boron (B)	mg/L	0.033	<0.010	0.010	5497153
. Cadmium (Cd)	mg/L	<0.00010	<0.00010	0.00010	5497153

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

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GMR464	GMR465		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51		
COC Number		657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**RDL**	**QC Batch**
. Calcium (Ca)	mg/L	130	110	0.20	5497153
. Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	5497153
. Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	5497153
. Copper (Cu)	mg/L	<0.0010	0.0074	0.0010	5497153
. Iron (Fe)	mg/L	<0.10	0.34	0.10	5497153
. Lead (Pb)	mg/L	<0.00050	0.0011	0.00050	5497153
. Magnesium (Mg)	mg/L	12	27	0.050	5497153
. Manganese (Mn)	mg/L	<0.0020	0.0030	0.0020	5497153
. Molybdenum (Mo)	mg/L	<0.00050	<0.00050	0.00050	5497153
. Nickel (Ni)	mg/L	<0.0010	<0.0010	0.0010	5497153
. Phosphorus (P)	mg/L	<0.10	<0.10	0.10	5497153
. Potassium (K)	mg/L	1.6	1.8	0.20	5497153
. Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	5497153
. Silicon (Si)	mg/L	5.1	6.3	0.050	5497153
. Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	5497153
. Sodium (Na)	mg/L	28	19	0.10	5497153
. Strontium (Sr)	mg/L	0.25	0.27	0.0010	5497153
. Thallium (Tl)	mg/L	<0.000050	<0.000050	0.000050	5497153
. Titanium (Ti)	mg/L	<0.0050	<0.0050	0.0050	5497153
. Uranium (U)	mg/L	0.00078	0.016	0.00010	5497153
. Vanadium (V)	mg/L	<0.00050	<0.00050	0.00050	5497153
. Zinc (Zn)	mg/L	<0.0050	0.011	0.0050	5497153
. Zirconium (Zr)	mg/L	<0.0010	<0.0010	0.0010	5497153

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QC Batch = Quality Control Batch

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GMR465			GMR466		
Sampling Date		2018/04/19 12:51			2018/04/20 09:10		
COC Number		657879-02-01			657879-02-01		
	UNITS	**WG-160900764-20180419-JK21 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L				7.46	N/A	5493630
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				360	1.0	5493621
Calculated TDS	mg/L				430	1.0	5493633
Carb. Alkalinity (calc. as CaCO3)	mg/L				1.9	1.0	5493621
Cation Sum	me/L				6.99	N/A	5493630
Hardness (CaCO3)	mg/L				5.6	1.0	5493843
Ion Balance (% Difference)	%				3.25	N/A	5493629
Langelier Index (@ 20C)	N/A				-1.16		5493631
Langelier Index (@ 4C)	N/A				-1.41		5493632
Saturation pH (@ 20C)	N/A				8.91		5493631
Saturation pH (@ 4C)	N/A				9.16		5493632
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5500863	<0.050	0.050	5500863
Conductivity	umho/cm				740	1.0	5495618
Dissolved Organic Carbon	mg/L				1.2	0.50	5499122
Orthophosphate (P)	mg/L				<0.010	0.010	5495672
pH	pH				7.76		5495619
Dissolved Sulphate (SO4)	mg/L				6.0	1.0	5495671
Alkalinity (Total as CaCO3)	mg/L				360	1.0	5495617
Dissolved Chloride (Cl)	mg/L				2.7	1.0	5495670
Nitrite (N)	mg/L				<0.010	0.010	5495635
Nitrate (N)	mg/L				<0.10	0.10	5495635
Metals							
. Aluminum (Al)	mg/L				<0.0050	0.0050	5497153
. Antimony (Sb)	mg/L				<0.00050	0.00050	5497153
. Arsenic (As)	mg/L				<0.0010	0.0010	5497153
. Barium (Ba)	mg/L				<0.0020	0.0020	5497153
. Beryllium (Be)	mg/L				<0.00050	0.00050	5497153
. Boron (B)	mg/L				<0.010	0.010	5497153

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

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

RCAP - COMPREHENSIVE (DRINKING WATER)

Maxxam ID		GMR465			GMR466		
Sampling Date		2018/04/19 12:51			2018/04/20 09:10		
COC Number		657879-02-01			657879-02-01		
	UNITS	**WG-160900764-20180419-JK21 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
. Cadmium (Cd)	mg/L				<0.00010	0.00010	5497153
. Calcium (Ca)	mg/L				0.95	0.20	5497153
. Chromium (Cr)	mg/L				<0.0050	0.0050	5497153
. Cobalt (Co)	mg/L				<0.00050	0.00050	5497153
. Copper (Cu)	mg/L				0.023	0.0010	5497153
. Iron (Fe)	mg/L				<0.10	0.10	5497153
. Lead (Pb)	mg/L				<0.00050	0.00050	5497153
. Magnesium (Mg)	mg/L				0.78	0.050	5497153
. Manganese (Mn)	mg/L				<0.0020	0.0020	5497153
. Molybdenum (Mo)	mg/L				<0.00050	0.00050	5497153
. Nickel (Ni)	mg/L				<0.0010	0.0010	5497153
. Phosphorus (P)	mg/L				<0.10	0.10	5497153
. Potassium (K)	mg/L				92	0.20	5497153
. Selenium (Se)	mg/L				<0.0020	0.0020	5497153
. Silicon (Si)	mg/L				3.9	0.050	5497153
. Silver (Ag)	mg/L				<0.00010	0.00010	5497153
. Sodium (Na)	mg/L				100	0.10	5497153
. Strontium (Sr)	mg/L				0.0019	0.0010	5497153
. Thallium (Tl)	mg/L				<0.000050	0.000050	5497153
. Titanium (Ti)	mg/L				<0.0050	0.0050	5497153
. Uranium (U)	mg/L				0.00023	0.00010	5497153
. Vanadium (V)	mg/L				<0.00050	0.00050	5497153
. Zinc (Zn)	mg/L				<0.0050	0.0050	5497153
. Zirconium (Zr)	mg/L				<0.0010	0.0010	5497153

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

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		GMR461		GMR462	GMR463		
Sampling Date		2018/04/19 09:58		2018/04/19 10:43	2018/04/19 11:35		
COC Number		657879-02-01		657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**QC Batch**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L	29	5500583	17	5.8	5.0	5500583
Total Dissolved Solids	mg/L	425	5501563	940	220	10	5497155
Fluoride (F-)	mg/L	<0.10	5495620	<0.10	0.12	0.10	5495620
Total Organic Carbon (TOC)	mg/L	1.3	5498216	0.92	1.3	0.50	5498216
Total Suspended Solids	mg/L	<10	5502252	<10	<10	10	5497144
Turbidity	NTU	<0.1	5494786	0.2	3.2	0.1	5494786
WAD Cyanide (Free)	ug/L	<1	5496549	<1	<1	1	5496549

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		GMR464	GMR465		GMR466		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51		2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01		657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**QC Batch**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L	33	21	5500583	24	5.0	5502201
Total Dissolved Solids	mg/L	475	455	5497155	420	10	5501563
Fluoride (F-)	mg/L	<0.10	<0.10	5495620	<0.10	0.10	5495620
Total Organic Carbon (TOC)	mg/L	1.6	0.84	5500877	1.3	0.50	5500877
Total Suspended Solids	mg/L	<10	<10	5497144	<10	10	5502252
Turbidity	NTU	<0.1	0.5	5494786	<0.1	0.1	5494786
WAD Cyanide (Free)	ug/L	<1	<1	5496549	<1	1	5496549

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Client Project #: 160900764
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RESULTS OF ANALYSES OF WATER

Maxxam ID		GMR466		
Sampling Date		2018/04/20 09:10		
COC Number		657879-02-01		
	UNITS	**WG-160900764-20180420-JK22 Lab-Dup**	**RDL**	**QC Batch**
Inorganics				
Total Organic Carbon (TOC)	mg/L	1.3	0.50	5500877

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

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		GMR461	GMR462	GMR463	GMR464		
Sampling Date		2018/04/19 09:58	2018/04/19 10:43	2018/04/19 11:35	2018/04/19 12:20		
COC Number		657879-02-01	657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**WG-160900764-20180419-JK20**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	0.86	<0.50	<0.50	<0.50	0.50	5497034
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497806

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		GMR465	GMR466		
Sampling Date		2018/04/19 12:51	2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Metals					
Chromium (VI)	ug/L	<0.50	<0.50	0.50	5497034
Mercury (Hg)	ug/L	0.3	<0.1	0.1	5497806

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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MICROBIOLOGY (WATER)

Maxxam ID		GMR461	GMR462	GMR463	GMR464	
Sampling Date		2018/04/19 09:58	2018/04/19 10:43	2018/04/19 11:35	2018/04/19 12:20	
COC Number		657879-02-01	657879-02-01	657879-02-01	657879-02-01	
	UNITS	**WG-160900764-20180419-JK17**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**WG-160900764-20180419-JK20**	**QC Batch**
Microbiological						
Background	CFU/100mL	8	0	26	33	5494154
Total Coliforms	CFU/100mL	0	0	0	12	5494154
Escherichia coli	CFU/100mL	0	0	0	0	5494154
QC Batch = Quality Control Batch						

Maxxam ID		GMR465	GMR466	
Sampling Date		2018/04/19 12:51	2018/04/20 09:10	
COC Number		657879-02-01	657879-02-01	
	UNITS	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**QC Batch**
Microbiological				
Background	CFU/100mL	0	0	5494154
Total Coliforms	CFU/100mL	0	0	5494154
Escherichia coli	CFU/100mL	0	0	5494154
QC Batch = Quality Control Batch				

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O.REG 153 PCBS (WATER)

Maxxam ID		GMR461	GMR461	GMR462	GMR463		
Sampling Date		2018/04/19 09:58	2018/04/19 09:58	2018/04/19 10:43	2018/04/19 11:35		
COC Number		657879-02-01	657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**WG-160900764-20180419-JK17 Lab-Dup**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5496644
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5496644
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5496644
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5496644
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5496644
Surrogate Recovery (%)							
Decachlorobiphenyl	%	115	116	116	109		5496644

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

Maxxam ID		GMR464	GMR465	GMR466		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51	2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
PCBs						
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	5496644
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	5496644
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	5496644
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	5496644
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	5496644
Surrogate Recovery (%)						
Decachlorobiphenyl	%	105	105	109		5496644

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Stantec Consulting Ltd
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Site Location: CLARINGTON TS - PRIVATE WELL
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O.REG 153 VOCS BY HS & F1-F4 (WATER)

