Maxxam
A Bureau Veritas Group Company

Your Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Your C.O.C. #: 686535-01-01

Attention: Report - 160900764

Stantec Consulting Ltd
Clarington
ON
Canada

Report Date: 2018/10/18
Report #: R5446974
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q7982
Received: 2018/10/11, 08:30

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	3	N/A	2018/10/17	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS	3	2018/10/15	2018/10/17	CAM SOP-00301	EPA 8270 m
Acidity (CaCO3) in water (1)	3	N/A	2018/10/17		SM 22 2310
Alkalinity	3	N/A	2018/10/13	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	3	N/A	2018/10/15	CAM SOP-00102	APHA 4500-CO2 D
1,3-Dichloropropene Sum	3	N/A	2018/10/17		EPA 8260C m
Chloride by Automated Colourimetry	3	N/A	2018/10/16	CAM SOP-00463	EPA 325.2 m
Conductivity	3	N/A	2018/10/13	CAM SOP-00414	SM 23 2510 m
Chromium (VI) in Water	3	N/A	2018/10/16	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	3	N/A	2018/10/15	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (2)	3	2018/10/13	2018/10/15	CAM SOP-00316	CCME PHC-CWS m
Fluoride	3	2018/10/12	2018/10/13	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2018/10/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	3	2018/10/16	2018/10/16	CAM SOP-00453	EPA 7470A m
Lab Filtered Metals Analysis by ICP	3	2018/10/13	2018/10/15	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	3	N/A	2018/10/15	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	3	N/A	2018/10/16	CAM SOP-00441	EPA GS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (3)	3	N/A	2018/10/15	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	3	2018/10/13	2018/10/13	CAM SOP-00309	EPA 8082A m
pH	3	N/A	2018/10/13	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	2	N/A	2018/10/15	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2018/10/18	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2018/10/16		
Sat. pH and Langelier Index (@ 20C)	2	N/A	2018/10/17		
Sat. pH and Langelier Index (@ 4C)	1	N/A	2018/10/16		
Sat. pH and Langelier Index (@ 4C)	2	N/A	2018/10/17		
Sulphate by Automated Colourimetry	3	N/A	2018/10/15	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids	1	2018/10/15	2018/10/16	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	2	2018/10/16	2018/10/17	CAM SOP-00428	SM 23 2540C m

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

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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B8Q7982
Received: 2018/10/11, 08:30

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Total Organic Carbon (TOC) (4)	3	N/A	2018/10/15	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	2	2018/10/15	2018/10/15	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric)	1	2018/10/18	2018/10/18	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	3	2018/10/15	2018/10/16	CAM SOP-00428	SM 23 2540D m
Turbidity	3	N/A	2018/10/12	CAM SOP-00417	SM 23 2130 B m
Volatile Organic Compounds and F1 PHCs	1	N/A	2018/10/16	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	2	N/A	2018/10/17	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

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

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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(1) This test was performed by Maxxam Bedford
(2) 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.

Encryption Key

Gemarie Balatico
Project Manager
18 Oct 2018 17:48:04

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: RGracian@maxxam.ca
Phone# (905) 817-5700
==========
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 #: B8Q7982
Report Date: 2018/10/18

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

RCAP - SURFACE WATER (WATER)

Maxxam ID		HZJ522			HZJ522		
Sampling Date		2018/10/10 12:48			2018/10/10 12:48		
COC Number		686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD100 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	280	1.0	5778792			
Carb. Alkalinity (calc. as CaCO3)	mg/L	3.0	1.0	5778792			
Hardness (CaCO3)	mg/L	490	1.0	5778622			
Langelier Index (@ 20C)	N/A	1.23		5777792			
Langelier Index (@ 4C)	N/A	0.983		5777793			
Saturation pH (@ 20C)	N/A	6.83		5777792			
Saturation pH (@ 4C)	N/A	7.07		5777793			
Inorganics							
Total Ammonia-N	mg/L	0.15	0.050	5783974			
Conductivity	umho/cm	930	1.0	5780772			
Total Organic Carbon (TOC)	mg/L	2.9	0.50	5783792	2.9	0.50	5783792
Orthophosphate (P)	mg/L	<0.010	0.010	5780917			
pH	pH	8.06		5780775			
Total Phosphorus	mg/L	0.007	0.004	5783444			
Dissolved Sulphate (SO4)	mg/L	210	1.0	5780913			
Turbidity	NTU	1.0	0.1	5780698			
Alkalinity (Total as CaCO3)	mg/L	280	1.0	5780756			
Dissolved Chloride (Cl-)	mg/L	29	1.0	5780912			
Nitrite (N)	mg/L	<0.010	0.010	5780858			
Nitrate (N)	mg/L	0.33	0.10	5780858			
Metals							
Dissolved Calcium (Ca)	mg/L	160	0.05	5782485			
Dissolved Magnesium (Mg)	mg/L	21	0.05	5782485			
Dissolved Potassium (K)	mg/L	5	1	5782485			
Dissolved Sodium (Na)	mg/L	21	0.5	5782485			
Total Aluminum (Al)	mg/L	0.013	0.0050	5782162			
Total Antimony (Sb)	mg/L	<0.00050	0.00050	5782162			
Total Arsenic (As)	mg/L	<0.0010	0.0010	5782162			
Total Barium (Ba)	mg/L	0.049	0.0020	5782162			
Total Beryllium (Be)	mg/L	<0.00050	0.00050	5782162			

