Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Your C.O.C. #: 657878-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/04/26
Report #: R5092922
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B888909
Received: 2018/04/19, 08:30

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	4	N/A	2018/04/25	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	4	2018/04/23	2018/04/25	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	2018/04/24		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
Petroleum Hydrocarbons F2-F4 in Water (2)	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	2018/04/25	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	3	2018/04/23	2018/04/23	CAM SOP-00453	EPA 7470A m
Mercury	1	2018/04/24	2018/04/24	CAM SOP-00453	EPA 7470A m
Lab Filtered Metals Analysis by ICP	4	2018/04/24	2018/04/25	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	4	N/A	2018/04/24	CAM SOP-00447	EPA 6020B m
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 (3)	4	N/A	2018/04/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	4	2018/04/21	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	2018/04/25		
Sat. pH and Langelier Index (@ 4C)	4	N/A	2018/04/25		
Sulphate by Automated Colourimetry	4	N/A	2018/04/23	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids	2	2018/04/20	2018/04/25	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2018/04/23	2018/04/24	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2018/04/24	2018/04/24	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (4)	4	N/A	2018/04/24	CAM SOP-00446	SM 23 5310B m

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

Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Your C.O.C. #: 657878-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/04/26
Report #: R5092922
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B888909
Received: 2018/04/19, 08:30

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Phosphorus (Colourimetric)	4	2018/04/23	2018/04/23	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	2	2018/04/20	2018/04/25	CAM SOP-00428	SM 23 2540D m
Total Suspended Solids	2	2018/04/25	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	2018/04/23	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) 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.
(3) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(4) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

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

Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Your C.O.C. #: 657878-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/04/26
Report #: R5092922
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B888909
Received: 2018/04/19, 08:30

Encryption Key

Ronklin Gracian
Project Manager
26 Apr 2018 16:58:20

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.

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

RCAP - SURFACE WATER (WATER)

Maxxam ID		GMM245			GMM245		
Sampling Date		2018/04/18 10:40			2018/04/18 10:40		
COC Number		657878-01-01			657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**RDL**	**QC Batch**	**WS-160900764-20180418-RD 101 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	5492285			
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.4	1.0	5492285			
Hardness (CaCO3)	mg/L	320	1.0	5492286			
Langelier Index (@ 20C)	N/A	0.741		5491831			
Langelier Index (@ 4C)	N/A	0.492		5491832			
Saturation pH (@ 20C)	N/A	7.19		5491831			
Saturation pH (@ 4C)	N/A	7.44		5491832			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	5498313			
Conductivity	umho/cm	720	1.0	5493715			
Total Organic Carbon (TOC)	mg/L	1.7	0.50	5496867			
Orthophosphate (P)	mg/L	<0.010	0.010	5494221			
pH	pH	7.93		5493718			
Total Phosphorus	mg/L	0.019	0.004	5496507	0.016	0.004	5496507
Dissolved Sulphate (SO4)	mg/L	120	1.0	5494218			
Turbidity	NTU	6.7	0.1	5493709			
Alkalinity (Total as CaCO3)	mg/L	180	1.0	5493711			
Dissolved Chloride (Cl)	mg/L	42	1.0	5494214			
Nitrite (N)	mg/L	<0.010	0.010	5493992			
Nitrate (N)	mg/L	2.33	0.10	5493992			
Metals							
Dissolved Calcium (Ca)	mg/L	100	0.05	5499141			
Dissolved Magnesium (Mg)	mg/L	15	0.05	5499141			
Dissolved Potassium (K)	mg/L	5	1	5499141			
Dissolved Sodium (Na)	mg/L	26	0.5	5499141			
Total Aluminum (Al)	mg/L	0.17	0.0050	5497199			
Total Antimony (Sb)	mg/L	<0.00050	0.00050	5497199			
Total Arsenic (As)	mg/L	<0.0010	0.0010	5497199			
Total Barium (Ba)	mg/L	0.038	0.0020	5497199			

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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

RCAP - SURFACE WATER (WATER)

Maxxam ID		GMM245			GMM245		
Sampling Date		2018/04/18 10:40			2018/04/18 10:40		
COC Number		657878-01-01			657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**RDL**	**QC Batch**	**WS-160900764-20180418-RD 101 Lab-Dup**	**RDL**	**QC Batch**
Total Beryllium (Be)	mg/L	<0.00050	0.00050	5497199			
Total Boron (B)	mg/L	0.20	0.010	5497199			
Total Cadmium (Cd)	mg/L	<0.00010	0.00010	5497199			
Total Calcium (Ca)	mg/L	98	0.20	5497199			
Total Chromium (Cr)	mg/L	<0.0050	0.0050	5497199			
Total Cobalt (Co)	mg/L	<0.00050	0.00050	5497199			
Total Copper (Cu)	mg/L	<0.0010	0.0010	5497199			
Total Iron (Fe)	mg/L	0.22	0.10	5497199			
Total Lead (Pb)	mg/L	<0.00050	0.00050	5497199			
Total Magnesium (Mg)	mg/L	16	0.050	5497199			
Total Manganese (Mn)	mg/L	0.016	0.0020	5497199			
Total Molybdenum (Mo)	mg/L	0.00097	0.00050	5497199			
Total Nickel (Ni)	mg/L	0.0012	0.0010	5497199			
Total Phosphorus (P)	mg/L	0.30	0.10	5497199			
Total Potassium (K)	mg/L	4.3	0.20	5497199			
Total Selenium (Se)	mg/L	<0.0020	0.0020	5497199			
Total Silicon (Si)	mg/L	2.2	0.050	5497199			
Total Silver (Ag)	mg/L	<0.00010	0.00010	5497199			
Total Sodium (Na)	mg/L	24	0.10	5497199			
Total Strontium (Sr)	mg/L	1.8	0.0010	5497199			
Total Thallium (Tl)	mg/L	<0.000050	0.000050	5497199			
Total Titanium (Ti)	mg/L	0.011	0.0050	5497199			
Total Uranium (U)	mg/L	0.00079	0.00010	5497199			
Total Vanadium (V)	mg/L	0.00058	0.00050	5497199			
Total Zinc (Zn)	mg/L	0.0055	0.0050	5497199			
Total Zirconium (Zr)	mg/L	<0.0010	0.0010	5497199			

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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

RCAP - SURFACE WATER (WATER)

Maxxam ID		GMM246		GMM247	GMM248		
Sampling Date		2018/04/18 15:45		2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01		657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 102**	**RDL**	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	190	1.0	170	220	1.0	5492285
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.9	1.0	1.6	2.1	1.0	5492285
Hardness (CaCO3)	mg/L	230	1.0	230	280	1.0	5492286
Langelier Index (@ 20C)	N/A	0.792		0.722	0.910		5491831
Langelier Index (@ 4C)	N/A	0.543		0.473	0.662		5491832
Saturation pH (@ 20C)	N/A	7.24		7.28	7.11		5491831
Saturation pH (@ 4C)	N/A	7.48		7.53	7.35		5491832
Inorganics							
Total Ammonia-N	mg/L	0.085	0.050	0.061	0.065	0.050	5498313
Conductivity	umho/cm	460	1.0	500	560	1.0	5493715
Total Organic Carbon (TOC)	mg/L	8.2	0.50	6.8	3.5	0.50	5496867
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	5494221
pH	pH	8.03		8.00	8.02		5493718
Total Phosphorus	mg/L	0.32	0.02	0.27	0.08	0.02	5496507
Dissolved Sulphate (SO4)	mg/L	39 (1)	5.0	35	39	1.0	5494218
Turbidity	NTU	110	0.1	310	24	0.1	5493709
Alkalinity (Total as CaCO3)	mg/L	190	1.0	170	220	1.0	5493711
Dissolved Chloride (Cl)	mg/L	15	1.0	32	21	1.0	5494214
Nitrite (N)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	5493992
Nitrate (N)	mg/L	0.14	0.10	0.16	4.31	0.10	5493992
Metals							
Dissolved Calcium (Ca)	mg/L	79	0.05	81	99	0.05	5499141
Dissolved Magnesium (Mg)	mg/L	6.5	0.05	6.5	7.7	0.05	5499141
Dissolved Potassium (K)	mg/L	3	1	3	2	1	5499141
Dissolved Sodium (Na)	mg/L	9.8	0.5	14	9.7	0.5	5499141
Total Aluminum (Al)	mg/L	7.3	0.0050	4.3	1.3	0.0050	5497199
Total Antimony (Sb)	mg/L	<0.00050	0.00050	<0.00050	<0.00050	0.00050	5497199
Total Arsenic (As)	mg/L	0.0030	0.0010	0.0019	<0.0010	0.0010	5497199
Total Barium (Ba)	mg/L	0.14	0.0020	0.093	0.041	0.0020	5497199