Maxxam ID		GMR461	GMR462	GMR463		
Sampling Date		2018/04/19 09:58	2018/04/19 10:43	2018/04/19 11:35		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5493697
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5496164
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Bromodichloromethane	ug/L	<0.50	0.62	<0.50	0.50	5496164
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5496164
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Chloroform	ug/L	<0.20	2.7	<0.20	0.20	5496164
Dibromochloromethane	ug/L	<0.50	0.81	<0.50	0.50	5496164
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5496164
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5496164
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5496164
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5496164
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5496164
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5496164
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5496164
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5496164
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5496164
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5496164

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B889899
Report Date: 2018/04/30

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		GMR461	GMR462	GMR463		
Sampling Date		2018/04/19 09:58	2018/04/19 10:43	2018/04/19 11:35		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5496164
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5496164
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5496164
F1 (C6-C10)	ug/L	<25	<25	<25	25	5496164
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5496164
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5500137
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5500137
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5500137
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5500137
Surrogate Recovery (%)						
o-Terphenyl	%	94	94	94		5500137
4-Bromofluorobenzene	%	106	104	105		5496164
D4-1,2-Dichloroethane	%	76	77	78		5496164
D8-Toluene	%	96	97	97		5496164

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B889899
Report Date: 2018/04/30

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		GMR464	GMR465	GMR466		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51	2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	5493697
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	5496164
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	5496164
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	5496164
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5496164
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	5496164
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	5496164
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	5496164
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	5496164
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	5496164
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	5496164
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	5496164
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	5496164

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B889899
Report Date: 2018/04/30

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		GMR464	GMR465	GMR466		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51	2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	5496164
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	5496164
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	5496164
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	5496164
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	5496164
F1 (C6-C10)	ug/L	<25	<25	<25	25	5496164
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	5496164
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	5500137
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	5500137
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	5500137
Reached Baseline at C50	ug/L	Yes	Yes	Yes		5500137
Surrogate Recovery (%)						
o-Terphenyl	%	95	95	94		5500137
4-Bromofluorobenzene	%	104	103	104		5496164
D4-1,2-Dichloroethane	%	78	79	79		5496164
D8-Toluene	%	96	96	96		5496164

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMR461		GMR462	GMR463		
Sampling Date		2018/04/19 09:58		2018/04/19 10:43	2018/04/19 11:35		
COC Number		657879-02-01		657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**QC Batch**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
1-Methylnaphthalene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
2,4,5-Trichlorophenol	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
2,4,6-Trichlorophenol	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
2,4-Dichlorophenol	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
2,4-Dimethylphenol	ug/L	<0.5	5503338	<0.5	<0.5	0.5	5497891
2,4-Dinitrophenol	ug/L	<2	5503338	<2	<2	2	5497891
2,4-Dinitrotoluene	ug/L	<0.3	5503338	<0.3	<0.3	0.3	5497891
2,6-Dinitrotoluene	ug/L	<0.3	5503338	<0.3	<0.3	0.3	5497891
2-Chlorophenol	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
2-Methylnaphthalene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
3,3'-Dichlorobenzidine	ug/L	<0.5	5503338	<0.5	<0.5	0.5	5497891
Acenaphthene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
Acenaphthylene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
Anthracene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Benzo(a)anthracene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Benzo(a)pyrene	ug/L	<0.01	5503338	<0.01	<0.01	0.01	5497891
Benzo(b/j)fluoranthene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Benzo(g,h,i)perylene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Benzo(k)fluoranthene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Biphenyl	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Bis(2-chloroethyl)ether	ug/L	<0.5	5503338	<0.5	<0.5	0.5	5497891
Bis(2-chloroisopropyl)ether	ug/L	<0.5	5503338	<0.5	<0.5	0.5	5497891
Bis(2-ethylhexyl)phthalate	ug/L	<1	5503338	<1	<1	1	5497891
Chrysene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Dibenz(a,h)anthracene	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Diethyl phthalate	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Dimethyl phthalate	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Fluoranthene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
Fluorene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMR461		GMR462	GMR463		
Sampling Date		2018/04/19 09:58		2018/04/19 10:43	2018/04/19 11:35		
COC Number		657879-02-01		657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK17**	**QC Batch**	**WG-160900764-20180419-JK18**	**WG-160900764-20180419-JK19**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Naphthalene	ug/L	<0.2	5503338	<0.2	<0.2	0.2	5497891
p-Chloroaniline	ug/L	<1	5503338	<1	<1	1	5497891
Pentachlorophenol	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Phenanthrene	ug/L	<0.1	5503338	<0.1	<0.1	0.1	5497891
Phenol	ug/L	<0.5	5503338	<0.5	<0.5	0.5	5497891
Pyrene	ug/L	<0.05	5503338	<0.05	<0.05	0.05	5497891
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	5493571	<0.28	<0.28	0.28	5493571
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	47 (1)	5503338	47 (1)	80		5497891
2-Fluorobiphenyl	%	25 (1)	5503338	35 (1)	67		5497891
D14-Terphenyl (FS)	%	106	5503338	102	104		5497891
D5-Nitrobenzene	%	34 (1)	5503338	35 (1)	71		5497891

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 #: B889899
Report Date: 2018/04/30

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMR464	GMR465	GMR466		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51	2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	0.1	5497891
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5497891
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5497891
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	0.2	5497891
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5497891
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	0.5	5497891
2,4-Dinitrophenol	ug/L	<2	<2	<2	2	5497891
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5497891
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	0.3	5497891
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5497891
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5497891
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	0.5	5497891
Acenaphthene	ug/L	<0.2	<0.2	<0.2	0.2	5497891
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	0.2	5497891
Anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01	5497891
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Biphenyl	ug/L	<0.1	<0.1	<0.1	0.1	5497891
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5497891
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	0.5	5497891
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	1	5497891
Chrysene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	0.1	5497891
Diethyl phthalate	ug/L	0.4	<0.1	<0.1	0.1	5497891
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	0.1	5497891
Fluoranthene	ug/L	<0.2	<0.2	<0.2	0.2	5497891
Fluorene	ug/L	<0.2	<0.2	<0.2	0.2	5497891

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMR464	GMR465	GMR466		
Sampling Date		2018/04/19 12:20	2018/04/19 12:51	2018/04/20 09:10		
COC Number		657879-02-01	657879-02-01	657879-02-01		
	UNITS	**WG-160900764-20180419-JK20**	**WG-160900764-20180419-JK21**	**WG-160900764-20180420-JK22**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	0.1	5497891
Naphthalene	ug/L	<0.2	<0.2	<0.2	0.2	5497891
p-Chloroaniline	ug/L	<1	<1	<1	1	5497891
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	0.1	5497891
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1	5497891
Phenol	ug/L	<0.5	<0.5	<0.5	0.5	5497891
Pyrene	ug/L	<0.05	<0.05	<0.05	0.05	5497891
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	0.28	5493571
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	66	56	77		5497891
2-Fluorobiphenyl	%	55	43 (1)	62		5497891
D14-Terphenyl (FS)	%	104	104	102		5497891
D5-Nitrobenzene	%	60	49 (1)	62		5497891

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 #: B889899
Report Date: 2018/04/30

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMR466		
Sampling Date		2018/04/20 09:10		
COC Number		657879-02-01		
	UNITS	**WG-160900764-20180420-JK22 Lab-Dup**	**RDL**	**QC Batch**
Semivolatile Organics				
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	5497891
1-Methylnaphthalene	ug/L	<0.2	0.2	5497891
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	5497891
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	5497891
2,4-Dichlorophenol	ug/L	<0.1	0.1	5497891
2,4-Dimethylphenol	ug/L	<0.5	0.5	5497891
2,4-Dinitrophenol	ug/L	<2	2	5497891
2,4-Dinitrotoluene	ug/L	<0.3	0.3	5497891
2,6-Dinitrotoluene	ug/L	<0.3	0.3	5497891
2-Chlorophenol	ug/L	<0.1	0.1	5497891
2-Methylnaphthalene	ug/L	<0.2	0.2	5497891
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	5497891
Acenaphthene	ug/L	<0.2	0.2	5497891
Acenaphthylene	ug/L	<0.2	0.2	5497891
Anthracene	ug/L	<0.05	0.05	5497891
Benzo(a)anthracene	ug/L	<0.05	0.05	5497891
Benzo(a)pyrene	ug/L	<0.01	0.01	5497891
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	5497891
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5497891
Benzo(k)fluoranthene	ug/L	<0.05	0.05	5497891
Biphenyl	ug/L	<0.1	0.1	5497891
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	5497891
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	5497891
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	5497891
Chrysene	ug/L	<0.05	0.05	5497891
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	5497891
Diethyl phthalate	ug/L	<0.1	0.1	5497891
Dimethyl phthalate	ug/L	<0.1	0.1	5497891
Fluoranthene	ug/L	<0.2	0.2	5497891
Fluorene	ug/L	<0.2	0.2	5497891

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

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMR466		
Sampling Date		2018/04/20 09:10		
COC Number		657879-02-01		
	UNITS	**WG-160900764-20180420-JK22 Lab-Dup**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	5497891
Naphthalene	ug/L	<0.2	0.2	5497891
p-Chloroaniline	ug/L	<1	1	5497891
Pentachlorophenol	ug/L	<0.1	0.1	5497891
Phenanthrene	ug/L	<0.1	0.1	5497891
Phenol	ug/L	<0.5	0.5	5497891
Pyrene	ug/L	<0.05	0.05	5497891
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	78		5497891
2-Fluorobiphenyl	%	58		5497891
D14-Terphenyl (FS)	%	102		5497891
D5-Nitrobenzene	%	59		5497891

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

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

TEST SUMMARY

Maxxam ID: GMR461
Sample ID: WG-160900764-20180419-JK17
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5493571	N/A	2018/04/30	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5503338	2018/04/26	2018/04/27	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5495617	N/A	2018/04/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5493621	N/A	2018/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	5493697	N/A	2018/04/25	Automated Statchk
Chloride by Automated Colourimetry	KONE	5495658	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5495618	N/A	2018/04/23	Surinder Rai
Chromium (VI) in Water	IC	5497034	N/A	2018/04/26	Sally Coughlin
Free (WAD) Cyanide	SKAL/CN	5496549	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5495645	N/A	2018/04/21	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5500137	2018/04/25	2018/04/26	(Kent) Maolin Li
Fluoride	ISE	5495620	2018/04/21	2018/04/23	Surinder Rai
Hardness (calculated as CaCO3)		5493843	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5493637	N/A	2018/04/23	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5493629	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5493630	N/A	2018/04/24	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5494154	N/A	2018/04/20	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	5498369	N/A	2018/04/27	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5495635	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/23	Sarah Huang
pH	AT	5495619	N/A	2018/04/23	Surinder Rai
Orthophosphate	KONE	5495661	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5493631	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5493632	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5495660	N/A	2018/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5493633	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5501563	2018/04/25	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5498216	N/A	2018/04/26	Anastasia Hamanov
Total Suspended Solids	BAL	5502252	2018/04/25	2018/04/26	Fang Wang
Turbidity	AT	5494786	N/A	2018/04/21	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5496164	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMR461 Dup
Sample ID: WG-160900764-20180419-JK17
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/23	Sarah Huang

