Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Your C.O.C. #: 657876-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/04/26
Report #: R5092949
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B888914
Received: 2018/04/19, 08:30

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	9	N/A	2018/04/24	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	4	2018/04/19	2018/04/23	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by SIM GC/MS	6	2018/04/19	2018/04/24	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	4	N/A	2018/04/25		SM 22 2310
Alkalinity	4	N/A	2018/04/21	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	4	N/A	2018/04/23	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	4	N/A	2018/04/26		EPA 8260C m
Chloride by Automated Colourimetry	4	N/A	2018/04/23	CAM SOP-00463	EPA 325.2 m
Conductivity	4	N/A	2018/04/21	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	4	N/A	2018/04/25	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	4	N/A	2018/04/23	CAM SOP-00457	OMOE E3015 m
Dissolved Organic Carbon (DOC) (2)	4	N/A	2018/04/20	CAM SOP-00446	SM 23 5310 B m
Petroleum Hydrocarbons F2-F4 in Water (3)	4	2018/04/24	2018/04/25	CAM SOP-00316	CCME PHC-CWS m
Fluoride	4	2018/04/20	2018/04/21	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	4	N/A	2018/04/23	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	4	2018/04/23	2018/04/23	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	4	N/A	2018/04/20	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	4	N/A	2018/04/23		
Anion and Cation Sum	4	N/A	2018/04/23		
Total Ammonia-N	4	N/A	2018/04/25	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (4)	4	N/A	2018/04/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	3	2018/04/20	2018/04/20	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Water	1	2018/04/20	2018/04/21	CAM SOP-00309	EPA 8082A m
pH	4	N/A	2018/04/21	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	4	N/A	2018/04/22	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	4	N/A	2018/04/23		
Sat. pH and Langelier Index (@ 4C)	4	N/A	2018/04/23		
Sulphate by Automated Colourimetry	4	N/A	2018/04/23	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	4	N/A	2018/04/23		

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

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Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Dissolved Solids	4	2018/04/20	2018/04/25	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (5)	4	N/A	2018/04/24	CAM SOP-00446	SM 23 5310B m
Total Suspended Solids	4	2018/04/20	2018/04/25	CAM SOP-00428	SM 23 2540D m
Turbidity	4	N/A	2018/04/20	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	4	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.

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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(5) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

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Encryption Key

Ronklin Gracian
Project Manager
26 Apr 2018 16:58:22

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Deepthi Shaji, Project Manager
Email: dshaji@maxxam.ca
Phone# (905)817-5700 Ext:5807
==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		GMM258			GMM258		
Sampling Date		2018/04/18 11:50			2018/04/18 11:50		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD05 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	2.18	N/A	5491830			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	95	1.0	5492285			
Calculated TDS	mg/L	120	1.0	5491698			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.5	1.0	5492285			
Cation Sum	me/L	1.94	N/A	5491830			
Hardness (CaCO3)	mg/L	43	1.0	5492286			
Ion Balance (% Difference)	%	NC	N/A	5492113			
Langelier Index (@ 20C)	N/A	-0.222		5491831			
Langelier Index (@ 4C)	N/A	-0.473		5491832			
Saturation pH (@ 20C)	N/A	8.45		5491831			
Saturation pH (@ 4C)	N/A	8.70		5491832			
Inorganics							
Total Ammonia-N	mg/L	0.10	0.050	5498300	0.077	0.050	5498300
Conductivity	umho/cm	190	1.0	5493715			
Dissolved Organic Carbon	mg/L	0.74	0.50	5494633			
Orthophosphate (P)	mg/L	<0.010	0.010	5494221			
pH	pH	8.22		5493718			
Dissolved Sulphate (SO4)	mg/L	8.3	1.0	5494218			
Alkalinity (Total as CaCO3)	mg/L	97	1.0	5493711			
Dissolved Chloride (Cl)	mg/L	1.2	1.0	5494214			
Nitrite (N)	mg/L	<0.010	0.010	5493992	<0.010	0.010	5493992
Nitrate (N)	mg/L	<0.10	0.10	5493992	<0.10	0.10	5493992
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	5493992	<0.10	0.10	5493992
Metals							
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	5493502			
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	5493502			
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	5493502			
Dissolved Barium (Ba)	mg/L	0.020	0.0020	5493502			
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	5493502			

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

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		GMM258			GMM258		
Sampling Date		2018/04/18 11:50			2018/04/18 11:50		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD05 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Boron (B)	mg/L	0.12	0.010	5493502			
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	5493502			
Dissolved Calcium (Ca)	mg/L	8.5	0.20	5493502			
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	5493502			
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	5493502			
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	5493502			
Dissolved Iron (Fe)	mg/L	<0.10	0.10	5493502			
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	5493502			
Dissolved Magnesium (Mg)	mg/L	5.1	0.050	5493502			
Dissolved Manganese (Mn)	mg/L	0.0032	0.0020	5493502			
Dissolved Molybdenum (Mo)	mg/L	0.0031	0.00050	5493502			
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	5493502			
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	5493502			
Dissolved Potassium (K)	mg/L	1.7	0.20	5493502			
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	5493502			
Dissolved Silicon (Si)	mg/L	4.5	0.050	5493502			
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	5493502			
Dissolved Sodium (Na)	mg/L	24	0.10	5493502			
Dissolved Strontium (Sr)	mg/L	0.26	0.0010	5493502			
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	5493502			
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	5493502			
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	5493502			
Dissolved Vanadium (V)	mg/L	<0.00050	0.00050	5493502			
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	5493502			
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	5493502			

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Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		GMM260			GMM262		
Sampling Date		2018/04/18 10:18			2018/04/18 14:15		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD06**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD07**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	4.36	N/A	5491830	14.2	N/A	5492528
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	5492285	160	1.0	5492285
Calculated TDS	mg/L	220	1.0	5491698	920	1.0	5491698
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.2	1.0	5492285	1.4	1.0	5492285
Cation Sum	me/L	4.13	N/A	5491830	14.7	N/A	5492528
Hardness (CaCO3)	mg/L	180	1.0	5492286	350	1.0	5492286
Ion Balance (% Difference)	%	2.73	N/A	5492113	1.58	N/A	5492113
Langelier Index (@ 20C)	N/A	0.434		5491831	0.555		5491831
Langelier Index (@ 4C)	N/A	0.185		5491832	0.310		5491832
Saturation pH (@ 20C)	N/A	7.67		5491831	7.43		5491831
Saturation pH (@ 4C)	N/A	7.92		5491832	7.68		5491832
Inorganics							
Total Ammonia-N	mg/L	0.11	0.050	5498300	<0.050	0.050	5498300
Conductivity	umho/cm	390	1.0	5493715	1400	1.0	5493715
Dissolved Organic Carbon	mg/L	0.74	0.50	5494633	1.3	0.50	5494633
Orthophosphate (P)	mg/L	<0.010	0.010	5494221	<0.010	0.010	5494221
pH	pH	8.10		5493718	7.98		5493718
Dissolved Sulphate (SO4)	mg/L	25	1.0	5494218	500	2.0	5494218
Alkalinity (Total as CaCO3)	mg/L	180	1.0	5493711	160	1.0	5493711
Dissolved Chloride (Cl)	mg/L	4.6	1.0	5494214	20	1.0	5494214
Nitrite (N)	mg/L	<0.010	0.010	5493992	<0.010	0.010	5493992
Nitrate (N)	mg/L	<0.10	0.10	5493992	<0.10	0.10	5493992
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	5493992	<0.10	0.10	5493992
Metals							
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	5493502	<0.0050	0.0050	5493502
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	5493502	<0.00050	0.00050	5493502
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	5493502	<0.0010	0.0010	5493502
Dissolved Barium (Ba)	mg/L	0.063	0.0020	5493502	0.019	0.0020	5493502
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	5493502	<0.00050	0.00050	5493502
Dissolved Boron (B)	mg/L	0.033	0.010	5493502	0.27	0.010	5493502

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

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Report Date: 2018/04/26

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Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		GMM260			GMM262		
Sampling Date		2018/04/18 10:18			2018/04/18 14:15		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD06**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD07**	**RDL**	**QC Batch**
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	5493502	<0.00010	0.00010	5493502
Dissolved Calcium (Ca)	mg/L	29	0.20	5493502	84	0.20	5493502
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	5493502	<0.0050	0.0050	5493502
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	5493502	<0.00050	0.00050	5493502
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	5493502	<0.0010	0.0010	5493502
Dissolved Iron (Fe)	mg/L	<0.10	0.10	5493502	<0.10	0.10	5493502
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	5493502	<0.00050	0.00050	5493502
Dissolved Magnesium (Mg)	mg/L	27	0.050	5493502	35	0.050	5493502
Dissolved Manganese (Mn)	mg/L	0.024	0.0020	5493502	0.0027	0.0020	5493502
Dissolved Molybdenum (Mo)	mg/L	0.0014	0.00050	5493502	0.081	0.00050	5493502
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	5493502	0.0027	0.0010	5493502
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	5493502	<0.10	0.10	5493502
Dissolved Potassium (K)	mg/L	1.8	0.20	5493502	4.5	0.20	5493502
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	5493502	<0.0020	0.0020	5493502
Dissolved Silicon (Si)	mg/L	6.8	0.050	5493502	3.7	0.050	5493502
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	5493502	<0.00010	0.00010	5493502
Dissolved Sodium (Na)	mg/L	9.6	0.10	5493502	170	0.10	5493502
Dissolved Strontium (Sr)	mg/L	0.56	0.0010	5493502	1.4	0.0010	5493502
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	5493502	<0.000050	0.000050	5493502
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	5493502	<0.0050	0.0050	5493502
Dissolved Uranium (U)	mg/L	0.00026	0.00010	5493502	0.0045	0.00010	5493502
Dissolved Vanadium (V)	mg/L	<0.00050	0.00050	5493502	<0.00050	0.00050	5493502
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	5493502	<0.0050	0.0050	5493502
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	5493502	<0.0010	0.0010	5493502