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Detection Limit was raised due to matrix interferences.

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

RCAP - SURFACE WATER (WATER)

Maxxam ID		GMM246		GMM247	GMM248		
Sampling Date		2018/04/18 15:45		2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01		657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 102**	**RDL**	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Total Beryllium (Be)	mg/L	<0.00050	0.00050	<0.00050	<0.00050	0.00050	5497199
Total Boron (B)	mg/L	0.037	0.010	0.032	0.041	0.010	5497199
Total Cadmium (Cd)	mg/L	<0.00010	0.00010	<0.00010	<0.00010	0.00010	5497199
Total Calcium (Ca)	mg/L	200	0.20	150	100	0.20	5497199
Total Chromium (Cr)	mg/L	0.013	0.0050	0.0078	<0.0050	0.0050	5497199
Total Cobalt (Co)	mg/L	0.0039	0.00050	0.0024	0.00073	0.00050	5497199
Total Copper (Cu)	mg/L	0.0094	0.0010	0.0059	0.0021	0.0010	5497199
Total Iron (Fe)	mg/L	8.7	0.10	5.2	1.7	0.10	5497199
Total Lead (Pb)	mg/L	0.0083	0.00050	0.0050	0.0014	0.00050	5497199
Total Magnesium (Mg)	mg/L	12	0.050	9.3	8.0	0.050	5497199
Total Manganese (Mn)	mg/L	0.28	0.0020	0.18	0.082	0.0020	5497199
Total Molybdenum (Mo)	mg/L	0.00091	0.00050	0.00092	<0.00050	0.00050	5497199
Total Nickel (Ni)	mg/L	0.0094	0.0010	0.0056	0.0017	0.0010	5497199
Total Phosphorus (P)	mg/L	0.30	0.10	0.21	0.11	0.10	5497199
Total Potassium (K)	mg/L	4.5	0.20	3.4	2.0	0.20	5497199
Total Selenium (Se)	mg/L	<0.0020	0.0020	<0.0020	<0.0020	0.0020	5497199
Total Silicon (Si)	mg/L	15	0.050	9.0	4.2	0.050	5497199
Total Silver (Ag)	mg/L	<0.00010	0.00010	<0.00010	<0.00010	0.00010	5497199
Total Sodium (Na)	mg/L	9.9	0.10	15	8.7	0.10	5497199
Total Strontium (Sr)	mg/L	0.53	0.0010	0.44	0.48	0.0010	5497199
Total Thallium (Tl)	mg/L	0.00012	0.000050	0.000068	<0.000050	0.000050	5497199
Total Titanium (Ti)	mg/L	0.31	0.0050	0.19	0.057	0.0050	5497199
Total Uranium (U)	mg/L	0.00084	0.00010	0.00072	0.00059	0.00010	5497199
Total Vanadium (V)	mg/L	0.012	0.00050	0.0076	0.0026	0.00050	5497199
Total Zinc (Zn)	mg/L	0.060	0.0050	0.037	0.011	0.0050	5497199
Total Zirconium (Zr)	mg/L	0.0011	0.0010	<0.0010	<0.0010	0.0010	5497199

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

RCAP - SURFACE WATER (WATER)

Maxxam ID		GMM248		
Sampling Date		2018/04/18 16:34		
COC Number		657878-01-01		
	UNITS	**WS-160900764-20180418-RD 104 Lab-Dup**	**RDL**	**QC Batch**
Inorganics				
Total Organic Carbon (TOC)	mg/L	3.5	0.50	5496867

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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

RESULTS OF ANALYSES OF WATER

Maxxam ID		GMM245		GMM246		GMM247		
Sampling Date		2018/04/18 10:40		2018/04/18 15:45		2018/04/18 15:45		
COC Number		657878-01-01		657878-01-01		657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**QC Batch**	**WS-160900764-20180418-RD 102**	**QC Batch**	**WS-160900764-20180418-RD 103**	**RDL**	**QC Batch**
Inorganics								
Acidity	mg/L	<5.0	5500182	5.0	5500583	<5.0	5.0	5500583
Total Dissolved Solids	mg/L	425	5497155	300	5494138	330	10	5497181
Fluoride (F-)	mg/L	0.33	5493717	0.10	5493717	0.10	0.10	5493717
Total Suspended Solids	mg/L	<10	5497144	340	5494131	170	10	5500060
WAD Cyanide (Free)	ug/L	<1	5496427	<1	5496427	<1	1	5496427

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		GMM248		
Sampling Date		2018/04/18 16:34		
COC Number		657878-01-01		
	UNITS	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Inorganics				
Acidity	mg/L	7.0	5.0	5500583
Total Dissolved Solids	mg/L	370	10	5499592
Fluoride (F-)	mg/L	0.11	0.10	5493717
Total Suspended Solids	mg/L	120	10	5500060
WAD Cyanide (Free)	ug/L	<1	1	5496427

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		GMM245	GMM246		GMM247		
Sampling Date		2018/04/18 10:40	2018/04/18 15:45		2018/04/18 15:45		
COC Number		657878-01-01	657878-01-01		657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**WS-160900764-20180418-RD 102**	**QC Batch**	**WS-160900764-20180418-RD 103**	**RDL**	**QC Batch**
Metals							
Chromium (VI)	ug/L	<0.50	<0.50	5494952	<0.50	0.50	5494952
Mercury (Hg)	ug/L	<0.1	<0.1	5496361	<0.1	0.1	5497806

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		GMM248		
Sampling Date		2018/04/18 16:34		
COC Number		657878-01-01		
	UNITS	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Metals				
Chromium (VI)	ug/L	<0.50	0.50	5494952
Mercury (Hg)	ug/L	<0.1	0.1	5496361

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

O.REG 153 PCBS (WATER)

Maxxam ID		GMM245	GMM246	GMM247	GMM248		
Sampling Date		2018/04/18 10:40	2018/04/18 15:45	2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01	657878-01-01	657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**WS-160900764-20180418-RD 102**	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
PCBs							
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5495478
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5495478
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5495478
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5495478
Total PCB	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5495478
Surrogate Recovery (%)							
Decachlorobiphenyl	%	109	107	108	115		5495478