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

TEST SUMMARY

Maxxam ID: GMR462
Sample ID: WG-160900764-20180419-JK18
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5493571	N/A	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/24	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5495617	N/A	2018/04/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5493621	N/A	2018/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	5493697	N/A	2018/04/25	Automated Statchk
Chloride by Automated Colourimetry	KONE	5495647	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5495618	N/A	2018/04/23	Surinder Rai
Chromium (VI) in Water	IC	5497034	N/A	2018/04/26	Sally Coughlin
Free (WAD) Cyanide	SKAL/CN	5496549	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5495648	N/A	2018/04/21	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5500137	2018/04/25	2018/04/26	(Kent) Maolin Li
Fluoride	ISE	5495620	2018/04/21	2018/04/23	Surinder Rai
Hardness (calculated as CaCO3)		5493843	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5493637	N/A	2018/04/23	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5493629	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5493630	N/A	2018/04/24	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5494154	N/A	2018/04/20	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	5500439	N/A	2018/04/27	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5495635	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/23	Sarah Huang
pH	AT	5495619	N/A	2018/04/23	Surinder Rai
Orthophosphate	KONE	5495652	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5493631	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5493632	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5495651	N/A	2018/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5493633	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5497155	2018/04/23	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5498216	N/A	2018/04/26	Anastasia Hamanov
Total Suspended Solids	BAL	5497144	2018/04/23	2018/04/25	Fang Wang
Turbidity	AT	5494786	N/A	2018/04/21	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5496164	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMR462 Dup
Sample ID: WG-160900764-20180419-JK18
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	5500439	N/A	2018/04/27	Parminder Sangha

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

TEST SUMMARY

Maxxam ID: GMR463
Sample ID: WG-160900764-20180419-JK19
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5493571	N/A	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/25	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5495617	N/A	2018/04/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5493621	N/A	2018/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	5493697	N/A	2018/04/25	Automated Statchk
Chloride by Automated Colourimetry	KONE	5495658	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5495618	N/A	2018/04/23	Surinder Rai
Chromium (VI) in Water	IC	5497034	N/A	2018/04/26	Sally Coughlin
Free (WAD) Cyanide	SKAL/CN	5496549	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5495645	N/A	2018/04/21	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5500137	2018/04/25	2018/04/26	(Kent) Maolin Li
Fluoride	ISE	5495620	2018/04/21	2018/04/23	Surinder Rai
Hardness (calculated as CaCO3)		5493843	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5493637	N/A	2018/04/23	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5493629	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5493630	N/A	2018/04/24	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5494154	N/A	2018/04/20	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	5498369	N/A	2018/04/27	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5495635	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/23	Sarah Huang
pH	AT	5495619	N/A	2018/04/23	Surinder Rai
Orthophosphate	KONE	5495661	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5493631	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5493632	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5495660	N/A	2018/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5493633	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5497155	2018/04/23	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5498216	N/A	2018/04/26	Anastasia Hamanov
Total Suspended Solids	BAL	5497144	2018/04/23	2018/04/25	Fang Wang
Turbidity	AT	5494786	N/A	2018/04/21	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5496164	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMR464
Sample ID: WG-160900764-20180419-JK20
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5493571	N/A	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/25	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5495617	N/A	2018/04/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5493621	N/A	2018/04/24	Automated Statchk

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

TEST SUMMARY

Maxxam ID: GMR464
Sample ID: WG-160900764-20180419-JK20
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	5493697	N/A	2018/04/25	Automated Statchk
Chloride by Automated Colourimetry	KONE	5495658	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5495618	N/A	2018/04/23	Surinder Rai
Chromium (VI) in Water	IC	5497034	N/A	2018/04/26	Sally Coughlin
Free (WAD) Cyanide	SKAL/CN	5496549	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5499122	N/A	2018/04/24	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5500137	2018/04/25	2018/04/26	(Kent) Maolin Li
Fluoride	ISE	5495620	2018/04/21	2018/04/23	Surinder Rai
Hardness (calculated as CaCO3)		5493843	N/A	2018/04/24	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5497153	N/A	2018/04/24	Arefa Dabhad
Ion Balance (% Difference)	CALC	5493629	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5493630	N/A	2018/04/24	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5494154	N/A	2018/04/20	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	5500863	N/A	2018/04/27	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5495635	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/24	Sarah Huang
pH	AT	5495619	N/A	2018/04/23	Surinder Rai
Orthophosphate	KONE	5495661	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5493631	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5493632	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5495660	N/A	2018/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5493633	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5497155	2018/04/23	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5500877	N/A	2018/04/26	Anastasia Hamanov
Total Suspended Solids	BAL	5497144	2018/04/23	2018/04/25	Fang Wang
Turbidity	AT	5494786	N/A	2018/04/21	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5496164	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMR465
Sample ID: WG-160900764-20180419-JK21
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5493571	N/A	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/25	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5495617	N/A	2018/04/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5493621	N/A	2018/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	5493697	N/A	2018/04/25	Automated Statchk
Chloride by Automated Colourimetry	KONE	5495658	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5495618	N/A	2018/04/23	Surinder Rai
Chromium (VI) in Water	IC	5497034	N/A	2018/04/26	Sally Coughlin
Free (WAD) Cyanide	SKAL/CN	5496549	N/A	2018/04/23	Xuanhong Qiu

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

TEST SUMMARY

Maxxam ID: GMR465
Sample ID: WG-160900764-20180419-JK21
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5499122	N/A	2018/04/24	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5500137	2018/04/25	2018/04/26	(Kent) Maolin Li
Fluoride	ISE	5495620	2018/04/21	2018/04/23	Surinder Rai
Hardness (calculated as CaCO3)		5493843	N/A	2018/04/24	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5497153	N/A	2018/04/24	Arefa Dabhad
Ion Balance (% Difference)	CALC	5493629	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5493630	N/A	2018/04/24	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5494154	N/A	2018/04/20	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	5500863	N/A	2018/04/27	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5495635	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/24	Sarah Huang
pH	AT	5495619	N/A	2018/04/23	Surinder Rai
Orthophosphate	KONE	5495661	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5493631	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5493632	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5495660	N/A	2018/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5493633	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5497155	2018/04/23	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5500877	N/A	2018/04/26	Anastasia Hamanov
Total Suspended Solids	BAL	5497144	2018/04/23	2018/04/25	Fang Wang
Turbidity	AT	5494786	N/A	2018/04/21	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5496164	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMR465 Dup
Sample ID: WG-160900764-20180419-JK21
Matrix: Water

Collected: 2018/04/19
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	5500863	N/A	2018/04/27	Parminder Sangha

Maxxam ID: GMR466
Sample ID: WG-160900764-20180420-JK22
Matrix: Water

Collected: 2018/04/20
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5493571	N/A	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/24	Milijana Avramovic
Acidity (CaCO3) in water	MT	5502201	N/A	2018/04/26	Brent Boudreau
Alkalinity	AT	5495617	N/A	2018/04/23	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5493621	N/A	2018/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	5493697	N/A	2018/04/25	Automated Statchk
Chloride by Automated Colourimetry	KONE	5495670	N/A	2018/04/22	Deonarine Ramnarine
Conductivity	AT	5495618	N/A	2018/04/23	Surinder Rai

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Maxxam Job #: B889899
Report Date: 2018/04/30

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

TEST SUMMARY

Maxxam ID: GMR466
Sample ID: WG-160900764-20180420-JK22
Matrix: Water

Collected: 2018/04/20
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	5497034	N/A	2018/04/26	Sally Coughlin
Free (WAD) Cyanide	SKAL/CN	5496549	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5499122	N/A	2018/04/24	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5500137	2018/04/25	2018/04/26	(Kent) Maolin Li
Fluoride	ISE	5495620	2018/04/21	2018/04/23	Surinder Rai
Hardness (calculated as CaCO3)		5493843	N/A	2018/04/24	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Metals Analysis by ICPMS (as received)	ICP/MS	5497153	N/A	2018/04/24	Arefa Dabhad
Ion Balance (% Difference)	CALC	5493629	N/A	2018/04/24	Automated Statchk
Anion and Cation Sum	CALC	5493630	N/A	2018/04/24	Automated Statchk
Total Coliforms/ E. coli, CFU/100mL	PL	5494154	N/A	2018/04/20	Sirimathie Aluthwala
Total Ammonia-N	LACH/NH4	5500863	N/A	2018/04/27	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5495635	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5496644	2018/04/23	2018/04/24	Sarah Huang
pH	AT	5495619	N/A	2018/04/23	Surinder Rai
Orthophosphate	KONE	5495672	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5493631	N/A	2018/04/24	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5493632	N/A	2018/04/24	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5495671	N/A	2018/04/23	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	5493633	N/A	2018/04/24	Automated Statchk
Total Dissolved Solids	BAL	5501563	2018/04/25	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5500877	N/A	2018/04/26	Anastasia Hamanov
Total Suspended Solids	BAL	5502252	2018/04/25	2018/04/26	Fang Wang
Turbidity	AT	5494786	N/A	2018/04/21	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5496164	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMR466 Dup
Sample ID: WG-160900764-20180420-JK22
Matrix: Water

Collected: 2018/04/20
Shipped:
Received: 2018/04/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/24	2018/04/24	Milijana Avramovic
Total Organic Carbon (TOC)	TOCV/NDIR	5500877	N/A	2018/04/26	Anastasia Hamanov

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GENERAL COMMENTS

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

Package 1	2.0°C
Package 2	3.0°C
Package 3	3.0°C
Package 4	5.0°C

Sample GMR461 [WG-160900764-20180419-JK17] : ABN Analysis: The majority of the surrogate recoveries were below the control limits. This is likely due to a matrix effect as similar results (low surrogate recoveries) were also obtained in the original sample analysis. Discretion is advised as some of the data may have an associated low bias.

Sample GMR462 [WG-160900764-20180419-JK18] : ABN Analysis: The majority of the surrogate recoveries were below the lower control limit due to the effect of the matrix. This may represent a low bias in some results. Rework is indicated but insufficient volume is available to do so.
TOC< DOC: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample GMR464 [WG-160900764-20180419-JK20] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.