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		GMM264			GMM264		
Sampling Date		2018/04/18 14:15			2018/04/18 14:15		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD08 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	me/L	7.42	N/A	5492528			
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	230	1.0	5492285			
Calculated TDS	mg/L	390	1.0	5491698			
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.1	1.0	5492285			
Cation Sum	me/L	7.06	N/A	5492528			
Hardness (CaCO3)	mg/L	300	1.0	5492286			
Ion Balance (% Difference)	%	2.52	N/A	5492113			
Langelier Index (@ 20C)	N/A	0.676		5491831			
Langelier Index (@ 4C)	N/A	0.427		5491832			
Saturation pH (@ 20C)	N/A	7.33		5491831			
Saturation pH (@ 4C)	N/A	7.57		5491832			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5498300			
Conductivity	umho/cm	710	1.0	5493715			
Dissolved Organic Carbon	mg/L	0.85	0.50	5494633			
Orthophosphate (P)	mg/L	<0.010	0.010	5494221	<0.010	0.010	5494221
pH	pH	8.00		5493718			
Dissolved Sulphate (SO4)	mg/L	78	1.0	5494218	79	1.0	5494218
Alkalinity (Total as CaCO3)	mg/L	230	1.0	5493711			
Dissolved Chloride (Cl)	mg/L	41	1.0	5494214	41	1.0	5494214
Nitrite (N)	mg/L	<0.010	0.010	5493992			
Nitrate (N)	mg/L	0.56	0.10	5493992			
Nitrate + Nitrite (N)	mg/L	0.56	0.10	5493992			
Metals							
Dissolved Aluminum (Al)	mg/L	<0.0050	0.0050	5493502			
Dissolved Antimony (Sb)	mg/L	<0.00050	0.00050	5493502			
Dissolved Arsenic (As)	mg/L	<0.0010	0.0010	5493502			
Dissolved Barium (Ba)	mg/L	0.050	0.0020	5493502			
Dissolved Beryllium (Be)	mg/L	<0.00050	0.00050	5493502			

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

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RCAP - COMPREHENSIVE (WATER)

Maxxam ID		GMM264			GMM264		
Sampling Date		2018/04/18 14:15			2018/04/18 14:15		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD08 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Boron (B)	mg/L	0.073	0.010	5493502			
Dissolved Cadmium (Cd)	mg/L	<0.00010	0.00010	5493502			
Dissolved Calcium (Ca)	mg/L	57	0.20	5493502			
Dissolved Chromium (Cr)	mg/L	<0.0050	0.0050	5493502			
Dissolved Cobalt (Co)	mg/L	<0.00050	0.00050	5493502			
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	5493502			
Dissolved Iron (Fe)	mg/L	<0.10	0.10	5493502			
Dissolved Lead (Pb)	mg/L	<0.00050	0.00050	5493502			
Dissolved Magnesium (Mg)	mg/L	38	0.050	5493502			
Dissolved Manganese (Mn)	mg/L	0.0035	0.0020	5493502			
Dissolved Molybdenum (Mo)	mg/L	0.0059	0.00050	5493502			
Dissolved Nickel (Ni)	mg/L	<0.0010	0.0010	5493502			
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	5493502			
Dissolved Potassium (K)	mg/L	4.5	0.20	5493502			
Dissolved Selenium (Se)	mg/L	<0.0020	0.0020	5493502			
Dissolved Silicon (Si)	mg/L	5.3	0.050	5493502			
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	5493502			
Dissolved Sodium (Na)	mg/L	22	0.10	5493502			
Dissolved Strontium (Sr)	mg/L	0.80	0.0010	5493502			
Dissolved Thallium (Tl)	mg/L	<0.000050	0.000050	5493502			
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	5493502			
Dissolved Uranium (U)	mg/L	0.0029	0.00010	5493502			
Dissolved Vanadium (V)	mg/L	0.00060	0.00050	5493502			
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	5493502			
Dissolved Zirconium (Zr)	mg/L	<0.0010	0.0010	5493502			

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

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

RESULTS OF ANALYSES OF WATER

Maxxam ID		GMM258	GMM260	GMM262		
Sampling Date		2018/04/18 11:50	2018/04/18 10:18	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD06**	**WG-160900764-20180418-RD07**	**RDL**	**QC Batch**
Inorganics						
Acidity	mg/L	<5.0	<5.0	<5.0	5.0	5500583
Total Dissolved Solids	mg/L	140	210	1040	10	5494138
Fluoride (F-)	mg/L	0.77	0.28	0.40	0.10	5493717
Total Organic Carbon (TOC)	mg/L	0.94	0.79	2.7	0.50	5496867
Total Suspended Solids	mg/L	22	11	460	10	5494131
Turbidity	NTU	31	7.0	64	0.1	5493709
WAD Cyanide (Free)	ug/L	<1	<1	<1	1	5496427

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		GMM262			GMM264		
Sampling Date		2018/04/18 14:15			2018/04/18 14:15		
COC Number		657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD07 Lab-Dup**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L				8.8	5.0	5500583
Total Dissolved Solids	mg/L	1010	10	5494138	390	10	5494138
Fluoride (F-)	mg/L				0.28	0.10	5493717
Total Organic Carbon (TOC)	mg/L				0.85	0.50	5496867
Total Suspended Solids	mg/L				13	10	5494131
Turbidity	NTU	67	0.1	5493709	0.7	0.1	5493709
WAD Cyanide (Free)	ug/L				<1	1	5496427

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 - MONITORING WEL
Sampler Initials: RD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		GMM258	GMM260	GMM262	GMM264		
Sampling Date		2018/04/18 11:50	2018/04/18 10:18	2018/04/18 14:15	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD06**	**WG-160900764-20180418-RD07**	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	5494952
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5496361

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PCBS (WATER)

Maxxam ID		GMM258	GMM260	GMM262	GMM264		
Sampling Date		2018/04/18 11:50	2018/04/18 10:18	2018/04/18 14:15	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD06**	**WG-160900764-20180418-RD07**	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5494063
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5494063
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5494063
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5494063
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5494063
Surrogate Recovery (%)							
Decachlorobiphenyl	%	105	115	103	116		5494063

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

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

Maxxam ID		GMM258	GMM260			GMM260		
Sampling Date		2018/04/18 11:50	2018/04/18 10:18			2018/04/18 10:18		
COC Number		657876-01-01	657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD06**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD06 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5492263			
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	10	5493500			
Benzene	ug/L	<0.20	<0.20	0.20	5493500			
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5493500			
Bromoform	ug/L	<1.0	<1.0	1.0	5493500			
Bromomethane	ug/L	<0.50	<0.50	0.50	5493500			
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5493500			
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5493500			
Chloroform	ug/L	<0.20	<0.20	0.20	5493500			
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5493500			
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5493500			
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5493500			
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5493500			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5493500			
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5493500			
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5493500			
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5493500			
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5493500			
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5493500			
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5493500			
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5493500			
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5493500			
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5493500			
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5493500			
Hexane	ug/L	<1.0	<1.0	1.0	5493500			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5493500			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5493500			
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5493500			
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5493500			

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

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

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

Maxxam ID		GMM258	GMM260			GMM260		
Sampling Date		2018/04/18 11:50	2018/04/18 10:18			2018/04/18 10:18		
COC Number		657876-01-01	657876-01-01			657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD06**	**RDL**	**QC Batch**	**WG-160900764-20180418-RD06 Lab-Dup**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5493500			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5493500			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5493500			
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5493500			
Toluene	ug/L	<0.20	<0.20	0.20	5493500			
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5493500			
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5493500			
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5493500			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5493500			
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5493500			
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5493500			
o-Xylene	ug/L	<0.20	<0.20	0.20	5493500			
Total Xylenes	ug/L	<0.20	<0.20	0.20	5493500			
F1 (C6-C10)	ug/L	<25	<25	25	5493500			
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5493500			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5497979	<100	100	5497979
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5497979	<200	200	5497979
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5497979	<200	200	5497979
Reached Baseline at C50	ug/L	Yes	Yes		5497979	Yes		5497979
Surrogate Recovery (%)								
o-Terphenyl	%	99	95		5497979	102		5497979
4-Bromofluorobenzene	%	89	89		5493500			
D4-1,2-Dichloroethane	%	108	107		5493500			
D8-Toluene	%	98	99		5493500			