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

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

Maxxam ID		GMM245	GMM246			GMM246		
Sampling Date		2018/04/18 10:40	2018/04/18 15:45			2018/04/18 15:45		
COC Number		657878-01-01	657878-01-01			657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**WS-160900764-20180418-RD 102**	**RDL**	**QC Batch**	**WS-160900764-20180418-RD 102 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	5492587			
Benzene	ug/L	<0.20	<0.20	0.20	5492587			
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5492587			
Bromoform	ug/L	<1.0	<1.0	1.0	5492587			
Bromomethane	ug/L	<0.50	<0.50	0.50	5492587			
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5492587			
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5492587			
Chloroform	ug/L	<0.20	<0.20	0.20	5492587			
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5492587			
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5492587			
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5492587			
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5492587			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5492587			
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5492587			
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5492587			
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5492587			
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5492587			
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5492587			
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5492587			
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5492587			
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5492587			
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5492587			
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5492587			
Hexane	ug/L	<1.0	<1.0	1.0	5492587			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5492587			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5492587			
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5492587			

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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

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

Maxxam ID		GMM245	GMM246			GMM246		
Sampling Date		2018/04/18 10:40	2018/04/18 15:45			2018/04/18 15:45		
COC Number		657878-01-01	657878-01-01			657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**WS-160900764-20180418-RD 102**	**RDL**	**QC Batch**	**WS-160900764-20180418-RD 102 Lab-Dup**	**RDL**	**QC Batch**
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5492587			
Styrene	ug/L	<0.50	<0.50	0.50	5492587			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5492587			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5492587			
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5492587			
Toluene	ug/L	<0.20	<0.20	0.20	5492587			
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5492587			
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5492587			
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5492587			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5492587			
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5492587			
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5492587			
o-Xylene	ug/L	<0.20	<0.20	0.20	5492587			
Total Xylenes	ug/L	<0.20	<0.20	0.20	5492587			
F1 (C6-C10)	ug/L	<25	<25	25	5492587			
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5492587			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5498241	<100	100	5498241
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5498241	<200	200	5498241
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5498241	<200	200	5498241
Reached Baseline at C50	ug/L	Yes	Yes		5498241	Yes		5498241
Surrogate Recovery (%)								
o-Terphenyl	%	101	101		5498241	99		5498241
4-Bromofluorobenzene	%	96	96		5492587			
D4-1,2-Dichloroethane	%	103	106		5492587			
D8-Toluene	%	99	98		5492587			

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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

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

Maxxam ID		GMM247	GMM248		
Sampling Date		2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**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	5492587
Benzene	ug/L	<0.20	<0.20	0.20	5492587
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5492587
Bromoform	ug/L	<1.0	<1.0	1.0	5492587
Bromomethane	ug/L	<0.50	<0.50	0.50	5492587
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5492587
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5492587
Chloroform	ug/L	<0.20	<0.20	0.20	5492587
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5492587
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5492587
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5492587
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5492587
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5492587
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5492587
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5492587
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5492587
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5492587
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5492587
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5492587
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5492587
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5492587
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5492587
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5492587
Hexane	ug/L	<1.0	<1.0	1.0	5492587
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5492587
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5492587
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5492587

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

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

Maxxam ID		GMM247	GMM248		
Sampling Date		2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5492587
Styrene	ug/L	<0.50	<0.50	0.50	5492587
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5492587
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5492587
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5492587
Toluene	ug/L	<0.20	<0.20	0.20	5492587
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5492587
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5492587
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5492587
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5492587
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5492587
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5492587
o-Xylene	ug/L	<0.20	<0.20	0.20	5492587
Total Xylenes	ug/L	<0.20	<0.20	0.20	5492587
F1 (C6-C10)	ug/L	<25	<25	25	5492587
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5492587
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5498241
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5498241
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5498241
Reached Baseline at C50	ug/L	Yes	Yes		5498241
Surrogate Recovery (%)					
o-Terphenyl	%	100	101		5498241
4-Bromofluorobenzene	%	95	95		5492587
D4-1,2-Dichloroethane	%	104	104		5492587
D8-Toluene	%	97	98		5492587

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM245	GMM246	GMM247	GMM248		
Sampling Date		2018/04/18 10:40	2018/04/18 15:45	2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01	657878-01-01	657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**WS-160900764-20180418-RD 102**	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
1-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
2,4-Dichlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
2,4-Dimethylphenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5497891
2,4-Dinitrophenol	ug/L	<2	<2	<2	<2	2	5497891
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5497891
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	<0.3	<0.3	0.3	5497891
2-Chlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
2-Methylnaphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5497891
Acenaphthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
Acenaphthylene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
Anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5497891
Benzo(a)anthracene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5497891
Benzo(a)pyrene	ug/L	<0.01	0.03	0.04	<0.01	0.01	5497891
Benzo(b/j)fluoranthene	ug/L	<0.05	0.06	0.07	<0.05	0.05	5497891
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5497891
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5497891
Biphenyl	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5497891
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5497891
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	<1	<1	1	5497891
Chrysene	ug/L	<0.05	<0.05	<0.05	<0.05	0.05	5497891
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Diethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Dimethyl phthalate	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Fluoranthene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
Fluorene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		GMM245	GMM246	GMM247	GMM248		
Sampling Date		2018/04/18 10:40	2018/04/18 15:45	2018/04/18 15:45	2018/04/18 16:34		
COC Number		657878-01-01	657878-01-01	657878-01-01	657878-01-01		
	UNITS	**WS-160900764-20180418-RD 101**	**WS-160900764-20180418-RD 102**	**WS-160900764-20180418-RD 103**	**WS-160900764-20180418-RD 104**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Naphthalene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	5497891
p-Chloroaniline	ug/L	<1	<1	<1	<1	1	5497891
Pentachlorophenol	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Phenanthrene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	5497891
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	5497891
Pyrene	ug/L	<0.05	0.05	0.06	<0.05	0.05	5497891
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	<0.28	<0.28	0.28	5491470
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	65	31 (1)	58	74		5497891
2-Fluorobiphenyl	%	72	73	73	64		5497891
D14-Terphenyl (FS)	%	104	102	103	102		5497891
D5-Nitrobenzene	%	74	75	77	66		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.

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

TEST SUMMARY

Maxxam ID: GMM245
Sample ID: WS-160900764-20180418-RD 101
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	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/23	2018/04/25	Milijana Avramovic
Acidity (CaCO3) in water	MT	5500182	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	2018/04/24	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
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5498241	2018/04/24	2018/04/25	Zhiyue (Frank) Zhu
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/25	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5499141	2018/04/24	2018/04/25	Suban Kanapathippllai
Total Metals Analysis by ICPMS	ICP/MS	5497199	N/A	2018/04/24	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5498313	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	5495478	2018/04/21	2018/04/21	Svitlana Shaula
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	2018/04/25	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/25	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids	BAL	5497155	2018/04/20	2018/04/25	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	5496507	2018/04/23	2018/04/23	Amanpreet Sappal
Total Suspended Solids	BAL	5497144	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	5492587	N/A	2018/04/23	Xueming Jiang

Maxxam ID: GMM245 Dup
Sample ID: WS-160900764-20180418-RD 101
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	LACH/P	5496507	2018/04/23	2018/04/23	Amanpreet Sappal

Maxxam ID: GMM246
Sample ID: WS-160900764-20180418-RD 102
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	2018/04/25	Automated Statchk