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Maxxam Job #: B889899
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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
5496164	4-Bromofluorobenzene	2018/04/24	112	70 - 130	110	70 - 130	105	%				
5496164	D4-1,2-Dichloroethane	2018/04/24	78	70 - 130	76	70 - 130	79	%				
5496164	D8-Toluene	2018/04/24	104	70 - 130	104	70 - 130	95	%				
5496644	Decachlorobiphenyl	2018/04/23	120	60 - 130	89	60 - 130	102	%				
5497891	2,4,6-Tribromophenol	2018/04/24	94	50 - 130	100	50 - 130	77	%				
5497891	2-Fluorobiphenyl	2018/04/24	58	50 - 130	72	50 - 130	75	%				
5497891	D14-Terphenyl (FS)	2018/04/24	108	50 - 130	106	50 - 130	101	%				
5497891	D5-Nitrobenzene	2018/04/24	58	50 - 130	88	50 - 130	81	%				
5500137	o-Terphenyl	2018/04/26	100	60 - 130	99	60 - 130	96	%				
5503338	2,4,6-Tribromophenol	2018/04/27			94	50 - 130	78	%				
5503338	2-Fluorobiphenyl	2018/04/27			56	50 - 130	52	%				
5503338	D14-Terphenyl (FS)	2018/04/27			102	50 - 130	105	%				
5503338	D5-Nitrobenzene	2018/04/27			74	50 - 130	62	%				
5493637	. Aluminum (Al)	2018/04/23	95	80 - 120	95	80 - 120	<0.0050	mg/L	NC	20		
5493637	. Antimony (Sb)	2018/04/23	100	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
5493637	. Arsenic (As)	2018/04/23	95	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20		
5493637	. Barium (Ba)	2018/04/23	94	80 - 120	94	80 - 120	<0.0020	mg/L	NC	20		
5493637	. Beryllium (Be)	2018/04/23	94	80 - 120	91	80 - 120	<0.00050	mg/L	NC	20		
5493637	. Boron (B)	2018/04/23	94	80 - 120	89	80 - 120	<0.010	mg/L	0.12	20		
5493637	. Cadmium (Cd)	2018/04/23	98	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20		
5493637	. Calcium (Ca)	2018/04/23	92	80 - 120	92	80 - 120	<0.20	mg/L	NC	20		
5493637	. Chromium (Cr)	2018/04/23	91	80 - 120	89	80 - 120	<0.0050	mg/L	NC	20		
5493637	. Cobalt (Co)	2018/04/23	96	80 - 120	94	80 - 120	<0.00050	mg/L	NC	20		
5493637	. Copper (Cu)	2018/04/23	99	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20		
5493637	. Iron (Fe)	2018/04/23	98	80 - 120	94	80 - 120	<0.10	mg/L	NC	20		
5493637	. Lead (Pb)	2018/04/23	96	80 - 120	93	80 - 120	<0.00050	mg/L	NC	20		
5493637	. Magnesium (Mg)	2018/04/23	97	80 - 120	95	80 - 120	<0.050	mg/L	NC	20		
5493637	. Manganese (Mn)	2018/04/23	95	80 - 120	93	80 - 120	<0.0020	mg/L	NC	20		
5493637	. Molybdenum (Mo)	2018/04/23	96	80 - 120	93	80 - 120	<0.00050	mg/L	NC	20		
5493637	. Nickel (Ni)	2018/04/23	93	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20		
5493637	. Phosphorus (P)	2018/04/23	102	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		

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Maxxam Job #: B889899
Report Date: 2018/04/30

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
5493637	. Potassium (K)	2018/04/23	95	80 - 120	93	80 - 120	<0.20	mg/L	NC	20		
5493637	. Selenium (Se)	2018/04/23	97	80 - 120	95	80 - 120	<0.0020	mg/L	NC	20		
5493637	. Silicon (Si)	2018/04/23	96	80 - 120	93	80 - 120	<0.050	mg/L	1.7	20		
5493637	. Silver (Ag)	2018/04/23	93	80 - 120	91	80 - 120	<0.00010	mg/L	NC	20		
5493637	. Sodium (Na)	2018/04/23	95	80 - 120	92	80 - 120	<0.10	mg/L	0.94	20		
5493637	. Strontium (Sr)	2018/04/23	94	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20		
5493637	. Thallium (Tl)	2018/04/23	99	80 - 120	97	80 - 120	<0.000050	mg/L	NC	20		
5493637	. Titanium (Ti)	2018/04/23	93	80 - 120	92	80 - 120	<0.0050	mg/L	NC	20		
5493637	. Uranium (U)	2018/04/23	96	80 - 120	92	80 - 120	<0.00010	mg/L	NC	20		
5493637	. Vanadium (V)	2018/04/23	94	80 - 120	93	80 - 120	<0.00050	mg/L	NC	20		
5493637	. Zinc (Zn)	2018/04/23	95	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
5493637	. Zirconium (Zr)	2018/04/23	99	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
5494786	Turbidity	2018/04/21			101	85 - 115	<0.1	NTU	4.1	20		
5495617	Alkalinity (Total as CaCO3)	2018/04/23			95	85 - 115	<1.0	mg/L	0.62	20		
5495618	Conductivity	2018/04/23			100	85 - 115	<1.0	umho/cm	0	25		
5495619	pH	2018/04/23			102	98 - 103			0.13	N/A		
5495620	Fluoride (F-)	2018/04/23	102	80 - 120	101	80 - 120	<0.10	mg/L	1.9	20		
5495635	Nitrate (N)	2018/04/23	100	80 - 120	99	80 - 120	<0.10	mg/L	0.31	20		
5495635	Nitrite (N)	2018/04/23	97	80 - 120	98	80 - 120	<0.010	mg/L	4.7	20		
5495645	Dissolved Organic Carbon	2018/04/21	99	80 - 120	100	80 - 120	<0.50	mg/L	1.5	20		
5495647	Dissolved Chloride (Cl)	2018/04/22	87	80 - 120	105	80 - 120	<1.0	mg/L	12	20		
5495648	Dissolved Organic Carbon	2018/04/21	98	80 - 120	100	80 - 120	<0.50	mg/L	0.43	20		
5495651	Dissolved Sulphate (SO4)	2018/04/23	107	75 - 125	107	80 - 120	<1.0	mg/L	0.53	20		
5495652	Orthophosphate (P)	2018/04/22	108	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
5495658	Dissolved Chloride (Cl)	2018/04/22	105	80 - 120	106	80 - 120	<1.0	mg/L	2.1	20		
5495660	Dissolved Sulphate (SO4)	2018/04/23	NC	75 - 125	100	80 - 120	<1.0	mg/L	0.86	20		
5495661	Orthophosphate (P)	2018/04/22	111	75 - 125	101	80 - 120	<0.010	mg/L	13	25		
5495670	Dissolved Chloride (Cl)	2018/04/22	NC	80 - 120	105	80 - 120	<1.0	mg/L	3.3	20		
5495671	Dissolved Sulphate (SO4)	2018/04/23	NC	75 - 125	100	80 - 120	<1.0	mg/L	0.93	20		
5495672	Orthophosphate (P)	2018/04/22	93	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		

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Maxxam Job #: B889899
Report Date: 2018/04/30

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
5496164	1,1,1,2-Tetrachloroethane	2018/04/24	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5496164	1,1,1-Trichloroethane	2018/04/24	88	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
5496164	1,1,2,2-Tetrachloroethane	2018/04/24	81	70 - 130	82	70 - 130	<0.50	ug/L	NC	30		
5496164	1,1,2-Trichloroethane	2018/04/24	72	70 - 130	72	70 - 130	<0.50	ug/L	NC	30		
5496164	1,1-Dichloroethane	2018/04/24	87	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
5496164	1,1-Dichloroethylene	2018/04/24	86	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
5496164	1,2-Dichlorobenzene	2018/04/24	97	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5496164	1,2-Dichloroethane	2018/04/24	75	70 - 130	75	70 - 130	<0.50	ug/L	NC	30		
5496164	1,2-Dichloropropane	2018/04/24	87	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
5496164	1,3-Dichlorobenzene	2018/04/24	101	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5496164	1,4-Dichlorobenzene	2018/04/24	102	70 - 130	102	70 - 130	<0.50	ug/L	NC	30		
5496164	Acetone (2-Propanone)	2018/04/24	64	60 - 140	67	60 - 140	<10	ug/L	NC	30		
5496164	Benzene	2018/04/24	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5496164	Bromodichloromethane	2018/04/24	87	70 - 130	86	70 - 130	<0.50	ug/L	NC	30		
5496164	Bromoform	2018/04/24	95	70 - 130	94	70 - 130	<1.0	ug/L	NC	30		
5496164	Bromomethane	2018/04/24	95	60 - 140	92	60 - 140	<0.50	ug/L	NC	30		
5496164	Carbon Tetrachloride	2018/04/24	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5496164	Chlorobenzene	2018/04/24	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5496164	Chloroform	2018/04/24	88	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
5496164	cis-1,2-Dichloroethylene	2018/04/24	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5496164	cis-1,3-Dichloropropene	2018/04/24	86	70 - 130	83	70 - 130	<0.30	ug/L	NC	30		
5496164	Dibromochloromethane	2018/04/24	91	70 - 130	90	70 - 130	<0.50	ug/L	NC	30		
5496164	Dichlorodifluoromethane (FREON 12)	2018/04/24	84	60 - 140	82	60 - 140	<1.0	ug/L	NC	30		
5496164	Ethylbenzene	2018/04/24	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5496164	Ethylene Dibromide	2018/04/24	89	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
5496164	F1 (C6-C10) - BTEX	2018/04/24					<25	ug/L	NC	30		
5496164	F1 (C6-C10)	2018/04/24	97	60 - 140	97	60 - 140	<25	ug/L	NC	30		
5496164	Hexane	2018/04/24	95	70 - 130	94	70 - 130	<1.0	ug/L	NC	30		
5496164	Methyl Ethyl Ketone (2-Butanone)	2018/04/24	68	60 - 140	70	60 - 140	<10	ug/L	NC	30		
5496164	Methyl Isobutyl Ketone	2018/04/24	71	70 - 130	71	70 - 130	<5.0	ug/L	NC	30		
5496164	Methyl t-butyl ether (MTBE)	2018/04/24	86	70 - 130	87	70 - 130	<0.50	ug/L	NC	30		