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

RCAP - SURFACE WATER (WATER)

Maxxam ID		HZJ522			HZJ522		
Sampling Date		2018/10/10 12:48			2018/10/10 12:48		
COC Number		686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD100 Lab-Dup**	**RDL**	**QC Batch**
Total Boron (B)	mg/L	0.30	0.010	5782162			
Total Cadmium (Cd)	mg/L	<0.00010	0.00010	5782162			
Total Calcium (Ca)	mg/L	150	0.20	5782162			
Total Chromium (Cr)	mg/L	<0.0050	0.0050	5782162			
Total Cobalt (Co)	mg/L	<0.00050	0.00050	5782162			
Total Copper (Cu)	mg/L	0.0031	0.0010	5782162			
Total Iron (Fe)	mg/L	0.14	0.10	5782162			
Total Lead (Pb)	mg/L	<0.00050	0.00050	5782162			
Total Magnesium (Mg)	mg/L	20	0.050	5782162			
Total Manganese (Mn)	mg/L	0.17	0.0020	5782162			
Total Molybdenum (Mo)	mg/L	0.0010	0.00050	5782162			
Total Nickel (Ni)	mg/L	<0.0010	0.0010	5782162			
Total Phosphorus (P)	mg/L	<0.10	0.10	5782162			
Total Potassium (K)	mg/L	4.5	0.20	5782162			
Total Selenium (Se)	mg/L	<0.0020	0.0020	5782162			
Total Silicon (Si)	mg/L	3.6	0.050	5782162			
Total Silver (Ag)	mg/L	<0.00010	0.00010	5782162			
Total Sodium (Na)	mg/L	19	0.10	5782162			
Total Strontium (Sr)	mg/L	1.8	0.0010	5782162			
Total Thallium (Tl)	mg/L	<0.000050	0.000050	5782162			
Total Titanium (Ti)	mg/L	<0.0050	0.0050	5782162			
Total Uranium (U)	mg/L	0.00088	0.00010	5782162			
Total Vanadium (V)	mg/L	<0.00050	0.00050	5782162			
Total Zinc (Zn)	mg/L	<0.0050	0.0050	5782162			
Total Zirconium (Zr)	mg/L	<0.0010	0.0010	5782162			

RDL = Reportable Detection Limit
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Maxxam Job #: B8Q7982
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		HZJ523			HZJ523		
Sampling Date		2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD101**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD101 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	5778792			
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.7	1.0	5778792			
Hardness (CaCO3)	mg/L	440	1.0	5778622			
Langelier Index (@ 20C)	N/A	1.12		5777792			
Langelier Index (@ 4C)	N/A	0.867		5777793			
Saturation pH (@ 20C)	N/A	7.07		5777792			
Saturation pH (@ 4C)	N/A	7.32		5777793			
Inorganics							
Total Ammonia-N	mg/L	0.12	0.050	5783974			
Conductivity	umho/cm	870	1.0	5780772			
Total Organic Carbon (TOC)	mg/L	1.9	0.50	5783792			
Orthophosphate (P)	mg/L	<0.010	0.010	5789062			
pH	pH	8.19		5780775			
Total Phosphorus	mg/L	<0.004	0.004	5789659			
Dissolved Sulphate (SO4)	mg/L	280	1.0	5780913			
Turbidity	NTU	0.4	0.1	5780698			
Alkalinity (Total as CaCO3)	mg/L	190	1.0	5780756			
Dissolved Chloride (Cl-)	mg/L	19	1.0	5780912			
Nitrite (N)	mg/L	<0.010	0.010	5780858			
Nitrate (N)	mg/L	0.66	0.10	5780858			
Metals							
Dissolved Calcium (Ca)	mg/L	130	0.05	5782485	130	0.05	5782485
Dissolved Magnesium (Mg)	mg/L	25	0.05	5782485	24	0.05	5782485
Dissolved Potassium (K)	mg/L	7	1	5782485	7	1	5782485
Dissolved Sodium (Na)	mg/L	21	0.5	5782485	21	0.5	5782485
Total Aluminum (Al)	mg/L	0.023	0.0050	5782162			
Total Antimony (Sb)	mg/L	<0.00050	0.00050	5782162			
Total Arsenic (As)	mg/L	<0.0010	0.0010	5782162			
Total Barium (Ba)	mg/L	0.049	0.0020	5782162			
Total Beryllium (Be)	mg/L	<0.00050	0.00050	5782162			