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

TEST SUMMARY

Maxxam ID: GMM246
Sample ID: WS-160900764-20180418-RD 102
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	5497891	2018/04/23	2018/04/25	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	2018/04/24	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
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5498241	2018/04/24	2018/04/25	Zhiyue (Frank) Zhu
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/25	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5499141	2018/04/24	2018/04/25	Suban Kanapathippllai
Total Metals Analysis by ICPMS	ICP/MS	5497199	N/A	2018/04/24	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5498313	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	5495478	2018/04/21	2018/04/21	Svitlana Shaula
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	2018/04/25	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/25	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
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 Phosphorus (Colourimetric)	LACH/P	5496507	2018/04/23	2018/04/23	Amanpreet Sappal
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	5492587	N/A	2018/04/23	Xueming Jiang

Maxxam ID: GMM246 Dup
Sample ID: WS-160900764-20180418-RD 102
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	5498241	2018/04/24	2018/04/25	Zhiyue (Frank) Zhu

Maxxam ID: GMM247
Sample ID: WS-160900764-20180418-RD 103
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	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/23	2018/04/25	Milijana Avramovic

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

TEST SUMMARY

Maxxam ID: GMM247
Sample ID: WS-160900764-20180418-RD 103
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
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	2018/04/24	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
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5498241	2018/04/24	2018/04/25	Zhiyue (Frank) Zhu
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/25	Automated Statchk
Mercury	CV/AA	5497806	2018/04/24	2018/04/24	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5499141	2018/04/24	2018/04/25	Suban Kanapathippllai
Total Metals Analysis by ICPMS	ICP/MS	5497199	N/A	2018/04/24	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5498313	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	5495478	2018/04/21	2018/04/21	Svitlana Shaula
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	2018/04/25	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/25	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids	BAL	5497181	2018/04/23	2018/04/24	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	5496507	2018/04/23	2018/04/23	Amanpreet Sappal
Total Suspended Solids	BAL	5500060	2018/04/25	2018/04/25	Fang Wang
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5492587	N/A	2018/04/23	Xueming Jiang

Maxxam ID: GMM248
Sample ID: WS-160900764-20180418-RD 104
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	2018/04/25	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5497891	2018/04/23	2018/04/25	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	2018/04/24	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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

TEST SUMMARY

Maxxam ID: GMM248
Sample ID: WS-160900764-20180418-RD 104
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	5498241	2018/04/24	2018/04/25	Zhiyue (Frank) Zhu
Fluoride	ISE	5493717	2018/04/20	2018/04/21	Yogesh Patel
Hardness (calculated as CaCO3)		5492286	N/A	2018/04/25	Automated Statchk
Mercury	CV/AA	5496361	2018/04/23	2018/04/23	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5499141	2018/04/24	2018/04/25	Suban Kanapathippllai
Total Metals Analysis by ICPMS	ICP/MS	5497199	N/A	2018/04/24	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5498313	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	5495478	2018/04/21	2018/04/21	Svitlana Shaula
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	2018/04/25	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5491832	N/A	2018/04/25	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5494218	N/A	2018/04/23	Deonarine Ramnarine
Total Dissolved Solids	BAL	5499592	2018/04/24	2018/04/24	Shivani Desai
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov
Total Phosphorus (Colourimetric)	LACH/P	5496507	2018/04/23	2018/04/23	Amanpreet Sappal
Total Suspended Solids	BAL	5500060	2018/04/25	2018/04/25	Fang Wang
Turbidity	AT	5493709	N/A	2018/04/20	Tahir Anwar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5492587	N/A	2018/04/23	Xueming Jiang

Maxxam ID: GMM248 Dup
Sample ID: WS-160900764-20180418-RD 104
Matrix: Water

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

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	5496867	N/A	2018/04/24	Anastasia Hamanov

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

GENERAL COMMENTS

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

Package 1	4.3°C
Package 2	7.0°C
Package 3	5.3°C
Package 4	6.0°C

Results relate only to the items tested.

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B888909
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

			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
5492587	4-Bromofluorobenzene	2018/04/23	100	70 - 130	100	70 - 130	96	%				
5492587	D4-1,2-Dichloroethane	2018/04/23	100	70 - 130	99	70 - 130	99	%				
5492587	D8-Toluene	2018/04/23	101	70 - 130	102	70 - 130	100	%				
5495478	Decachlorobiphenyl	2018/04/21	105	60 - 130	110	60 - 130	111	%				
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	%				
5498241	o-Terphenyl	2018/04/25	106	60 - 130	104	60 - 130	101	%				
5492587	1,1,1,2-Tetrachloroethane	2018/04/23	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5492587	1,1,1-Trichloroethane	2018/04/23	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5492587	1,1,2,2-Tetrachloroethane	2018/04/23	98	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5492587	1,1,2-Trichloroethane	2018/04/23	99	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5492587	1,1-Dichloroethane	2018/04/23	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5492587	1,1-Dichloroethylene	2018/04/23	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5492587	1,2-Dichlorobenzene	2018/04/23	100	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5492587	1,2-Dichloroethane	2018/04/23	100	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5492587	1,2-Dichloropropane	2018/04/23	97	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5492587	1,3-Dichlorobenzene	2018/04/23	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5492587	1,4-Dichlorobenzene	2018/04/23	107	70 - 130	105	70 - 130	<0.50	ug/L	NC	30		
5492587	Acetone (2-Propanone)	2018/04/23	107	60 - 140	94	60 - 140	<10	ug/L	NC	30		
5492587	Benzene	2018/04/23	96	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
5492587	Bromodichloromethane	2018/04/23	97	70 - 130	94	70 - 130	<0.50	ug/L	NC	30		
5492587	Bromoform	2018/04/23	97	70 - 130	96	70 - 130	<1.0	ug/L	NC	30		
5492587	Bromomethane	2018/04/23	96	60 - 140	96	60 - 140	<0.50	ug/L	NC	30		
5492587	Carbon Tetrachloride	2018/04/23	98	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5492587	Chlorobenzene	2018/04/23	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5492587	Chloroform	2018/04/23	NC	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5492587	cis-1,2-Dichloroethylene	2018/04/23	100	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5492587	cis-1,3-Dichloropropene	2018/04/23	96	70 - 130	96	70 - 130	<0.30	ug/L	NC	30		
5492587	Dibromochloromethane	2018/04/23	97	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B888909
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

			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
5492587	Dichlorodifluoromethane (FREON 12)	2018/04/23	99	60 - 140	98	60 - 140	<1.0	ug/L	NC	30		
5492587	Ethylbenzene	2018/04/23	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5492587	Ethylene Dibromide	2018/04/23	99	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5492587	F1 (C6-C10) - BTEX	2018/04/23					<25	ug/L	NC	30		
5492587	F1 (C6-C10)	2018/04/23	92	60 - 140	93	60 - 140	<25	ug/L	NC	30		
5492587	Hexane	2018/04/23	101	70 - 130	100	70 - 130	<1.0	ug/L	NC	30		
5492587	Methyl Ethyl Ketone (2-Butanone)	2018/04/23	108	60 - 140	97	60 - 140	<10	ug/L	NC	30		
5492587	Methyl Isobutyl Ketone	2018/04/23	101	70 - 130	96	70 - 130	<5.0	ug/L	NC	30		
5492587	Methyl t-butyl ether (MTBE)	2018/04/23	99	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5492587	Methylene Chloride(Dichloromethane)	2018/04/23	101	70 - 130	96	70 - 130	<2.0	ug/L	NC	30		
5492587	o-Xylene	2018/04/23	96	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5492587	p+m-Xylene	2018/04/23	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5492587	Styrene	2018/04/23	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30		
5492587	Tetrachloroethylene	2018/04/23	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
5492587	Toluene	2018/04/23	91	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
5492587	Total Xylenes	2018/04/23					<0.20	ug/L	NC	30		
5492587	trans-1,2-Dichloroethylene	2018/04/23	97	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
5492587	trans-1,3-Dichloropropene	2018/04/23	94	70 - 130	97	70 - 130	<0.40	ug/L	NC	30		
5492587	Trichloroethylene	2018/04/23	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5492587	Trichlorofluoromethane (FREON 11)	2018/04/23	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5492587	Vinyl Chloride	2018/04/23	90	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
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		
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		
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