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

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

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

Maxxam ID		GMM262	GMM264		
Sampling Date		2018/04/18 14:15	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD07**	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5492263
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	5493500
Benzene	ug/L	<0.20	<0.20	0.20	5493500
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5493500
Bromoform	ug/L	<1.0	<1.0	1.0	5493500
Bromomethane	ug/L	<0.50	<0.50	0.50	5493500
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5493500
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5493500
Chloroform	ug/L	<0.20	<0.20	0.20	5493500
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5493500
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5493500
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5493500
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5493500
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5493500
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5493500
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5493500
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5493500
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5493500
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5493500
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5493500
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5493500
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5493500
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5493500
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5493500
Hexane	ug/L	<1.0	<1.0	1.0	5493500
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5493500
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5493500
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5493500
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5493500

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

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

Maxxam ID		GMM262	GMM264		
Sampling Date		2018/04/18 14:15	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD07**	**WG-160900764-20180418-RD08**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5493500
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5493500
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5493500
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5493500
Toluene	ug/L	<0.20	<0.20	0.20	5493500
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5493500
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5493500
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5493500
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5493500
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5493500
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5493500
o-Xylene	ug/L	<0.20	<0.20	0.20	5493500
Total Xylenes	ug/L	<0.20	<0.20	0.20	5493500
F1 (C6-C10)	ug/L	<25	<25	25	5493500
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5493500
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5497979
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5497979
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5497979
Reached Baseline at C50	ug/L	Yes	Yes		5497979
Surrogate Recovery (%)					
o-Terphenyl	%	100	98		5497979
4-Bromofluorobenzene	%	91	91		5493500
D4-1,2-Dichloroethane	%	109	107		5493500
D8-Toluene	%	98	98		5493500

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM258	GMM259	GMM260	GMM261		
Sampling Date		2018/04/18 11:50	2018/04/18 11:50	2018/04/18 10:18	2018/04/18 10:18		
COC Number		657876-01-01	657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD05A**	**WG-160900764-20180418-RD06**	**WG-160900764-20180418-RD06A**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5493085
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5493085
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5493085
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	<0.01	0.01	5493085
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	5493085
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM258	GMM259	GMM260	GMM261		
Sampling Date		2018/04/18 11:50	2018/04/18 11:50	2018/04/18 10:18	2018/04/18 10:18		
COC Number		657876-01-01	657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD05**	**WG-160900764-20180418-RD05A**	**WG-160900764-20180418-RD06**	**WG-160900764-20180418-RD06A**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5493085
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5491470
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	45 (1)	36 (1)	46 (1)	45 (1)		5493085
2-Fluorobiphenyl	%	53	56	74	68		5493085
D14-Terphenyl (FS)	%	119	15 (1)	118	16 (1)		5493085
D5-Nitrobenzene	%	46 (1)	50	62	59		5493085

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 #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM262	GMM263	GMM264	GMM265		
Sampling Date		2018/04/18 14:15	2018/04/18 14:15	2018/04/18 14:15	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD07**	**WG-160900764-20180418-RD07A**	**WG-160900764-20180418-RD08**	**WG-160900764-20180418-RD08A**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5493085
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5493085
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5493085
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(a)pyrene	ug/L	0.01	<0.01	<0.01	<0.01	0.01	5493085
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Bis(2-ethylhexyl)phthalate	ug/L	5	<1	<1	<1	1	5493085
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM262	GMM263	GMM264	GMM265		
Sampling Date		2018/04/18 14:15	2018/04/18 14:15	2018/04/18 14:15	2018/04/18 14:15		
COC Number		657876-01-01	657876-01-01	657876-01-01	657876-01-01		
	UNITS	**WG-160900764-20180418-RD07**	**WG-160900764-20180418-RD07A**	**WG-160900764-20180418-RD08**	**WG-160900764-20180418-RD08A**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5493085
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5493085
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5493085
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5493085
Pyrene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5493085
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5491470
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	44 (1)	98	59	83		5493085
2-Fluorobiphenyl	%	69	59	73	77		5493085
D14-Terphenyl (FS)	%	115	6.2 (1)	118	9.8 (1)		5493085
D5-Nitrobenzene	%	52	49 (1)	63	70		5493085

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 #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
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Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM911			GMM912		
Sampling Date		2018/04/18			2018/04/18		
COC Number		657876-01-01			657876-01-01		
	UNITS	FILTERED BLANK	RDL	QC Batch	FILTERED SPIKE	RDL	QC Batch
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	5493085	68	1	5493085
1-Methylnaphthalene	ug/L	<0.2	0.2	5493085	80	1	5493085
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	5493085	110	1	5493085
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	5493085	100	1	5493085
2,4-Dichlorophenol	ug/L	<0.1	0.1	5493085	86	1	5493085
2,4-Dimethylphenol	ug/L	<0.5	0.5	5493085	31	1	5493085
2,4-Dinitrophenol	ug/L	<2	2	5493085	120	1	5493085
2,4-Dinitrotoluene	ug/L	<0.3	0.3	5493085	95	1	5493085
2,6-Dinitrotoluene	ug/L	<0.3	0.3	5493085	96	1	5493085
2-Chlorophenol	ug/L	<0.1	0.1	5493085	75	1	5493085
2-Methylnaphthalene	ug/L	<0.2	0.2	5493085	79	1	5493085
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	5493085	71	1	5493085
Acenaphthene	ug/L	<0.2	0.2	5493085	94	1	5493085
Acenaphthylene	ug/L	<0.2	0.2	5493085	93	1	5493085
Anthracene	ug/L	<0.05	0.05	5493085	42 (1)	1	5493085
Benzo(a)anthracene	ug/L	<0.05	0.05	5493085	18 (1)	1	5493085
Benzo(a)pyrene	ug/L	<0.01	0.01	5493085	12 (1)	1	5493085
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	5493085	15 (1)	1	5493085
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5493085	9 (1)	1	5493085
Benzo(k)fluoranthene	ug/L	<0.05	0.05	5493085	16 (1)	1	5493085
Biphenyl	ug/L	<0.1	0.1	5493085	78	1	5493085
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	5493085	84	1	5493085
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	5493085	84	1	5493085
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	5493085	21 (1)	1	5493085
Chrysene	ug/L	<0.05	0.05	5493085	16 (1)	1	5493085
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	5493085	7 (1)	1	5493085
Diethyl phthalate	ug/L	<0.1	0.1	5493085	97	1	5493085
Dimethyl phthalate	ug/L	<0.1	0.1	5493085	89	1	5493085
Fluoranthene	ug/L	<0.2	0.2	5493085	50	1	5493085

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM911			GMM912		
Sampling Date		2018/04/18			2018/04/18		
COC Number		657876-01-01			657876-01-01		
	UNITS	**FILTERED BLANK**	**RDL**	**QC Batch**	**FILTERED SPIKE**	**RDL**	**QC Batch**
Fluorene	ug/L	<0.2	0.2	5493085	84	1	5493085
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	5493085	7 (1)	1	5493085
Naphthalene	ug/L	<0.2	0.2	5493085	82	1	5493085
p-Chloroaniline	ug/L	<1	1	5493085	64	1	5493085
Pentachlorophenol	ug/L	<0.1	0.1	5493085	100	1	5493085
Phenanthrene	ug/L	<0.1	0.1	5493085	68	1	5493085
Phenol	ug/L	<0.5	0.5	5493085	34	1	5493085
Pyrene	ug/L	<0.05	0.05	5493085	48 (1)	1	5493085
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28	5491470			
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	12 (2)		5493085	101		5493085
2-Fluorobiphenyl	%	70		5493085	81		5493085
D14-Terphenyl (FS)	%	8.5 (2)		5493085	60		5493085
D5-Nitrobenzene	%	63		5493085	82		5493085

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

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

(2) 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 #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: GMM258
Sample ID: WG-160900764-20180418-RD05
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/23	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5493711	N/A	2018/04/21	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	5492285	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5492263	N/A	2018/04/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	5494214	N/A	2018/04/23	Deonarine Ramnarine
Conductivity	AT	5493715	N/A	2018/04/21	Yogesh Patel
Chromium (VI) in Water	IC	5494952	N/A	2018/04/25	Rupinder Sihota
Free (WAD) Cyanide	SKAL/CN	5496427	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5494633	N/A	2018/04/20	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5497979	2018/04/24	2018/04/25	(Kent) Maolin Li
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5493502	N/A	2018/04/20	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5492113	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5491830	N/A	2018/04/23	Automated Statchk
Total Ammonia-N	LACH/NH4	5498300	N/A	2018/04/25	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5493992	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5494063	2018/04/20	2018/04/20	Sarah Huang
pH	AT	5493718	N/A	2018/04/21	Yogesh Patel
Orthophosphate	KONE	5494221	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5491831	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5491698	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5494138	2018/04/20	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov
Total Suspended Solids	BAL	5494131	2018/04/20	2018/04/25	Fang Wang
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5493500	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMM258 Dup
Sample ID: WG-160900764-20180418-RD05
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	5498300	N/A	2018/04/25	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5493992	N/A	2018/04/23	Chandra Nandlal