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Report Date: 2018/04/30

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
5496164	Methylene Chloride(Dichloromethane)	2018/04/24	97	70 - 130	96	70 - 130	<2.0	ug/L	NC	30		
5496164	o-Xylene	2018/04/24	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5496164	p+m-Xylene	2018/04/24	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5496164	Styrene	2018/04/24	86	70 - 130	85	70 - 130	<0.50	ug/L	NC	30		
5496164	Tetrachloroethylene	2018/04/24	110	70 - 130	110	70 - 130	<0.20	ug/L	NC	30		
5496164	Toluene	2018/04/24	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5496164	Total Xylenes	2018/04/24					<0.20	ug/L	NC	30		
5496164	trans-1,2-Dichloroethylene	2018/04/24	100	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5496164	trans-1,3-Dichloropropene	2018/04/24	85	70 - 130	80	70 - 130	<0.40	ug/L	NC	30		
5496164	Trichloroethylene	2018/04/24	106	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
5496164	Trichlorofluoromethane (FREON 11)	2018/04/24	90	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
5496164	Vinyl Chloride	2018/04/24	89	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
5496549	WAD Cyanide (Free)	2018/04/23	93	80 - 120	96	80 - 120	<1	ug/L	0	20		
5496644	Aroclor 1242	2018/04/23					<0.05	ug/L	NC	30		
5496644	Aroclor 1248	2018/04/23					<0.05	ug/L	NC	30		
5496644	Aroclor 1254	2018/04/23					<0.05	ug/L	NC	30		
5496644	Aroclor 1260	2018/04/23	120	60 - 130	86	60 - 130	<0.05	ug/L	NC	30		
5496644	Total PCB	2018/04/23	120	60 - 130	86	60 - 130	<0.05	ug/L	NC	40		
5497034	Chromium (VI)	2018/04/26	101	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
5497144	Total Suspended Solids	2018/04/25					<10	mg/L	NC	25	97	85 - 115
5497153	. Aluminum (Al)	2018/04/24	99	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
5497153	. Antimony (Sb)	2018/04/24	105	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
5497153	. Arsenic (As)	2018/04/24	97	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
5497153	. Barium (Ba)	2018/04/24	98	80 - 120	98	80 - 120	<0.0020	mg/L	1.5	20		
5497153	. Beryllium (Be)	2018/04/24	95	80 - 120	94	80 - 120	<0.00050	mg/L	NC	20		
5497153	. Boron (B)	2018/04/24	94	80 - 120	91	80 - 120	<0.010	mg/L	4.4	20		
5497153	. Cadmium (Cd)	2018/04/24	100	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20		
5497153	. Calcium (Ca)	2018/04/24	NC	80 - 120	97	80 - 120	<0.20	mg/L	1.1	20		
5497153	. Chromium (Cr)	2018/04/24	95	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
5497153	. Cobalt (Co)	2018/04/24	98	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		
5497153	. Copper (Cu)	2018/04/24	99	80 - 120	101	80 - 120	<0.0010	mg/L	1.6	20		

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Maxxam Job #: B889899
Report Date: 2018/04/30

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
5497153	. Iron (Fe)	2018/04/24	101	80 - 120	101	80 - 120	<0.10	mg/L	0.54	20		
5497153	. Lead (Pb)	2018/04/24	98	80 - 120	100	80 - 120	<0.00050	mg/L	1.4	20		
5497153	. Magnesium (Mg)	2018/04/24	93	80 - 120	100	80 - 120	<0.050	mg/L	0.89	20		
5497153	. Manganese (Mn)	2018/04/24	98	80 - 120	99	80 - 120	<0.0020	mg/L	1.8	20		
5497153	. Molybdenum (Mo)	2018/04/24	99	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
5497153	. Nickel (Ni)	2018/04/24	96	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
5497153	. Phosphorus (P)	2018/04/24	101	80 - 120	106	80 - 120	<0.10	mg/L				
5497153	. Potassium (K)	2018/04/24	99	80 - 120	101	80 - 120	<0.20	mg/L	1.2	20		
5497153	. Selenium (Se)	2018/04/24	101	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
5497153	. Silicon (Si)	2018/04/24	96	80 - 120	98	80 - 120	<0.050	mg/L	1.2	20		
5497153	. Silver (Ag)	2018/04/24	98	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20		
5497153	. Sodium (Na)	2018/04/24	95	80 - 120	96	80 - 120	<0.10	mg/L	0.089	20		
5497153	. Strontium (Sr)	2018/04/24	98	80 - 120	99	80 - 120	<0.0010	mg/L	0.84	20		
5497153	. Thallium (Tl)	2018/04/24	100	80 - 120	100	80 - 120	<0.000050	mg/L	NC	20		
5497153	. Titanium (Ti)	2018/04/24	97	80 - 120	100	80 - 120	<0.0050	mg/L	NC	20		
5497153	. Uranium (U)	2018/04/24	98	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20		
5497153	. Vanadium (V)	2018/04/24	96	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
5497153	. Zinc (Zn)	2018/04/24	97	80 - 120	97	80 - 120	<0.0050	mg/L	2.4	20		
5497153	. Zirconium (Zr)	2018/04/24	103	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
5497155	Total Dissolved Solids	2018/04/25					<10	mg/L	2.5	25	98	90 - 110
5497806	Mercury (Hg)	2018/04/24	108	75 - 125	98	80 - 120	<0.1	ug/L	NC	20		
5497891	1,2,4-Trichlorobenzene	2018/04/24	57	40 - 130	75	40 - 130	<0.1	ug/L	NC	30		
5497891	1-Methylnaphthalene	2018/04/24	62	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5497891	2,4,5-Trichlorophenol	2018/04/24	82	50 - 130	109	50 - 130	<0.2	ug/L	NC	30		
5497891	2,4,6-Trichlorophenol	2018/04/24	73	50 - 130	104	50 - 130	<0.2	ug/L	NC	30		
5497891	2,4-Dichlorophenol	2018/04/24	60	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
5497891	2,4-Dimethylphenol	2018/04/24	33	30 - 130	63	30 - 130	<0.5	ug/L	NC	30		
5497891	2,4-Dinitrophenol	2018/04/24	128	30 - 130	127	30 - 130	<2	ug/L	NC	30		
5497891	2,4-Dinitrotoluene	2018/04/24	92	50 - 130	95	50 - 130	<0.3	ug/L	NC	30		
5497891	2,6-Dinitrotoluene	2018/04/24	85	50 - 130	96	50 - 130	<0.3	ug/L	NC	30		
5497891	2-Chlorophenol	2018/04/24	56	50 - 130	86	50 - 130	<0.1	ug/L	NC	30		

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Maxxam Job #: B889899
Report Date: 2018/04/30

QUALITY ASSURANCE REPORT(CONT'D)

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

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
5497891	2-Methylnaphthalene	2018/04/24	62	50 - 130	88	50 - 130	<0.2	ug/L	NC	30		
5497891	3,3'-Dichlorobenzidine	2018/04/24	109	30 - 130	112	30 - 130	<0.5	ug/L	NC	30		
5497891	Acenaphthene	2018/04/24	75	50 - 130	100	50 - 130	<0.2	ug/L	NC	30		
5497891	Acenaphthylene	2018/04/24	72	50 - 130	98	50 - 130	<0.2	ug/L	NC	30		
5497891	Anthracene	2018/04/24	87	50 - 130	93	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(a)anthracene	2018/04/24	105	50 - 130	107	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(a)pyrene	2018/04/24	100	50 - 130	99	50 - 130	<0.01	ug/L	NC	30		
5497891	Benzo(b/j)fluoranthene	2018/04/24	105	50 - 130	100	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(g,h,i)perylene	2018/04/24	117	50 - 130	126	50 - 130	<0.05	ug/L	NC	30		
5497891	Benzo(k)fluoranthene	2018/04/24	95	50 - 130	92	50 - 130	<0.05	ug/L	NC	30		
5497891	Biphenyl	2018/04/24	62	50 - 130	85	50 - 130	<0.1	ug/L	NC	30		
5497891	Bis(2-chloroethyl)ether	2018/04/24	62	50 - 130	93	50 - 130	<0.5	ug/L	NC	30		
5497891	Bis(2-chloroisopropyl)ether	2018/04/24	61	50 - 130	91	50 - 130	<0.5	ug/L	NC	30		
5497891	Bis(2-ethylhexyl)phthalate	2018/04/24	109	50 - 130	114	50 - 130	<1	ug/L	NC	30		
5497891	Chrysene	2018/04/24	108	50 - 130	108	50 - 130	<0.05	ug/L	NC	30		
5497891	Dibenz(a,h)anthracene	2018/04/24	107	50 - 130	115	50 - 130	<0.1	ug/L	NC	30		
5497891	Diethyl phthalate	2018/04/24	94	50 - 130	99	50 - 130	<0.1	ug/L	NC	30		
5497891	Dimethyl phthalate	2018/04/24	88	50 - 130	100	50 - 130	<0.1	ug/L	NC	30		
5497891	Fluoranthene	2018/04/24	102	50 - 130	106	50 - 130	<0.2	ug/L	NC	30		
5497891	Fluorene	2018/04/24	81	50 - 130	97	50 - 130	<0.2	ug/L	NC	30		
5497891	Indeno(1,2,3-cd)pyrene	2018/04/24	102	50 - 130	109	50 - 130	<0.1	ug/L	NC	30		
5497891	Naphthalene	2018/04/24	63	50 - 130	90	50 - 130	<0.2	ug/L	NC	30		
5497891	p-Chloroaniline	2018/04/24	61	30 - 130	100	30 - 130	<1	ug/L	NC	30		
5497891	Pentachlorophenol	2018/04/24	82	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
5497891	Phenanthrene	2018/04/24	92	50 - 130	95	50 - 130	<0.1	ug/L	NC	30		
5497891	Phenol	2018/04/24	24 (1)	30 - 130	39	30 - 130	<0.5	ug/L	NC	30		
5497891	Pyrene	2018/04/24	102	50 - 130	102	50 - 130	<0.05	ug/L	NC	30		
5498216	Total Organic Carbon (TOC)	2018/04/26	NC	80 - 120	99	80 - 120	<0.50	mg/L	0.88	20		
5498369	Total Ammonia-N	2018/04/27	95	75 - 125	102	80 - 120	<0.050	mg/L	2.2	20		
5499122	Dissolved Organic Carbon	2018/04/24	98	80 - 120	101	80 - 120	<0.50	mg/L	1.3	20		
5500137	F2 (C10-C16 Hydrocarbons)	2018/04/26	NC	50 - 130	95	60 - 130	<100	ug/L				

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Maxxam Job #: B889899
Report Date: 2018/04/30