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B888909
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

			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
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		
5494952	Chromium (VI)	2018/04/25	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
5495478	Aroclor 1242	2018/04/21					<0.05	ug/L	NC	30		
5495478	Aroclor 1248	2018/04/21					<0.05	ug/L	NC	30		
5495478	Aroclor 1254	2018/04/21					<0.05	ug/L	NC	30		
5495478	Aroclor 1260	2018/04/21	98	60 - 130	94	60 - 130	<0.05	ug/L	NC	30		
5495478	Total PCB	2018/04/21	98	60 - 130	94	60 - 130	<0.05	ug/L	NC	40		
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		
5496507	Total Phosphorus	2018/04/23	105	80 - 120	101	80 - 120	<0.004	mg/L	16	20	104	80 - 120
5496867	Total Organic Carbon (TOC)	2018/04/24	94	80 - 120	95	80 - 120	<0.50	mg/L	0.86	20		
5497144	Total Suspended Solids	2018/04/25					<10	mg/L	NC	25	97	85 - 115
5497155	Total Dissolved Solids	2018/04/25					<10	mg/L	2.5	25	98	90 - 110
5497181	Total Dissolved Solids	2018/04/24					<10	mg/L	2.4	25	98	90 - 110
5497199	Total Aluminum (Al)	2018/04/24	NC	80 - 120	95	80 - 120	<0.0050	mg/L	1.2	20		
5497199	Total Antimony (Sb)	2018/04/24	103	80 - 120	99	80 - 120	<0.00050	mg/L				
5497199	Total Arsenic (As)	2018/04/24	99	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
5497199	Total Barium (Ba)	2018/04/24	96	80 - 120	92	80 - 120	<0.0020	mg/L				
5497199	Total Beryllium (Be)	2018/04/24	101	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20		
5497199	Total Boron (B)	2018/04/24	94	80 - 120	90	80 - 120	<0.010	mg/L	0.43	20		
5497199	Total Cadmium (Cd)	2018/04/24	102	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
5497199	Total Calcium (Ca)	2018/04/24	NC	80 - 120	93	80 - 120	<0.20	mg/L	0.41	20		
5497199	Total Chromium (Cr)	2018/04/24	93	80 - 120	91	80 - 120	<0.0050	mg/L	NC	20		
5497199	Total Cobalt (Co)	2018/04/24	98	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
5497199	Total Copper (Cu)	2018/04/24	94	80 - 120	91	80 - 120	<0.0010	mg/L	0.87	20		
5497199	Total Iron (Fe)	2018/04/24	99	80 - 120	96	80 - 120	<0.10	mg/L	1.7	20		
5497199	Total Lead (Pb)	2018/04/24	100	80 - 120	97	80 - 120	<0.00050	mg/L	5.5	20		
5497199	Total Magnesium (Mg)	2018/04/24	94	80 - 120	96	80 - 120	<0.050	mg/L	1.0	20		
5497199	Total Manganese (Mn)	2018/04/24	95	80 - 120	93	80 - 120	<0.0020	mg/L	1.7	20		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B888909
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

			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
5497199	Total Molybdenum (Mo)	2018/04/24	97	80 - 120	93	80 - 120	<0.00050	mg/L	1.8	20		
5497199	Total Nickel (Ni)	2018/04/24	96	80 - 120	95	80 - 120	<0.0010	mg/L	1.3	20		
5497199	Total Phosphorus (P)	2018/04/24	96	80 - 120	98	80 - 120	<0.10	mg/L				
5497199	Total Potassium (K)	2018/04/24	97	80 - 120	91	80 - 120	<0.20	mg/L				
5497199	Total Selenium (Se)	2018/04/24	109	80 - 120	109	80 - 120	<0.0020	mg/L	NC	20		
5497199	Total Silicon (Si)	2018/04/24	99	80 - 120	91	80 - 120	<0.050	mg/L				
5497199	Total Silver (Ag)	2018/04/24	98	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20		
5497199	Total Sodium (Na)	2018/04/24	100	80 - 120	93	80 - 120	<0.10	mg/L	1.9	20		
5497199	Total Strontium (Sr)	2018/04/24	96	80 - 120	93	80 - 120	<0.0010	mg/L	0.63	20		
5497199	Total Thallium (Tl)	2018/04/24	100	80 - 120	98	80 - 120	<0.000050	mg/L				
5497199	Total Titanium (Ti)	2018/04/24	97	80 - 120	92	80 - 120	<0.0050	mg/L				
5497199	Total Uranium (U)	2018/04/24	102	80 - 120	97	80 - 120	<0.00010	mg/L				
5497199	Total Vanadium (V)	2018/04/24	94	80 - 120	91	80 - 120	<0.00050	mg/L	1.9	20		
5497199	Total Zinc (Zn)	2018/04/24	105	80 - 120	105	80 - 120	<0.0050	mg/L	3.3	20		
5497199	Total Zirconium (Zr)	2018/04/24	99	80 - 120	95	80 - 120	<0.0010	mg/L				
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		
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		

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

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B888909
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

			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	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		
5498241	F2 (C10-C16 Hydrocarbons)	2018/04/25	99	50 - 130	101	60 - 130	<100	ug/L	NC	30		
5498241	F3 (C16-C34 Hydrocarbons)	2018/04/25	101	50 - 130	105	60 - 130	<200	ug/L	NC	30		
5498241	F4 (C34-C50 Hydrocarbons)	2018/04/25	98	50 - 130	100	60 - 130	<200	ug/L	NC	30		
5498313	Total Ammonia-N	2018/04/25	105	75 - 125	102	80 - 120	<0.050	mg/L	11	20		
5499141	Dissolved Calcium (Ca)	2018/04/25	NC	80 - 120	102	80 - 120	<0.05	mg/L	0.22	25		
5499141	Dissolved Magnesium (Mg)	2018/04/25	98	80 - 120	97	80 - 120	<0.05	mg/L	0.12	25		
5499141	Dissolved Potassium (K)	2018/04/25	110	80 - 120	105	80 - 120	<1	mg/L	0.044	25		
5499141	Dissolved Sodium (Na)	2018/04/25	NC	80 - 120	104	80 - 120	<0.5	mg/L	0.34	25		
5499592	Total Dissolved Solids	2018/04/24					<10	mg/L	0.21	25	100	90 - 110

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

Maxxam Job #: B888909
Report Date: 2018/04/26

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

			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
5500060	Total Suspended Solids	2018/04/25					<10	mg/L	NC	25	96	85 - 115
5500182	Acidity	2018/04/25	96	80 - 120	102	80 - 120	<5.0	mg/L	8.1	25		
5500583	Acidity	2018/04/25	91	80 - 120	102	80 - 120	<5.0	mg/L	2.7	25		

N/A = Not Applicable

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

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

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

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

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

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

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

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

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

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

Maxxam Job #: B888909
Report Date: 2018/04/26

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: KD

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

Gina Thompson, Inorganics General Chemistry Supervisor

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

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

Maxxam
A Bureau Veritas Group Company

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 1	657878-01-01
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 ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