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Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: GMM259
Sample ID: WG-160900764-20180418-RD05A
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/23	Milijana Avramovic

Maxxam ID: GMM260
Sample ID: WG-160900764-20180418-RD06
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/23	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5493711	N/A	2018/04/21	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	5492285	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5492263	N/A	2018/04/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	5494214	N/A	2018/04/23	Deonarine Ramnarine
Conductivity	AT	5493715	N/A	2018/04/21	Yogesh Patel
Chromium (VI) in Water	IC	5494952	N/A	2018/04/25	Rupinder Sihota
Free (WAD) Cyanide	SKAL/CN	5496427	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5494633	N/A	2018/04/20	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5497979	2018/04/24	2018/04/25	(Kent) Maolin Li
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5493502	N/A	2018/04/20	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5492113	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5491830	N/A	2018/04/23	Automated Statchk
Total Ammonia-N	LACH/NH4	5498300	N/A	2018/04/25	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5493992	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5494063	2018/04/20	2018/04/20	Sarah Huang
pH	AT	5493718	N/A	2018/04/21	Yogesh Patel
Orthophosphate	KONE	5494221	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5491831	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5491698	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5494138	2018/04/20	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov
Total Suspended Solids	BAL	5494131	2018/04/20	2018/04/25	Fang Wang
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5493500	N/A	2018/04/25	Xueming Jiang

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: GMM260 Dup
Sample ID: WG-160900764-20180418-RD06
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5497979	2018/04/24	2018/04/25	(Kent) Maolin Li

Maxxam ID: GMM261
Sample ID: WG-160900764-20180418-RD06A
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/23	Milijana Avramovic

Maxxam ID: GMM262
Sample ID: WG-160900764-20180418-RD07
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/24	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5493711	N/A	2018/04/21	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	5492285	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5492263	N/A	2018/04/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	5494214	N/A	2018/04/23	Deonarine Ramnarine
Conductivity	AT	5493715	N/A	2018/04/21	Yogesh Patel
Chromium (VI) in Water	IC	5494952	N/A	2018/04/25	Rupinder Sihota
Free (WAD) Cyanide	SKAL/CN	5496427	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5494633	N/A	2018/04/20	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5497979	2018/04/24	2018/04/25	(Kent) Maolin Li
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5493502	N/A	2018/04/20	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5492113	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5492528	N/A	2018/04/23	Automated Statchk
Total Ammonia-N	LACH/NH4	5498300	N/A	2018/04/25	Parminder Sangha
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5493992	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5494063	2018/04/20	2018/04/20	Sarah Huang
pH	AT	5493718	N/A	2018/04/21	Yogesh Patel
Orthophosphate	KONE	5494221	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5491831	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5491698	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5494138	2018/04/20	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: GMM262
Sample ID: WG-160900764-20180418-RD07
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	5494131	2018/04/20	2018/04/25	Fang Wang
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5493500	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMM262 Dup
Sample ID: WG-160900764-20180418-RD07
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	5494138	2018/04/20	2018/04/25	Massarat Jan
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar

Maxxam ID: GMM263
Sample ID: WG-160900764-20180418-RD07A
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/24	Milijana Avramovic

Maxxam ID: GMM264
Sample ID: WG-160900764-20180418-RD08
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/24	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500583	N/A	2018/04/25	Brent Boudreau
Alkalinity	AT	5493711	N/A	2018/04/21	Yogesh Patel
Carbonate, Bicarbonate and Hydroxide	CALC	5492285	N/A	2018/04/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	5492263	N/A	2018/04/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	5494214	N/A	2018/04/23	Deonarine Ramnarine
Conductivity	AT	5493715	N/A	2018/04/21	Yogesh Patel
Chromium (VI) in Water	IC	5494952	N/A	2018/04/25	Rupinder Sihota
Free (WAD) Cyanide	SKAL/CN	5496427	N/A	2018/04/23	Xuanhong Qiu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	5494633	N/A	2018/04/20	Anastasia Hamanov
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5497979	2018/04/24	2018/04/25	(Kent) Maolin Li
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/23	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Dissolved Metals by ICPMS	ICP/MS	5493502	N/A	2018/04/20	Matthew Ritenburg
Ion Balance (% Difference)	CALC	5492113	N/A	2018/04/23	Automated Statchk
Anion and Cation Sum	CALC	5492528	N/A	2018/04/23	Automated Statchk
Total Ammonia-N	LACH/NH4	5498300	N/A	2018/04/25	Parminder Sangha

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

TEST SUMMARY

Maxxam ID: GMM264
Sample ID: WG-160900764-20180418-RD08
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5493992	N/A	2018/04/23	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5494063	2018/04/20	2018/04/21	Sarah Huang
pH	AT	5493718	N/A	2018/04/21	Yogesh Patel
Orthophosphate	KONE	5494221	N/A	2018/04/22	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5491831	N/A	2018/04/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/23	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids (TDS calc)	CALC	5491698	N/A	2018/04/23	Automated Statchk
Total Dissolved Solids	BAL	5494138	2018/04/20	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov
Total Suspended Solids	BAL	5494131	2018/04/20	2018/04/25	Fang Wang
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5493500	N/A	2018/04/25	Xueming Jiang

Maxxam ID: GMM264 Dup
Sample ID: WG-160900764-20180418-RD08
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	5494214	N/A	2018/04/23	Deonarine Ramnarine
Orthophosphate	KONE	5494221	N/A	2018/04/22	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine

Maxxam ID: GMM265
Sample ID: WG-160900764-20180418-RD08A
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/24	Milijana Avramovic

Maxxam ID: GMM911
Sample ID: FILTERED BLANK
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5491470	N/A	2018/04/24	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/24	Milijana Avramovic

Maxxam ID: GMM912
Sample ID: FILTERED SPIKE
Matrix: Water

Collected: 2018/04/18
Shipped:
Received: 2018/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5493085	2018/04/19	2018/04/24	Milijana Avramovic

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

GENERAL COMMENTS

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

Package 1	1.0°C
Package 2	2.0°C
Package 3	1.0°C
Package 4	1.0°C

Sample GMM912 [FILTERED SPIKE] : ABN analysis: Data are reported as percentage recoveries.

Results relate only to the items tested.

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Maxxam Job #: B888914
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

			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
5493085	2,4,6-Tribromophenol	2018/04/23			97	50 - 130	53	%				
5493085	2-Fluorobiphenyl	2018/04/23			75	50 - 130	88	%				
5493085	D14-Terphenyl (FS)	2018/04/23			110	50 - 130	106	%				
5493085	D5-Nitrobenzene	2018/04/23			77	50 - 130	79	%				
5493500	4-Bromofluorobenzene	2018/04/24	99	70 - 130	99	70 - 130	92	%				
5493500	D4-1,2-Dichloroethane	2018/04/24	106	70 - 130	102	70 - 130	105	%				
5493500	D8-Toluene	2018/04/24	102	70 - 130	103	70 - 130	98	%				
5494063	Decachlorobiphenyl	2018/04/20	114	60 - 130	109	60 - 130	99	%				
5497979	o-Terphenyl	2018/04/25	94	60 - 130	106	60 - 130	98	%				
5493085	1,2,4-Trichlorobenzene	2018/04/23			72	40 - 130	<0.1	ug/L	14	30		
5493085	1-Methylnaphthalene	2018/04/23			78	50 - 130	<0.2	ug/L	13	30		
5493085	2,4,5-Trichlorophenol	2018/04/23			99	50 - 130	<0.2	ug/L	9.8	30		
5493085	2,4,6-Trichlorophenol	2018/04/23			92	50 - 130	<0.2	ug/L	11	30		
5493085	2,4-Dichlorophenol	2018/04/23			85	50 - 130	<0.1	ug/L	9.0	30		
5493085	2,4-Dimethylphenol	2018/04/23			36	30 - 130	<0.5	ug/L	17	30		
5493085	2,4-Dinitrophenol	2018/04/23			126	30 - 130	<2	ug/L	1.6	30		
5493085	2,4-Dinitrotoluene	2018/04/23			93	50 - 130	<0.3	ug/L	0.47	30		
5493085	2,6-Dinitrotoluene	2018/04/23			91	50 - 130	<0.3	ug/L	4.9	30		
5493085	2-Chlorophenol	2018/04/23			73	50 - 130	<0.1	ug/L	12	30		
5493085	2-Methylnaphthalene	2018/04/23			77	50 - 130	<0.2	ug/L	13	30		
5493085	3,3'-Dichlorobenzidine	2018/04/23			93	30 - 130	<0.5	ug/L	8.6	30		
5493085	Acenaphthene	2018/04/23			91	50 - 130	<0.2	ug/L	11	30		
5493085	Acenaphthylene	2018/04/23			88	50 - 130	<0.2	ug/L	11	30		
5493085	Anthracene	2018/04/23			90	50 - 130	<0.05	ug/L	2.8	30		
5493085	Benzo(a)anthracene	2018/04/23			106	50 - 130	<0.05	ug/L	0.14	30		
5493085	Benzo(a)pyrene	2018/04/23			103	50 - 130	<0.01	ug/L	0.63	30		
5493085	Benzo(b/j)fluoranthene	2018/04/23			107	50 - 130	<0.05	ug/L	3.7	30		
5493085	Benzo(g,h,i)perylene	2018/04/23			100	50 - 130	<0.05	ug/L	4.4	30		
5493085	Benzo(k)fluoranthene	2018/04/23			108	50 - 130	<0.05	ug/L	7.3	30		
5493085	Biphenyl	2018/04/23			76	50 - 130	<0.1	ug/L	11	30		
5493085	Bis(2-chloroethyl)ether	2018/04/23			79	50 - 130	<0.5	ug/L	11	30		