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
5500137	F3 (C16-C34 Hydrocarbons)	2018/04/26	NC	50 - 130	104	60 - 130	<200	ug/L				
5500137	F4 (C34-C50 Hydrocarbons)	2018/04/26	94	50 - 130	96	60 - 130	<200	ug/L				
5500439	Total Ammonia-N	2018/04/27	97	75 - 125	104	80 - 120	<0.050	mg/L	15	20		
5500583	Acidity	2018/04/25	91	80 - 120	102	80 - 120	<5.0	mg/L	2.7	25		
5500863	Total Ammonia-N	2018/04/27	96	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
5500877	Total Organic Carbon (TOC)	2018/04/26	93	80 - 120	96	80 - 120	<0.50	mg/L	0.62	20		
5501563	Total Dissolved Solids	2018/04/25					<10	mg/L	6.8	25	100	90 - 110
5502201	Acidity	2018/04/26	100	80 - 120	102	80 - 120	<5.0	mg/L	NC	25		
5502252	Total Suspended Solids	2018/04/26					<10	mg/L	NC	25	95	85 - 115
5503338	1,2,4-Trichlorobenzene	2018/04/27			71	40 - 130	<0.1	ug/L	1.9	30		
5503338	1-Methylnaphthalene	2018/04/27			81	50 - 130	<0.2	ug/L	2.7	30		
5503338	2,4,5-Trichlorophenol	2018/04/27			96	50 - 130	<0.2	ug/L	2.3	30		
5503338	2,4,6-Trichlorophenol	2018/04/27			94	50 - 130	<0.2	ug/L	1.8	30		
5503338	2,4-Dichlorophenol	2018/04/27			84	50 - 130	<0.1	ug/L	3.7	30		
5503338	2,4-Dimethylphenol	2018/04/27			58	30 - 130	<0.5	ug/L	22	30		
5503338	2,4-Dinitrophenol	2018/04/27			129	30 - 130	<2	ug/L	0.016	30		
5503338	2,4-Dinitrotoluene	2018/04/27			94	50 - 130	<0.3	ug/L	1.5	30		
5503338	2,6-Dinitrotoluene	2018/04/27			93	50 - 130	<0.3	ug/L	3.0	30		
5503338	2-Chlorophenol	2018/04/27			71	50 - 130	<0.1	ug/L	0.49	30		
5503338	2-Methylnaphthalene	2018/04/27			81	50 - 130	<0.2	ug/L	0.55	30		
5503338	3,3'-Dichlorobenzidine	2018/04/27			97	30 - 130	<0.5	ug/L	2.8	30		
5503338	Acenaphthene	2018/04/27			92	50 - 130	<0.2	ug/L	1.9	30		
5503338	Acenaphthylene	2018/04/27			90	50 - 130	<0.2	ug/L	1.3	30		
5503338	Anthracene	2018/04/27			89	50 - 130	<0.05	ug/L	0.33	30		
5503338	Benzo(a)anthracene	2018/04/27			100	50 - 130	<0.05	ug/L	1.6	30		
5503338	Benzo(a)pyrene	2018/04/27			97	50 - 130	<0.01	ug/L	0.33	30		
5503338	Benzo(b/j)fluoranthene	2018/04/27			104	50 - 130	<0.05	ug/L	0.61	30		
5503338	Benzo(g,h,i)perylene	2018/04/27			85	50 - 130	<0.05	ug/L	0.77	30		
5503338	Benzo(k)fluoranthene	2018/04/27			100	50 - 130	<0.05	ug/L	3.7	30		
5503338	Biphenyl	2018/04/27			79	50 - 130	<0.1	ug/L	0.80	30		
5503338	Bis(2-chloroethyl)ether	2018/04/27			78	50 - 130	<0.5	ug/L	1.1	30		

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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
5503338	Bis(2-chloroisopropyl)ether	2018/04/27			80	50 - 130	<0.5	ug/L	3.1	30		
5503338	Bis(2-ethylhexyl)phthalate	2018/04/27			104	50 - 130	<1	ug/L	0.74	30		
5503338	Chrysene	2018/04/27			104	50 - 130	<0.05	ug/L	1.5	30		
5503338	Dibenz(a,h)anthracene	2018/04/27			82	50 - 130	<0.1	ug/L	1.4	30		
5503338	Diethyl phthalate	2018/04/27			98	50 - 130	<0.1	ug/L	0.031	30		
5503338	Dimethyl phthalate	2018/04/27			98	50 - 130	<0.1	ug/L	0.57	30		
5503338	Fluoranthene	2018/04/27			103	50 - 130	<0.2	ug/L	2.5	30		
5503338	Fluorene	2018/04/27			91	50 - 130	<0.2	ug/L	2.2	30		
5503338	Indeno(1,2,3-cd)pyrene	2018/04/27			76	50 - 130	<0.1	ug/L	1.3	30		
5503338	Naphthalene	2018/04/27			80	50 - 130	<0.2	ug/L	0.71	30		
5503338	p-Chloroaniline	2018/04/27			83	30 - 130	<1	ug/L	8.6	30		
5503338	Pentachlorophenol	2018/04/27			87	50 - 130	<0.1	ug/L	14	30		
5503338	Phenanthrene	2018/04/27			92	50 - 130	<0.1	ug/L	0.17	30		
5503338	Phenol	2018/04/27			31	30 - 130	<0.5	ug/L	2.6	30		
5503338	Pyrene	2018/04/27			101	50 - 130	<0.05	ug/L	1.8	30		

N/A = Not Applicable

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

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

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

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

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

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

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

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

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

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Report Date: 2018/04/30

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).

Eric Dearman, Scientific Specialist

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

Mike MacGillivray, Scientific Specialist (Inorganics)

Sirimathie Aluthwala, Campobello Micro

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ADDITIONAL COOLER TEM

CHAIN-OF-CUSTOD

20-Apr-18 11:00
Deepthi Shaji
B889899
SEL ENV-828

CHAIN OF CUSTODY #	
Page 1 of 1	657879-02-01
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

MAXXAM

	YES	NO				
CUSTODY SEAL			COOLER ID 1			
PRESENT		✓	TEMP	2	2	2
INTACT		✓				
ICE PRESENT	✓			1	2	3
CUSTODY SEAL			COOLER ID 2			
PRESENT		✓	TEMP	3	3	3
INTACT		✓				
ICE PRESENT	✓			1	2	3
CUSTODY SEAL			COOLER ID 3			
PRESENT		✓	TEMP	2	3	4
INTACT		✓				
ICE PRESENT	✓			1	2	3
CUSTODY SEAL			COOLER ID 4			
PRESENT		✓	TEMP	4	5	6
INTACT		✓				
ICE PRESENT	✓			1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP			
INTACT						
ICE PRESENT				1	2	3

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
	Jaya	2018/04/20	11:00

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MICRO

STANTEC CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name	#9197 Stantec Consulting Ltd	Company Name	#18379 Stantec Consulting Ltd	Quotation #	B48218	Maxxam Job #:	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Report - 160900764	Task #	200.400		657879
Address	300 Hagey Blvd Suite 100	Address		Project #	160900764		
	Waterloo ON N2L 0A4		ON	Profit Centre	1609	COC #:	Project Manager:
Phone	(519) 579-4410 x Fax (519) 579-6733 x	Phone	Fax	Site #	Clarington TS - Private Well	C#657879-02-01	Deepthi Shaji
Email	accounts.payable.invoices@stantec.com	Email	aaron.warkentin@stantec.com, jamie.koch@stantec.co	Sampled By	JK		

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)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC):

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 (please circle) Metals / Hg / Cr VI	Acidity	Cr (VI) & Free CN	Fluoride & Turbidity	Mercury & TOC	Total Coliforms/ E. coli Background	TDS & TSS	RCAp - Comprehensive (Drinking Water) - No field filter	Reg 153 PCBs	Reg 153 VOCs & F1-F4	SVOCs	# of Bottles	Comments
1		WG-160900764-201804 19-JK17	Apr 19 2018	0958	GW	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	+ Bacti ☒
2		WG-160900764-201804 19-JK18		1043	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	analysis per quote
3		WG-160900764-201804 19-JK19		1135	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	
4		WG-160900764-201804 19-JK20		1220	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	
5		WG-160900764-201804 19-JK21		1251	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	
6		WG-160900764-201804 20-JK22	Apr 20 2018	0910	GW		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	
7		WG-160900764-201804___			GW													
8		WG-160900764-201804___			GW													
9		WG-160900764-201804___			GW													
10		WG-160900764-201804___			GW													

20-Apr-18 11:00
Deepthi Shaji
B889899
SEL ENV-828

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
Jamie Koch	18/04/20	1050	[illegible]	2018/04/20	11:00			See ACTK	Intact		✓

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

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

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

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

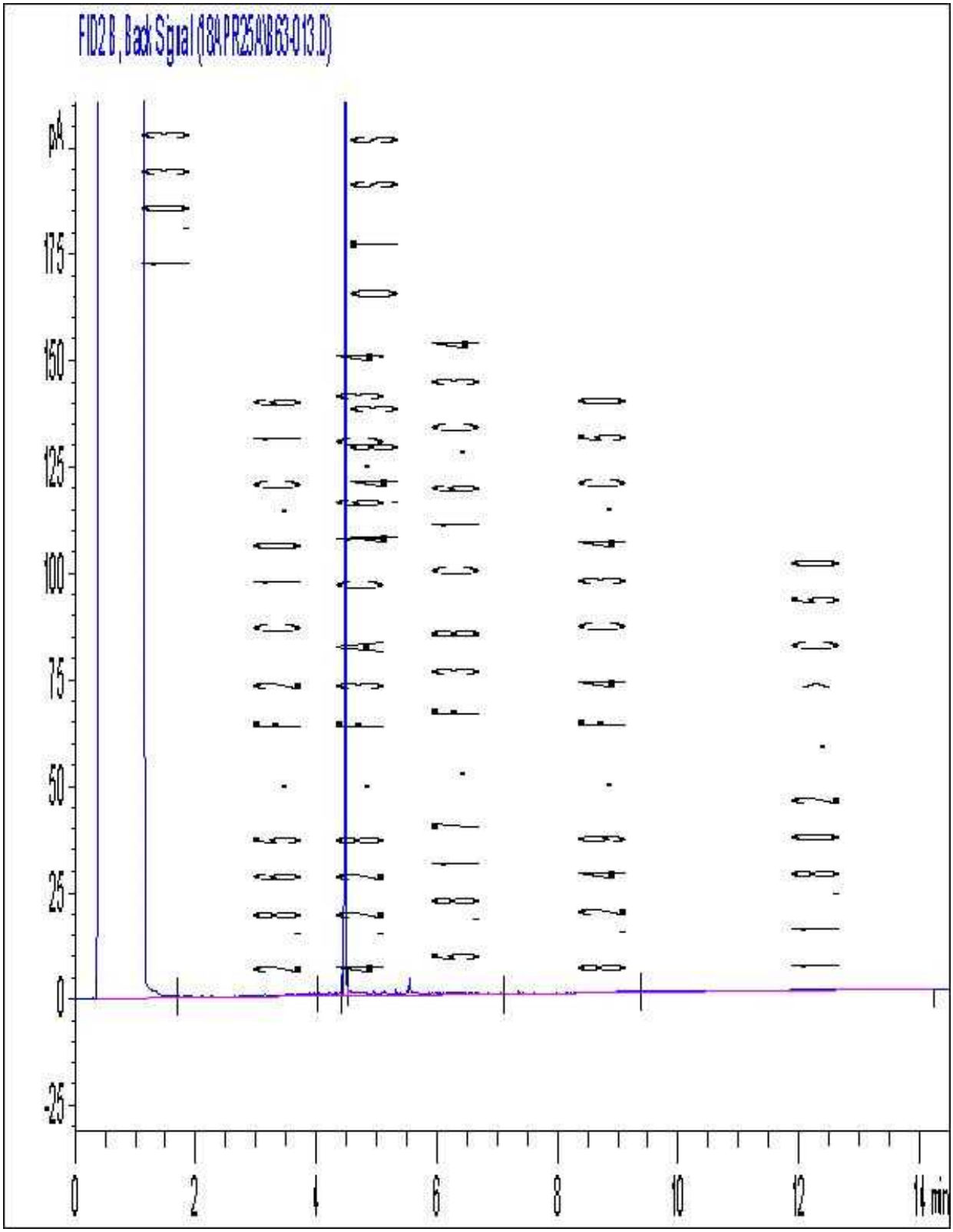
White: Maxxa Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam Job #: B889899
Report Date: 2018/04/30
Maxxam Sample: GMR461