MAXXAM JOB#: B888909

	YES	NO				
CUSTODY SEAL	YES	NO	COOLER ID 1 of 4			
PRESENT	✓		TEMP	2 (1)	1 (2)	0 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID 2 of 4			
PRESENT	✓		TEMP	3 (1)	4 (2)	0 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID 3 of 4			
PRESENT	✓		TEMP	2 (1)	1 (2)	1 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID 4 of 4			
PRESENT	✓		TEMP	2 (1)	1 (2)	0 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

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

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Parbeep	Parbeep K. Purewal	2018/04/19	12:39

Maxxam — A Bureau Veritas Company

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

IMMEDIATE TEST

STANT

19-Apr-18 08:30
Deepthi Shaji
B888909
MAF ENV-943

Page 1 of 1

INVOICE INFORMATION:		REPORT INFORMATION(if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#9197 Stantec Consulting Ltd	Company Name:	#18379 Stantec Consulting Ltd	Quotation #:	B48218
Contact Name:	Accounts Payable	Contact Name:	Report - 160900764	Task #:	200.500
Address:	300 Hagey Blvd Suite 100	Address:		Project #:	160900764
	Waterloo ON N2L 0A4		ON	Profit Centre:	1609
Phone:	(519) 579-4410 x Fax: (519) 579-6733 x	Phone:	Fax:	Site #:	Clarington TS - Surface Water
Email:	accounts.payable.invoices@stantec.com	Email:	aaron.warkentin@stantec.com, jamie.koch@stantec.co	Sampled By:	Ryan Dong

Bottle Order #: 657878

C#657878-01-01

Project Manager: Deepthi Shaji

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

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

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

Special Instructions

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

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

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ (call lab for #)

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Acidity	Cr (VI) & Free CN	Fluoride & Turbidity	Mercury & TOC	TDS & TSS	RCAP - Surface Water(No field filter- Total metals)	Reg 153 PCBs	Reg 153 VOCs & F1-F4	SVOCs		# of Bottles	Comments
1		WS-160900764-201804 13-BD 101	Apr 18/18	1040	SW	Y	X	X	X	X	X	X	X	X	X		17	Analyze as per quote
2		WS-160900764-201804 13-BD 102	↓	1545	SW	Y	X	X	X	X	X	X	X	X	X		17	
3		WS-160900764-201804 13-BD 103		1545	SW	Y	X	X	X	X	X	X	X	X	X		17	
4		WS-160900764-201804 13-BD 104		1634	SW	Y	X	X	X	X	X	X	X	X	X		17	
5		~~WS-160900764-201804~~			~~SW~~													
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	18/04/18	1800	Parseep Parseep E. Parseep	18/04/19 20/04/19	08:30 BW ~~08:30 AM~~ 12:29	

Laboratory Use Only: *Time Sensitive; Temperature (°C) on Recei: 4° | 4° | 5°C

Custody Seal	Yes	No
Present	✓	
Intact	✓	

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

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

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

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

White: Maxxa Yellow: Client

* WRONG COLOR PEN USED BW

7° | 7° | 7°C 5° | 5° | 6°C 6° | 6° | 6°C

Refer to ATR

MW #436109

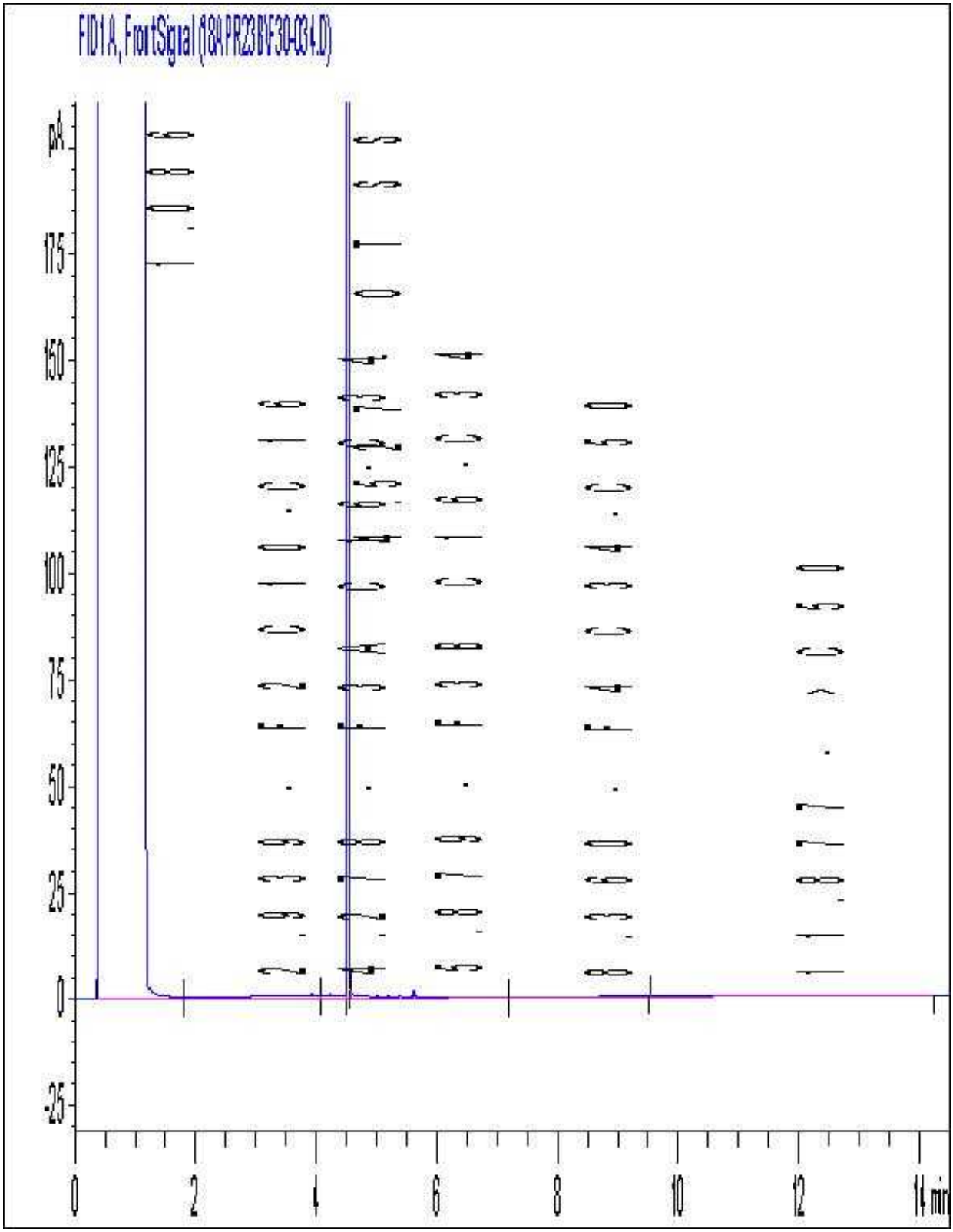
REC'D IN PORT HOPE

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam Job #: B888909
Report Date: 2018/04/26
Maxxam Sample: GMM245