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Maxxam Job #: B888914
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

			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
5493085	Bis(2-chloroisopropyl)ether	2018/04/23			80	50 - 130	<0.5	ug/L	12	30		
5493085	Bis(2-ethylhexyl)phthalate	2018/04/23			106	50 - 130	<1	ug/L	2.2	30		
5493085	Chrysene	2018/04/23			110	50 - 130	<0.05	ug/L	0.29	30		
5493085	Dibenz(a,h)anthracene	2018/04/23			95	50 - 130	<0.1	ug/L	3.9	30		
5493085	Diethyl phthalate	2018/04/23			97	50 - 130	<0.1	ug/L	1.7	30		
5493085	Dimethyl phthalate	2018/04/23			95	50 - 130	<0.1	ug/L	5.9	30		
5493085	Fluoranthene	2018/04/23			104	50 - 130	<0.2	ug/L	0.18	30		
5493085	Fluorene	2018/04/23			92	50 - 130	<0.2	ug/L	8.2	30		
5493085	Indeno(1,2,3-cd)pyrene	2018/04/23			89	50 - 130	<0.1	ug/L	3.0	30		
5493085	Naphthalene	2018/04/23			77	50 - 130	<0.2	ug/L	14	30		
5493085	p-Chloroaniline	2018/04/23			60	30 - 130	<1	ug/L	0.050	30		
5493085	Pentachlorophenol	2018/04/23			86	50 - 130	<0.1	ug/L	1.8	30		
5493085	Phenanthrene	2018/04/23			94	50 - 130	<0.1	ug/L	1.7	30		
5493085	Phenol	2018/04/23			34	30 - 130	<0.5	ug/L	12	30		
5493085	Pyrene	2018/04/23			108	50 - 130	<0.05	ug/L	0.13	30		
5493500	1,1,1,2-Tetrachloroethane	2018/04/25	100	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5493500	1,1,1-Trichloroethane	2018/04/25	97	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5493500	1,1,2,2-Tetrachloroethane	2018/04/25	104	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5493500	1,1,2-Trichloroethane	2018/04/25	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5493500	1,1-Dichloroethane	2018/04/25	98	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5493500	1,1-Dichloroethylene	2018/04/25	95	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5493500	1,2-Dichlorobenzene	2018/04/25	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5493500	1,2-Dichloroethane	2018/04/25	102	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5493500	1,2-Dichloropropane	2018/04/25	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5493500	1,3-Dichlorobenzene	2018/04/25	97	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5493500	1,4-Dichlorobenzene	2018/04/25	100	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
5493500	Acetone (2-Propanone)	2018/04/25	112	60 - 140	101	60 - 140	<10	ug/L	NC	30		
5493500	Benzene	2018/04/25	94	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5493500	Bromodichloromethane	2018/04/25	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5493500	Bromoform	2018/04/25	101	70 - 130	100	70 - 130	<1.0	ug/L	NC	30		
5493500	Bromomethane	2018/04/25	96	60 - 140	99	60 - 140	<0.50	ug/L	NC	30		

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A Bureau Veritas Group Company

Maxxam Job #: B888914
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

			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
5493500	Carbon Tetrachloride	2018/04/25	97	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5493500	Chlorobenzene	2018/04/25	95	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5493500	Chloroform	2018/04/25	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5493500	cis-1,2-Dichloroethylene	2018/04/25	98	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5493500	cis-1,3-Dichloropropene	2018/04/25	84	70 - 130	81	70 - 130	<0.30	ug/L	NC	30		
5493500	Dibromochloromethane	2018/04/25	101	70 - 130	100	70 - 130	<0.50	ug/L	NC	30		
5493500	Dichlorodifluoromethane (FREON 12)	2018/04/25	93	60 - 140	109	60 - 140	<1.0	ug/L	NC	30		
5493500	Ethylbenzene	2018/04/25	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5493500	Ethylene Dibromide	2018/04/25	103	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
5493500	F1 (C6-C10) - BTEX	2018/04/25					<25	ug/L	NC	30		
5493500	F1 (C6-C10)	2018/04/25	93	60 - 140	97	60 - 140	<25	ug/L	NC	30		
5493500	Hexane	2018/04/25	95	70 - 130	103	70 - 130	<1.0	ug/L	NC	30		
5493500	Methyl Ethyl Ketone (2-Butanone)	2018/04/25	112	60 - 140	101	60 - 140	<10	ug/L	NC	30		
5493500	Methyl Isobutyl Ketone	2018/04/25	100	70 - 130	97	70 - 130	<5.0	ug/L	NC	30		
5493500	Methyl t-butyl ether (MTBE)	2018/04/25	97	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5493500	Methylene Chloride(Dichloromethane)	2018/04/25	102	70 - 130	103	70 - 130	<2.0	ug/L	NC	30		
5493500	o-Xylene	2018/04/25	90	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5493500	p+m-Xylene	2018/04/25	89	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5493500	Styrene	2018/04/25	93	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5493500	Tetrachloroethylene	2018/04/25	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
5493500	Toluene	2018/04/25	89	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
5493500	Total Xylenes	2018/04/25					<0.20	ug/L	NC	30		
5493500	trans-1,2-Dichloroethylene	2018/04/25	93	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
5493500	trans-1,3-Dichloropropene	2018/04/25	86	70 - 130	81	70 - 130	<0.40	ug/L	NC	30		
5493500	Trichloroethylene	2018/04/25	94	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5493500	Trichlorofluoromethane (FREON 11)	2018/04/25	98	70 - 130	104	70 - 130	<0.50	ug/L	NC	30		
5493500	Vinyl Chloride	2018/04/25	77	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
5493502	Dissolved Aluminum (Al)	2018/04/20	98	80 - 120	95	80 - 120	<0.0050	mg/L				
5493502	Dissolved Antimony (Sb)	2018/04/20	99	80 - 120	95	80 - 120	<0.00050	mg/L				
5493502	Dissolved Arsenic (As)	2018/04/20	96	80 - 120	92	80 - 120	<0.0010	mg/L				
5493502	Dissolved Barium (Ba)	2018/04/20	96	80 - 120	91	80 - 120	<0.0020	mg/L				

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Maxxam Job #: B888914
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

			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
5493502	Dissolved Beryllium (Be)	2018/04/20	99	80 - 120	93	80 - 120	<0.00050	mg/L				
5493502	Dissolved Boron (B)	2018/04/20	101	80 - 120	93	80 - 120	<0.010	mg/L				
5493502	Dissolved Cadmium (Cd)	2018/04/20	97	80 - 120	93	80 - 120	<0.00010	mg/L				
5493502	Dissolved Calcium (Ca)	2018/04/20	NC	80 - 120	94	80 - 120	<0.20	mg/L				
5493502	Dissolved Chromium (Cr)	2018/04/20	94	80 - 120	90	80 - 120	<0.0050	mg/L				
5493502	Dissolved Cobalt (Co)	2018/04/20	95	80 - 120	93	80 - 120	<0.00050	mg/L				
5493502	Dissolved Copper (Cu)	2018/04/20	103	80 - 120	96	80 - 120	<0.0010	mg/L				
5493502	Dissolved Iron (Fe)	2018/04/20	98	80 - 120	93	80 - 120	<0.10	mg/L				
5493502	Dissolved Lead (Pb)	2018/04/20	94	80 - 120	92	80 - 120	<0.00050	mg/L	NC	20		
5493502	Dissolved Magnesium (Mg)	2018/04/20	NC	80 - 120	97	80 - 120	<0.050	mg/L				
5493502	Dissolved Manganese (Mn)	2018/04/20	96	80 - 120	93	80 - 120	<0.0020	mg/L				
5493502	Dissolved Molybdenum (Mo)	2018/04/20	96	80 - 120	91	80 - 120	<0.00050	mg/L				
5493502	Dissolved Nickel (Ni)	2018/04/20	95	80 - 120	91	80 - 120	<0.0010	mg/L				
5493502	Dissolved Phosphorus (P)	2018/04/20	94	80 - 120	94	80 - 120	<0.10	mg/L				
5493502	Dissolved Potassium (K)	2018/04/20	96	80 - 120	95	80 - 120	<0.20	mg/L				
5493502	Dissolved Selenium (Se)	2018/04/20	99	80 - 120	95	80 - 120	<0.0020	mg/L				
5493502	Dissolved Silicon (Si)	2018/04/20	95	80 - 120	93	80 - 120	<0.050	mg/L				
5493502	Dissolved Silver (Ag)	2018/04/20	73 (1)	80 - 120	92	80 - 120	<0.00010	mg/L				
5493502	Dissolved Sodium (Na)	2018/04/20	97	80 - 120	91	80 - 120	<0.10	mg/L				
5493502	Dissolved Strontium (Sr)	2018/04/20	NC	80 - 120	91	80 - 120	<0.0010	mg/L				
5493502	Dissolved Thallium (Tl)	2018/04/20	95	80 - 120	94	80 - 120	<0.000050	mg/L				
5493502	Dissolved Titanium (Ti)	2018/04/20	92	80 - 120	93	80 - 120	<0.0050	mg/L				
5493502	Dissolved Uranium (U)	2018/04/20	97	80 - 120	92	80 - 120	<0.00010	mg/L				
5493502	Dissolved Vanadium (V)	2018/04/20	95	80 - 120	91	80 - 120	<0.00050	mg/L				
5493502	Dissolved Zinc (Zn)	2018/04/20	94	80 - 120	92	80 - 120	<0.0050	mg/L				
5493502	Dissolved Zirconium (Zr)	2018/04/20	100	80 - 120	95	80 - 120	<0.0010	mg/L				
5493709	Turbidity	2018/04/20			99	85 - 115	<0.1	NTU	5.7	20		
5493711	Alkalinity (Total as CaCO3)	2018/04/21			96	85 - 115	<1.0	mg/L	0.58	20		
5493715	Conductivity	2018/04/21			99	85 - 115	<1.0	umho/cm	0.28	25		
5493717	Fluoride (F-)	2018/04/21	101	80 - 120	101	80 - 120	<0.10	mg/L	0.45	20		