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180419-JK17

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

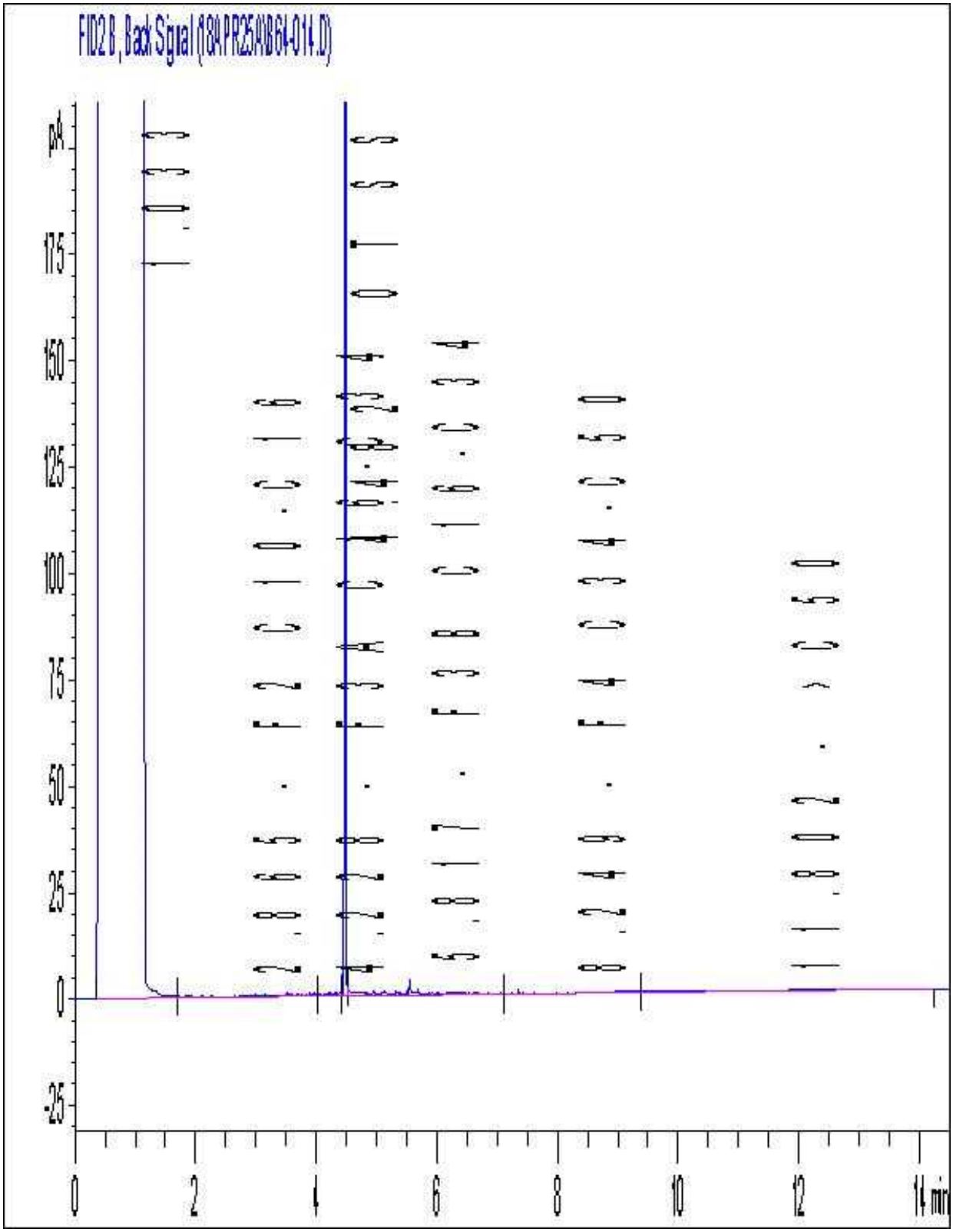


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B889899
Report Date: 2018/04/30
Maxxam Sample: GMR462

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180419-JK18

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

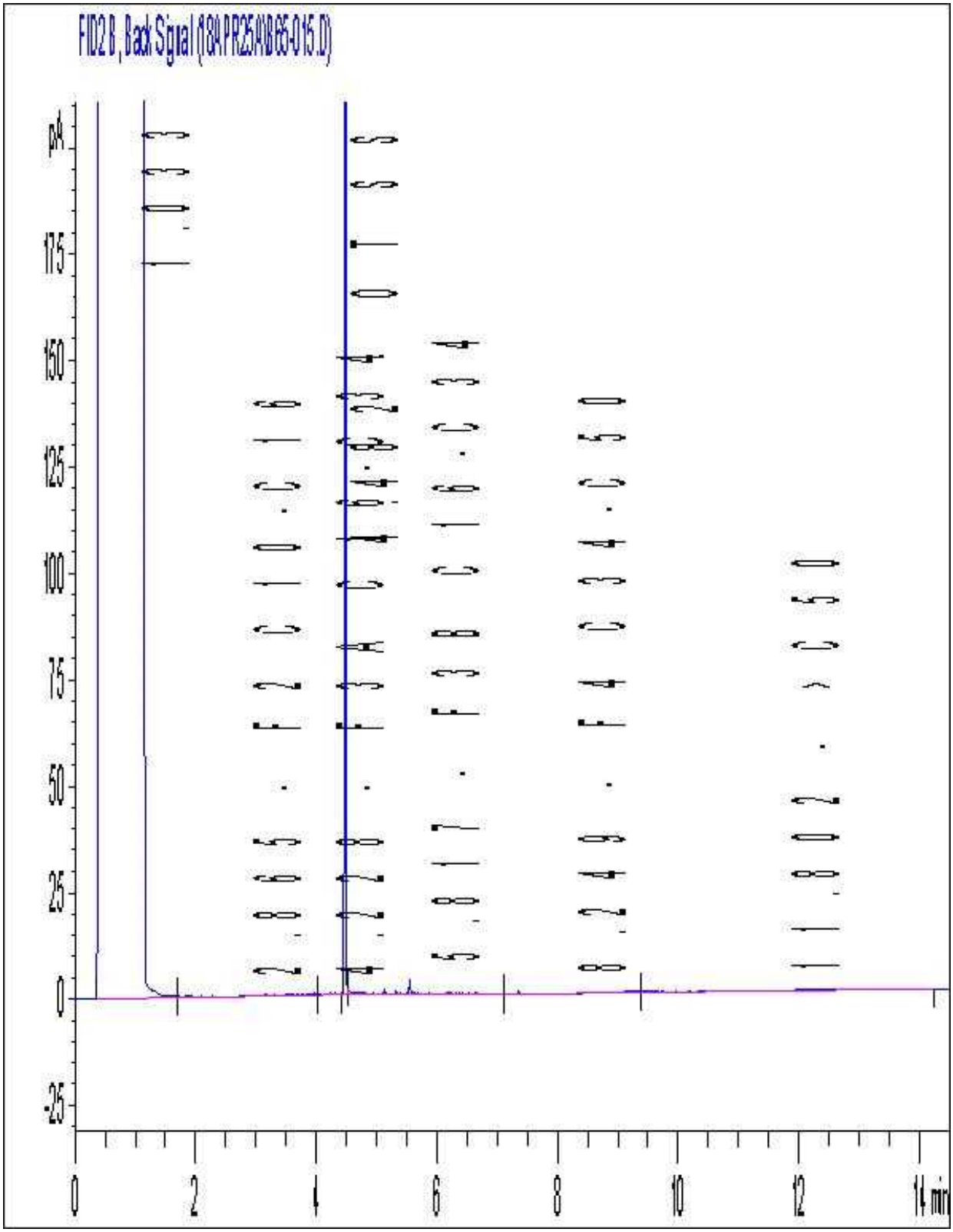


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B889899
Report Date: 2018/04/30
Maxxam Sample: GMR463