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20180418-RD 101

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

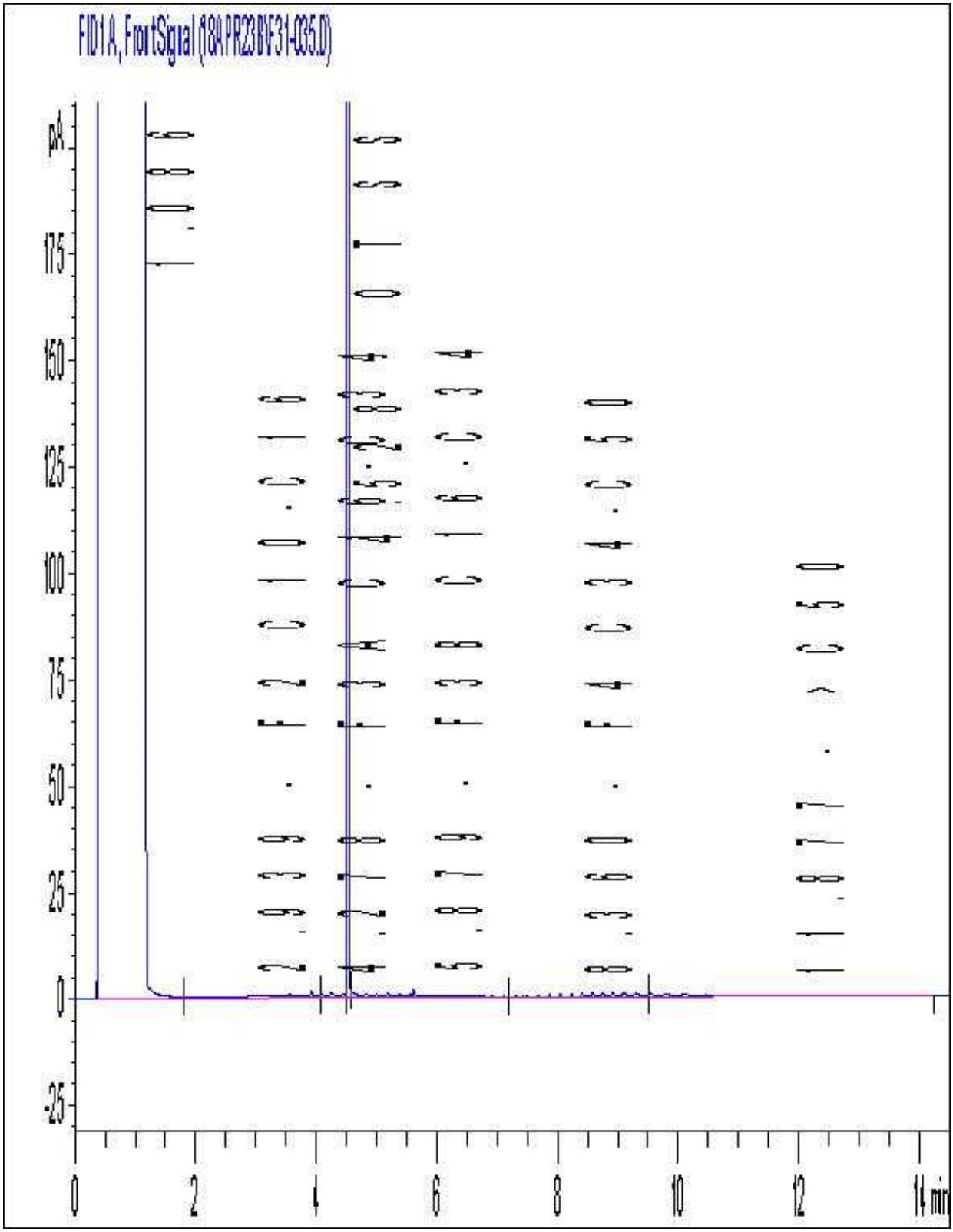


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888909
Report Date: 2018/04/26
Maxxam Sample: GMM246

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20180418-RD 102

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

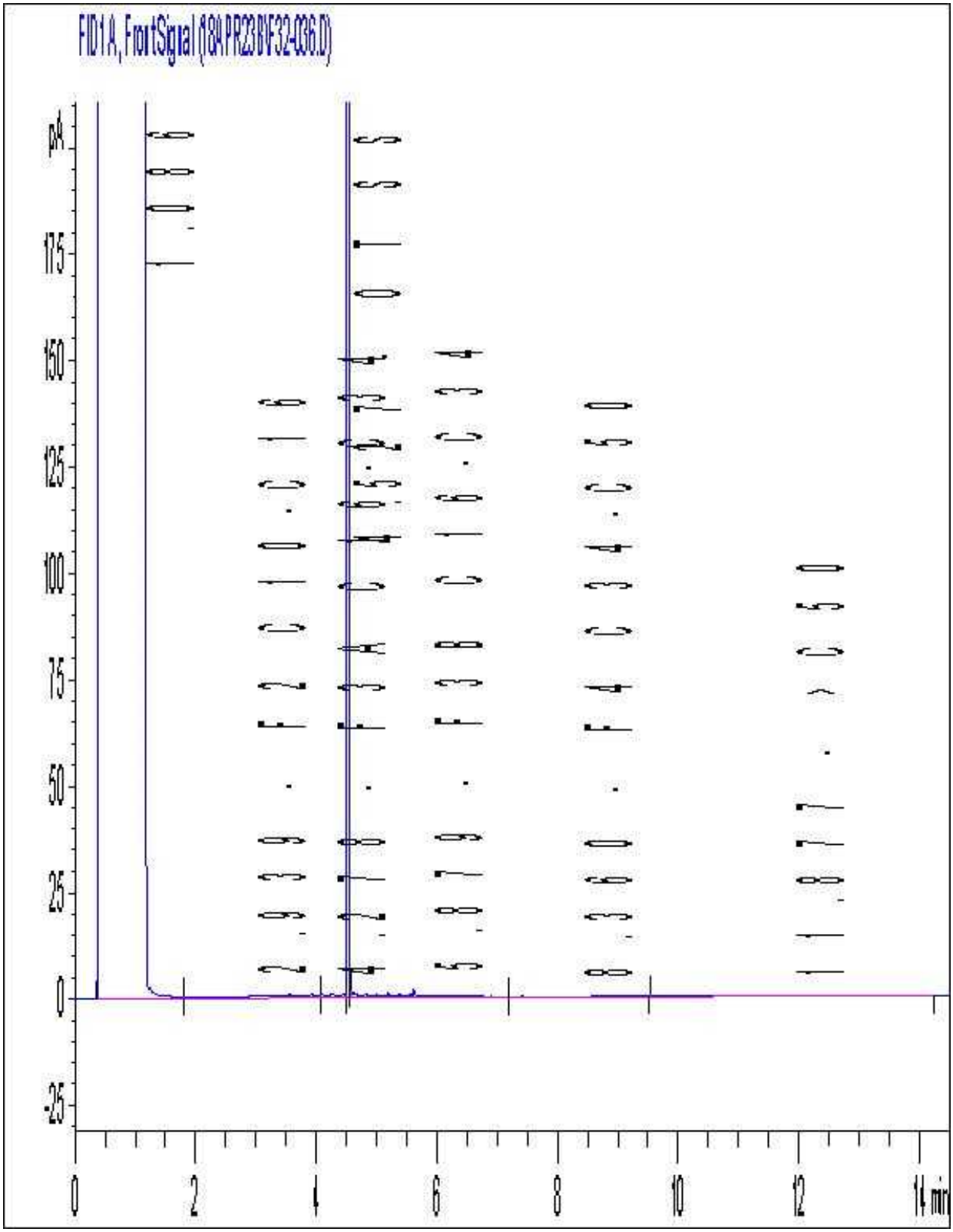


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888909
Report Date: 2018/04/26
Maxxam Sample: GMM246 Lab-Dup