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Maxxam Job #: B888914
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

			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
5493718	pH	2018/04/21			102	98 - 103			0.34	N/A		
5493992	Nitrate (N)	2018/04/23	98	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
5493992	Nitrite (N)	2018/04/23	97	80 - 120	98	80 - 120	<0.010	mg/L	NC	20		
5494063	Aroclor 1242	2018/04/20					<0.05	ug/L				
5494063	Aroclor 1248	2018/04/20					<0.05	ug/L				
5494063	Aroclor 1254	2018/04/20					<0.05	ug/L				
5494063	Aroclor 1260	2018/04/20	103	60 - 130	110	60 - 130	<0.05	ug/L				
5494063	Total PCB	2018/04/20	103	60 - 130	110	60 - 130	<0.05	ug/L	NC	40		
5494131	Total Suspended Solids	2018/04/25					<10	mg/L	NC	25	100	85 - 115
5494138	Total Dissolved Solids	2018/04/25					<10	mg/L	2.4	25	100	90 - 110
5494214	Dissolved Chloride (Cl)	2018/04/23	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.63	20		
5494218	Dissolved Sulphate (SO4)	2018/04/23	NC	75 - 125	105	80 - 120	<1.0	mg/L	1.2	20		
5494221	Orthophosphate (P)	2018/04/22	119	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
5494633	Dissolved Organic Carbon	2018/04/20	98	80 - 120	101	80 - 120	<0.50	mg/L	2.9	20		
5494952	Chromium (VI)	2018/04/25	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
5496361	Mercury (Hg)	2018/04/23	102	75 - 125	102	80 - 120	<0.1	ug/L	NC	20		
5496427	WAD Cyanide (Free)	2018/04/23	93	80 - 120	95	80 - 120	<1	ug/L	NC	20		
5496867	Total Organic Carbon (TOC)	2018/04/24	94	80 - 120	95	80 - 120	<0.50	mg/L	0.86	20		
5497979	F2 (C10-C16 Hydrocarbons)	2018/04/25	91	50 - 130	97	60 - 130	<100	ug/L	NC	30		
5497979	F3 (C16-C34 Hydrocarbons)	2018/04/25	95	50 - 130	105	60 - 130	<200	ug/L	NC	30		
5497979	F4 (C34-C50 Hydrocarbons)	2018/04/25	89	50 - 130	97	60 - 130	<200	ug/L	NC	30		
5498300	Total Ammonia-N	2018/04/25	102	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		

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Maxxam Job #: B888914
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

			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
5500583	Acidity	2018/04/25	91	80 - 120	102	80 - 120	<5.0	mg/L	2.7	25		

N/A = Not Applicable

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

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

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

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

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

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

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

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

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

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Maxxam Job #: B888914
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - MONITORING WEL
Sampler Initials: RD

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

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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19-Apr-18 08:30
Deepthi Shaji
B888914

GID ENV-1382

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

			Bottle Types																										
			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	WG-1609007 64-20180418-RD005	TS																											
2	WG-1609007 64-20180418-RD006	TS																											
3	WG-1609007 64-20180418-RD007	TS																											
4	WG-1609007 64-20180418-RD008	TS																											
5																													
6																													
7																													
8																													
9																													
10																													

Comments: EXCEPT: DISM, HGHC, CRVI

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) [illegible]

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IMMEDIATE TAT

STANTEC CHAIN OF CUSTODY RECORD

INVOICE INFORMATION:

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

REPORT INFORMATION(if differs from invoice):

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

PROJECT INFORMATION:

Quotation #: B48218
Task #: 200.500
Project #: 160900764
Profit Centre: 1609
Site #: Clarington TS - Monitoring Wel
Sampled By: RD

Laboratory Use Only:

Maxxam Job #:
Bottle Order #: 657876
COC #: C#657876-01-01
Project Manager: Deepthi Shaji

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

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

Other Regulations: [ ] CCME [ ] Reg 558. [ ] MISA [ ] PWQO [ ] Other ___ [ ] Sanitary Sewer Bylaw [ ] Storm Sewer Bylaw Municipality ___

Special Instructions

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(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 #)

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals, Hg, Cr VI	Acidity	Cr (VI) & Free CN	Fluoride & Turbidity	Mercury & TOC	TDS & TSS	RCAp - Comprehensive (Field Filter)	Reg 153 PCBs	Reg153 VOCs and F1-F4	SVOCs	Lab Filtered SVOCs	# of Bottles	Comments
1		WG-160900764-201804 13-RD 05	Apr 13/18	1150	GW		X	X	X	X	X	X	X	X	X		18	Analyte as per quote
2		WG-160900764-201804 13-RD 05A		1150	GW											X	2	
3		13-RD 06		1018			X	X	X	X	X	X	X	X	X		18	
4		13-RD 06A		1018												X	2	
5		13-RD 07		1415			X	X	X	X	X	X	X	X	X		18	
6		13-RD 07A		1415												X	2	
7		13-RD 03		1415			X	X	X	X	X	X	X	X	X		18	
8		13-RD 03A		1415												X	2	
9																		
10																		

19-Apr-18 08:30
Deepthi Shaji
B888914
GID ENV-1382

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
R Van Dusen	18/04/18	1800	BERNIE DESJARDINS	18/04/19	08:30	
			Bernie Desjardins	18/04/19	18:39	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	1°/1°/1°C	Present	✓	
		Intact	✓	