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180419-JK19

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

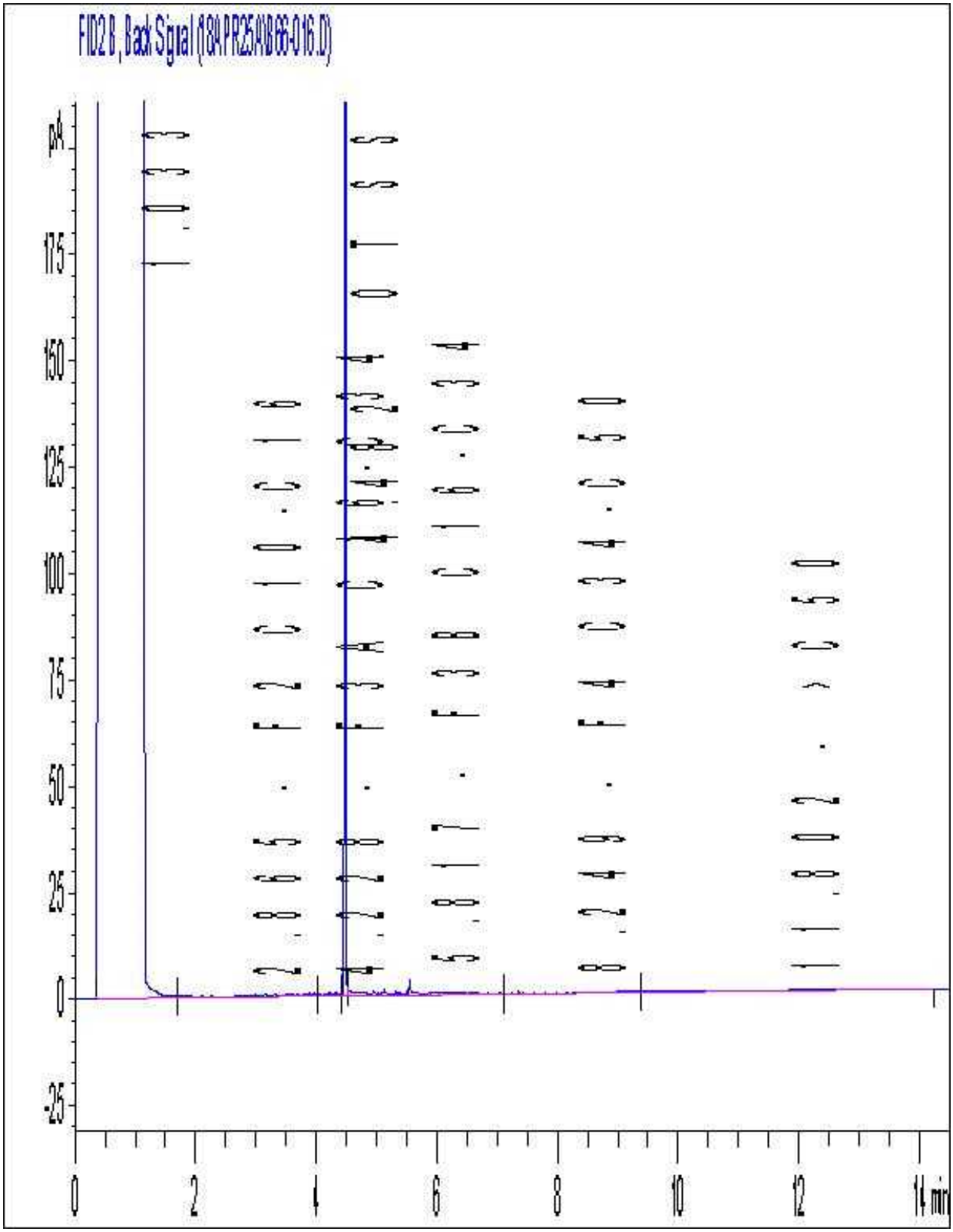


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B889899
Report Date: 2018/04/30
Maxxam Sample: GMR464

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180419-JK20

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

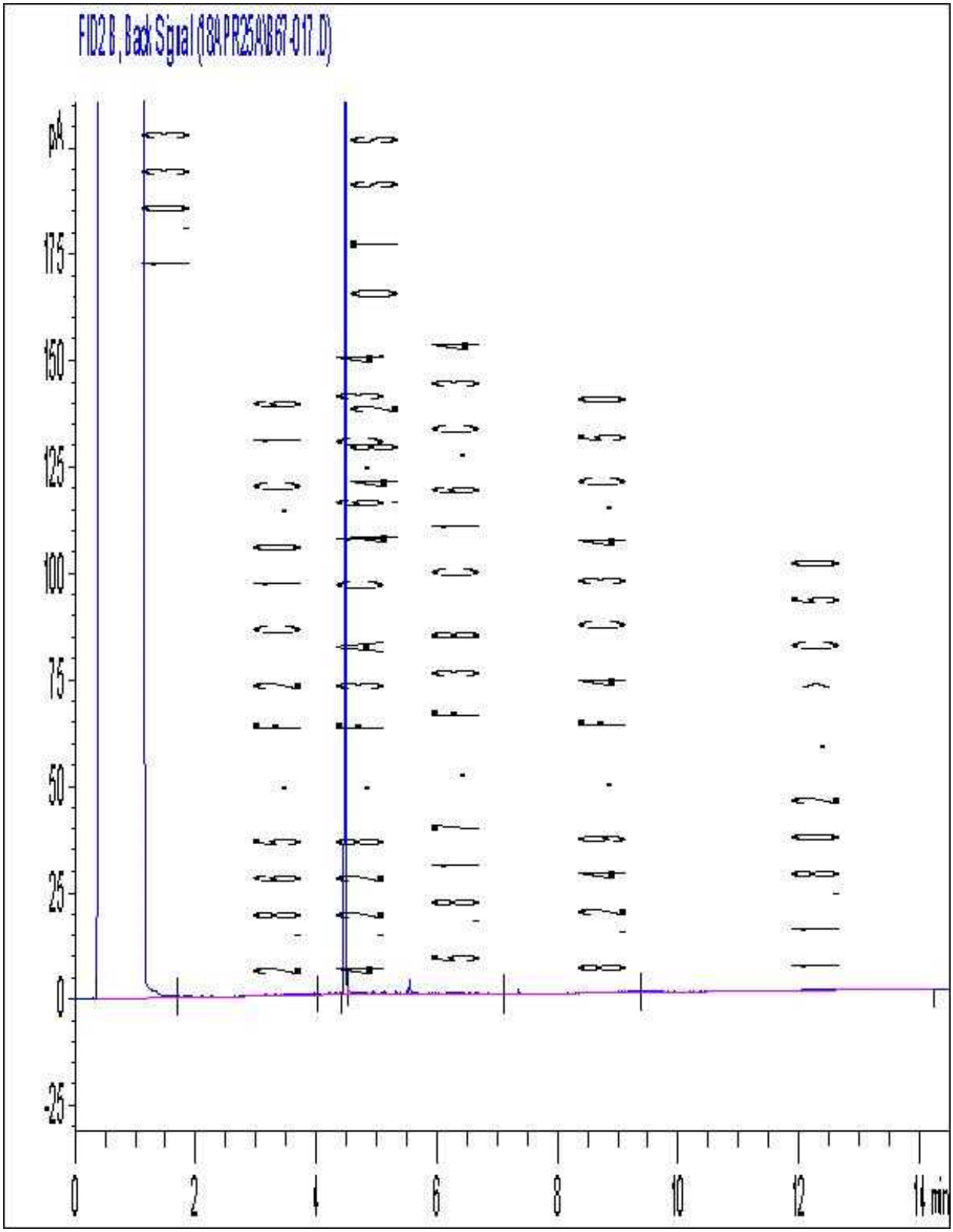


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B889899
Report Date: 2018/04/30
Maxxam Sample: GMR465

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180419-JK21

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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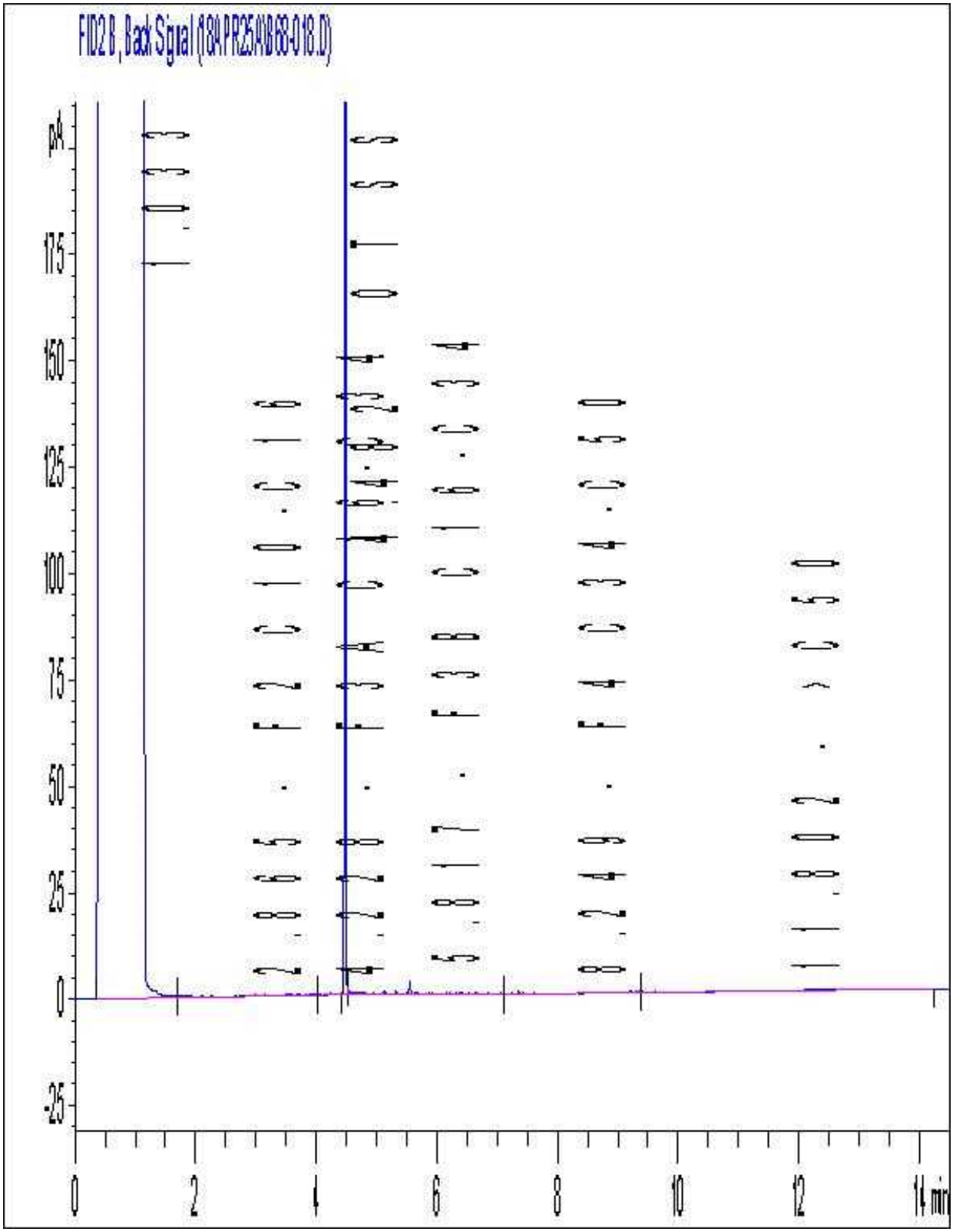
Maxxam Job #: B889899
Report Date: 2018/04/30
Maxxam Sample: GMR466

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - PRIVATE WELL
Client ID: WG-160900764-20180420-JK22

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.