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20180418-RD 102

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

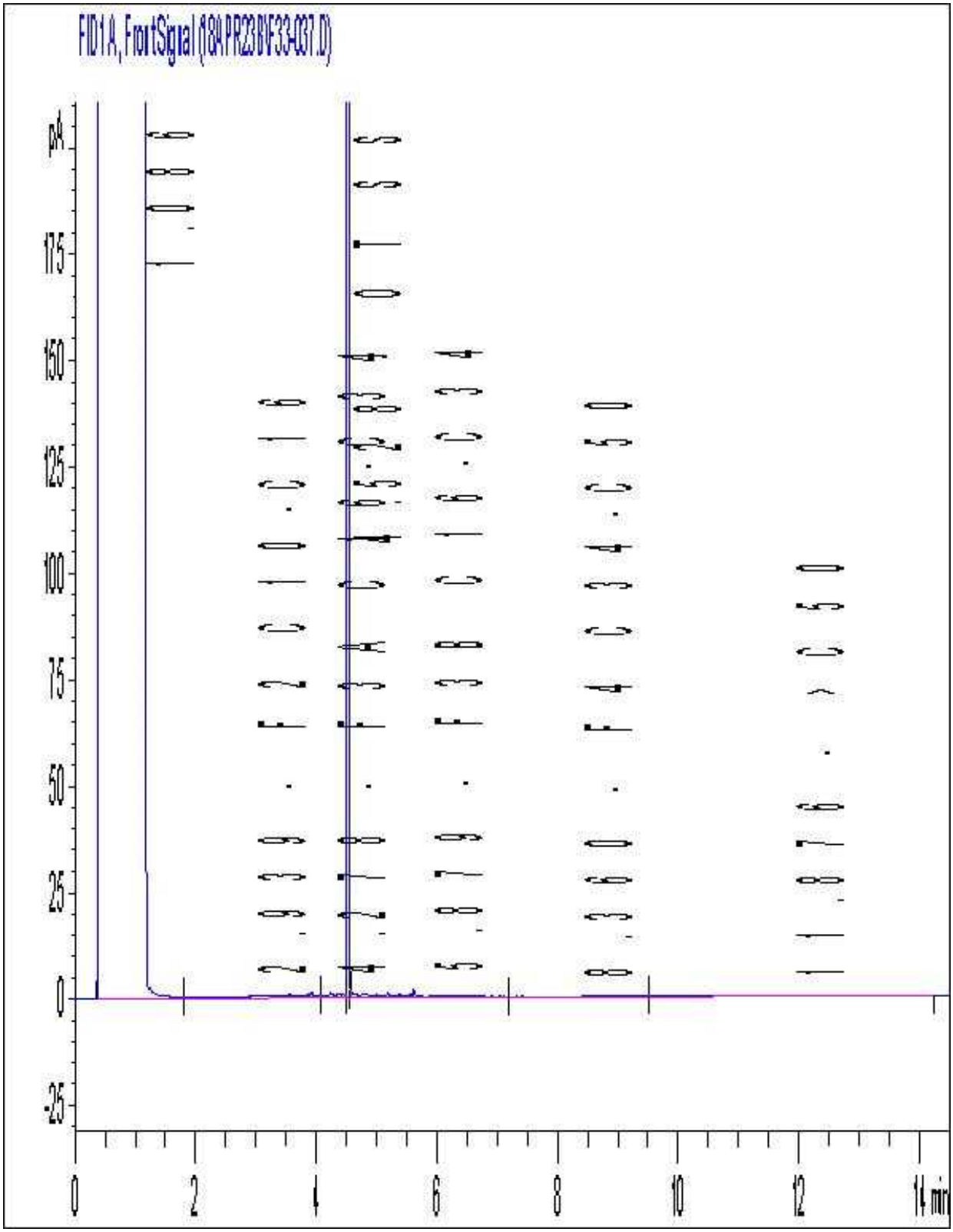


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888909
Report Date: 2018/04/26
Maxxam Sample: GMM247

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20180418-RD 103

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

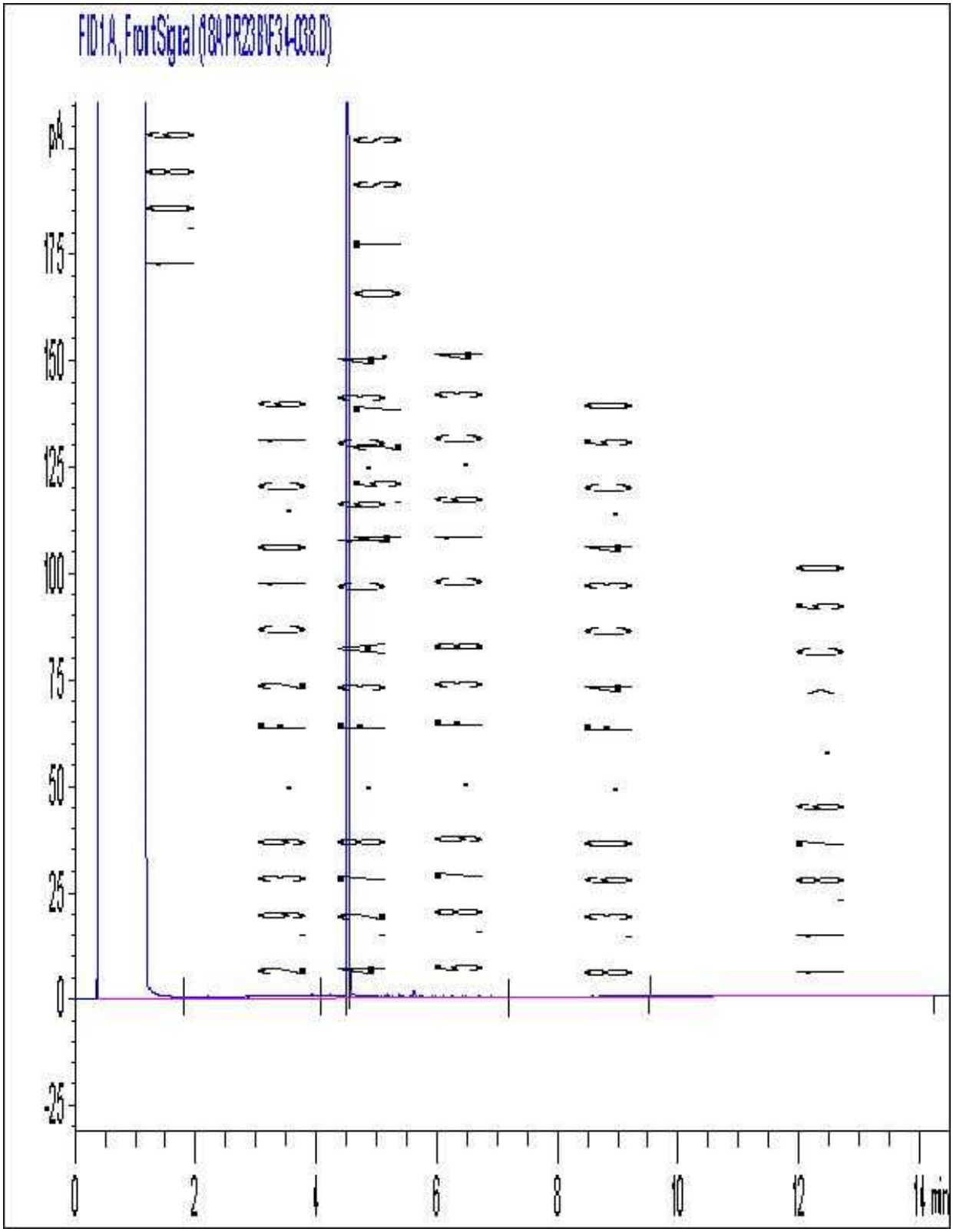


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B888909
Report Date: 2018/04/26
Maxxam Sample: GMM248

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20180418-RD 104

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.