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

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

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

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

White: Maxxa Yellow: Client

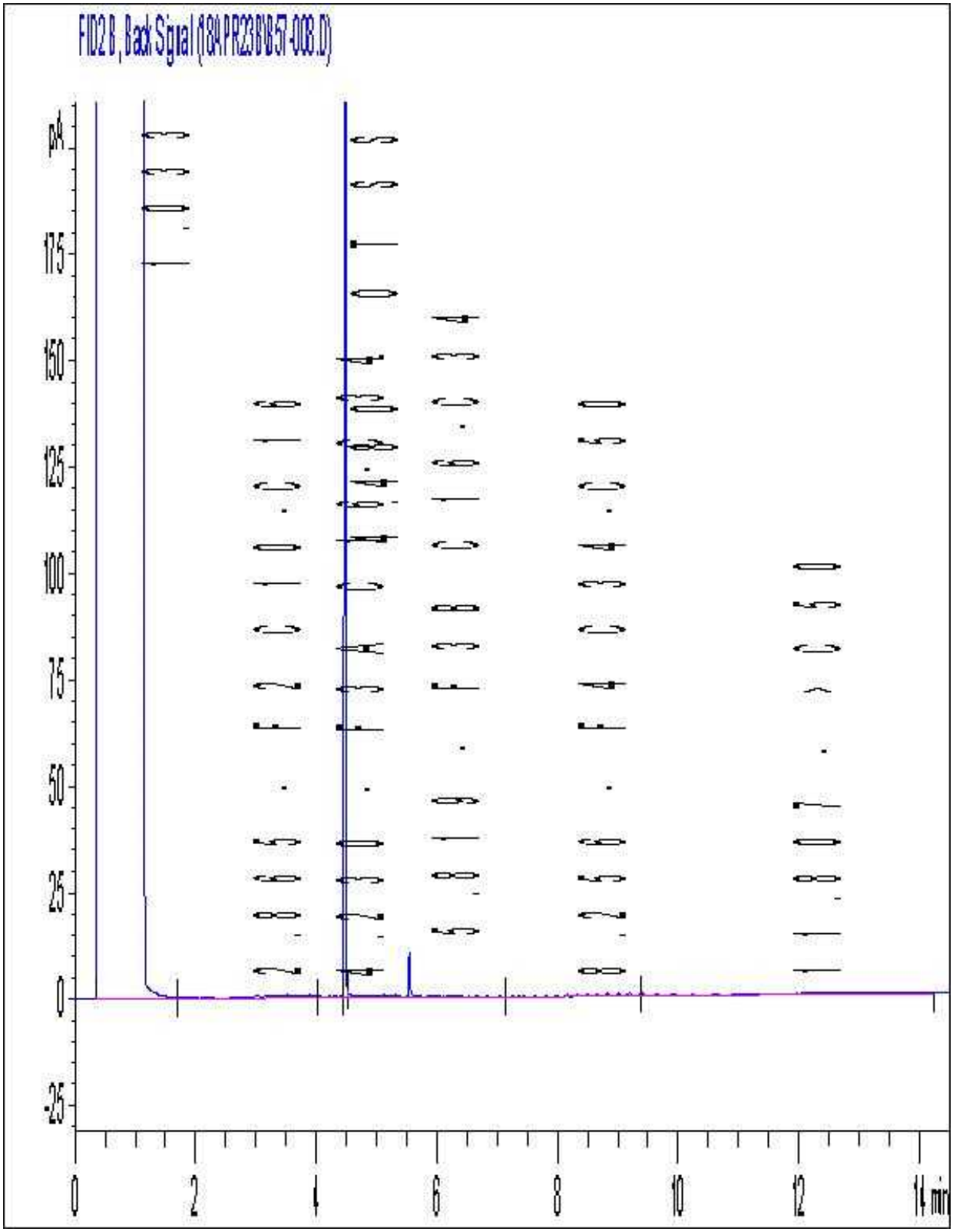
Refuto ACTR 2°/2°/2°C 1°/1°/1°C 1°/1°/1°C

REC'D IN PORT HOPE

Maxxam Job #: B888914
Report Date: 2018/04/26
Maxxam Sample: GMM258

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WEL
Client ID: WG-160900764-20180418-RD05

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

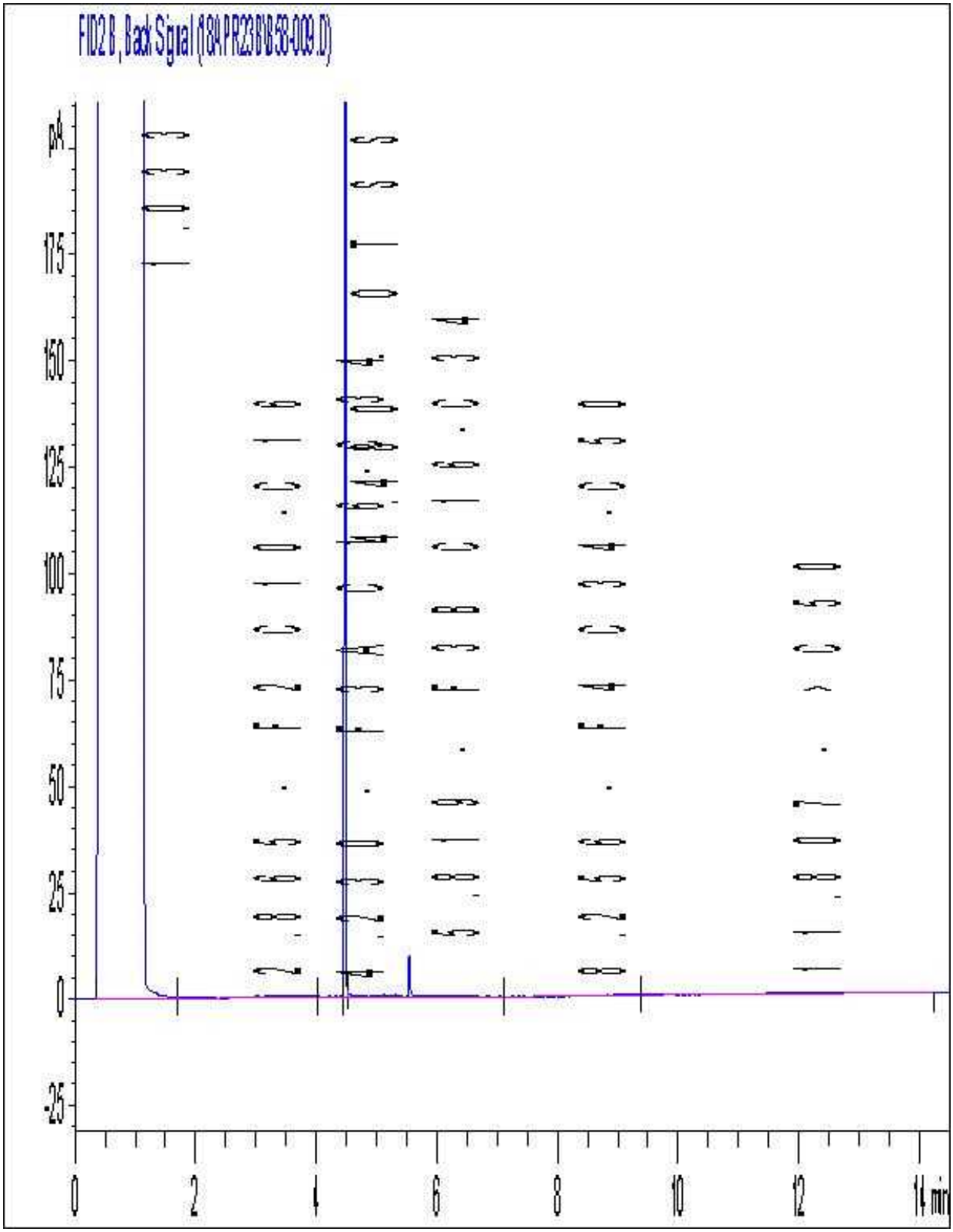


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888914
Report Date: 2018/04/26
Maxxam Sample: GMM260

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WEL
Client ID: WG-160900764-20180418-RD06

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

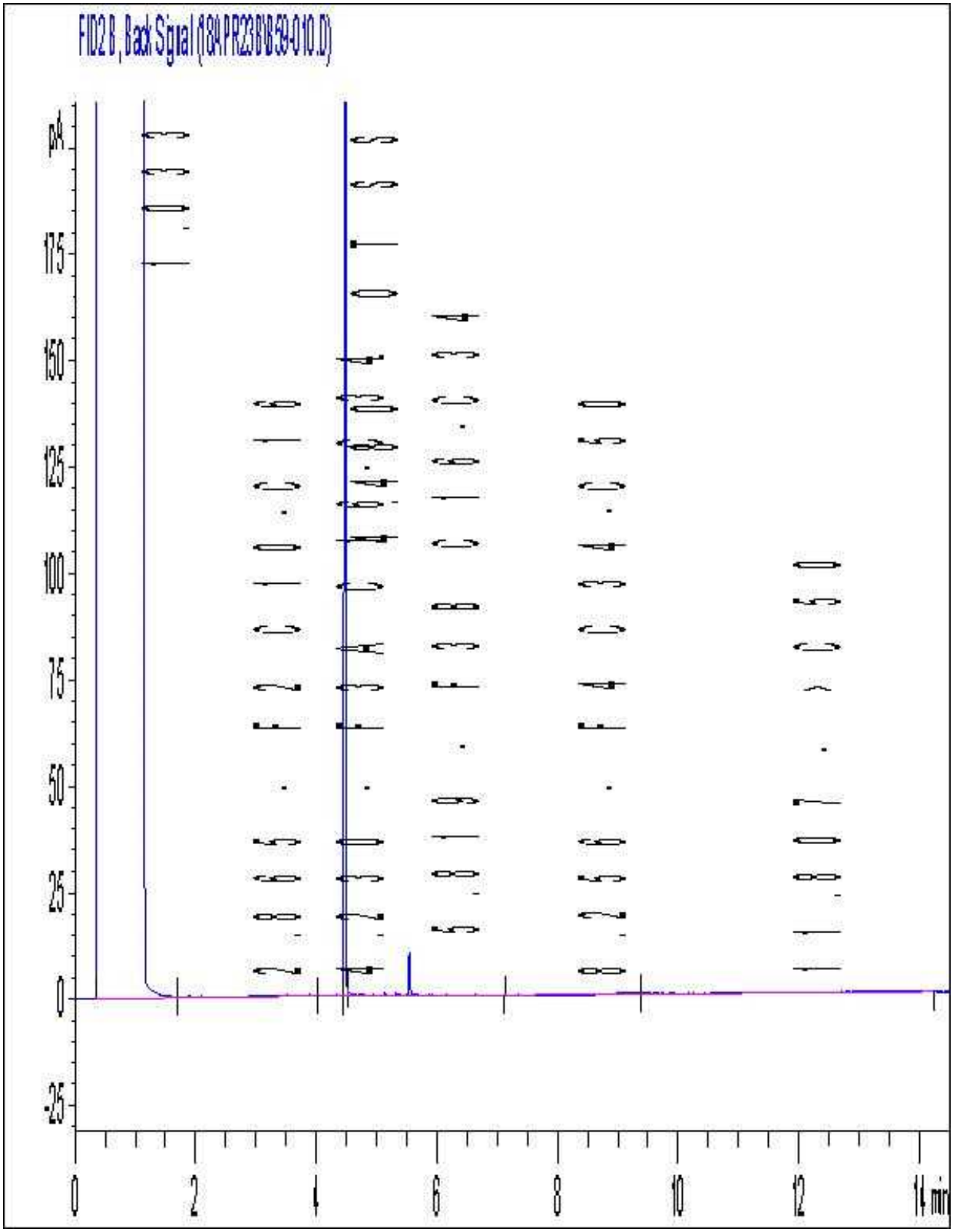


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888914
Report Date: 2018/04/26
Maxxam Sample: GMM260 Lab-Dup

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WEL
Client ID: WG-160900764-20180418-RD06

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

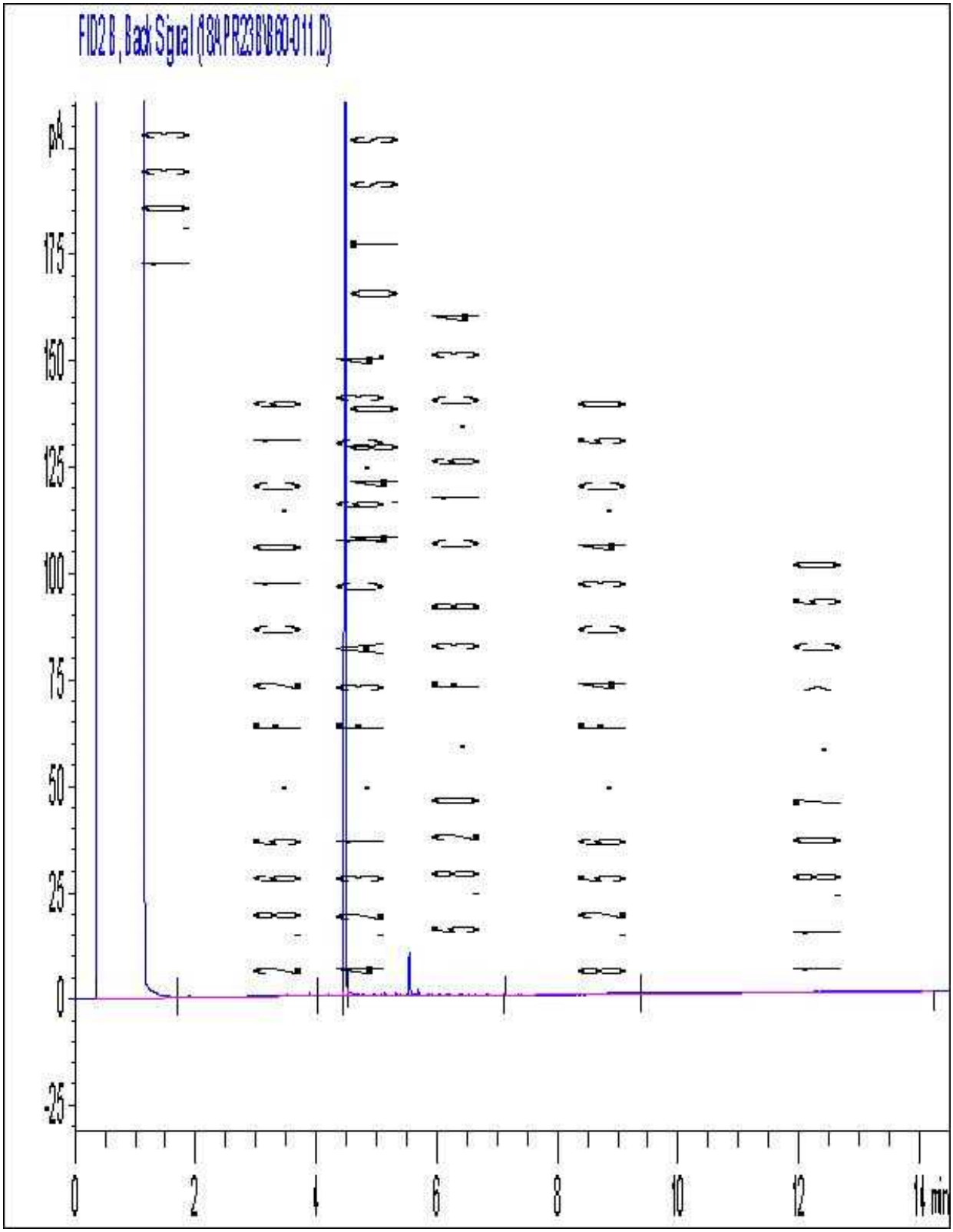


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888914
Report Date: 2018/04/26
Maxxam Sample: GMM262

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WEL
Client ID: WG-160900764-20180418-RD07

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

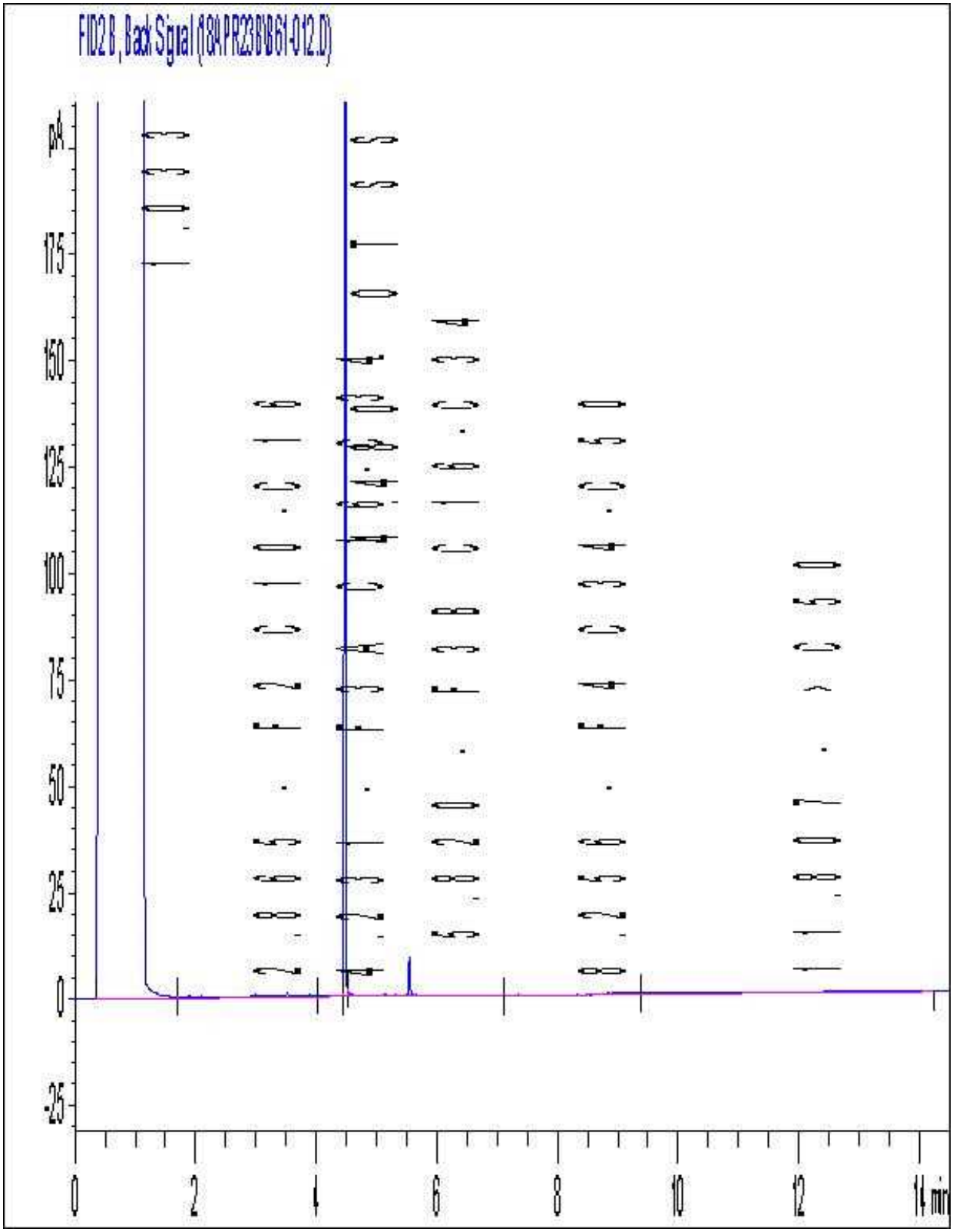


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888914
Report Date: 2018/04/26
Maxxam Sample: GMM264

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - MONITORING WEL
Client ID: WG-160900764-20180418-RD08

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.