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

Stantec Consulting Ltd
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Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		HZJ523			HZJ523		
Sampling Date		2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD101**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD101 Lab-Dup**	**RDL**	**QC Batch**
Total Boron (B)	mg/L	0.47	0.010	5782162			
Total Cadmium (Cd)	mg/L	<0.00010	0.00010	5782162			
Total Calcium (Ca)	mg/L	120	0.20	5782162			
Total Chromium (Cr)	mg/L	<0.0050	0.0050	5782162			
Total Cobalt (Co)	mg/L	<0.00050	0.00050	5782162			
Total Copper (Cu)	mg/L	<0.0010	0.0010	5782162			
Total Iron (Fe)	mg/L	<0.10	0.10	5782162			
Total Lead (Pb)	mg/L	<0.00050	0.00050	5782162			
Total Magnesium (Mg)	mg/L	25	0.050	5782162			
Total Manganese (Mn)	mg/L	0.18	0.0020	5782162			
Total Molybdenum (Mo)	mg/L	0.0018	0.00050	5782162			
Total Nickel (Ni)	mg/L	0.0010	0.0010	5782162			
Total Phosphorus (P)	mg/L	<0.10	0.10	5782162			
Total Potassium (K)	mg/L	6.5	0.20	5782162			
Total Selenium (Se)	mg/L	<0.0020	0.0020	5782162			
Total Silicon (Si)	mg/L	2.7	0.050	5782162			
Total Silver (Ag)	mg/L	<0.00010	0.00010	5782162			
Total Sodium (Na)	mg/L	19	0.10	5782162			
Total Strontium (Sr)	mg/L	2.9	0.0010	5782162			
Total Thallium (Tl)	mg/L	<0.000050	0.000050	5782162			
Total Titanium (Ti)	mg/L	<0.0050	0.0050	5782162			
Total Uranium (U)	mg/L	0.0012	0.00010	5782162			
Total Vanadium (V)	mg/L	<0.00050	0.00050	5782162			
Total Zinc (Zn)	mg/L	<0.0050	0.0050	5782162			
Total Zirconium (Zr)	mg/L	<0.0010	0.0010	5782162			

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Stantec Consulting Ltd
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Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: RD

RCAP - SURFACE WATER (WATER)

Maxxam ID		HZJ524			HZJ524		
Sampling Date		2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD102 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	5778792			
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.7	1.0	5778792			
Hardness (CaCO3)	mg/L	440	1.0	5778622			
Langelier Index (@ 20C)	N/A	1.11		5777792			
Langelier Index (@ 4C)	N/A	0.862		5777793			
Saturation pH (@ 20C)	N/A	7.09		5777792			
Saturation pH (@ 4C)	N/A	7.33		5777793			
Inorganics							
Total Ammonia-N	mg/L	0.069	0.050	5783974	<0.050	0.050	5783974
Conductivity	umho/cm	870	1.0	5780772			
Total Organic Carbon (TOC)	mg/L	1.9	0.50	5783792			
Orthophosphate (P)	mg/L	<0.010	0.010	5780917			
pH	pH	8.20		5780775			
Total Phosphorus	mg/L	0.005	0.004	5783444			
Dissolved Sulphate (SO4)	mg/L	280	1.0	5780913			
Turbidity	NTU	0.4	0.1	5780698			
Alkalinity (Total as CaCO3)	mg/L	190	1.0	5780756			
Dissolved Chloride (Cl-)	mg/L	19	1.0	5780912			
Nitrite (N)	mg/L	<0.010	0.010	5780858			
Nitrate (N)	mg/L	0.65	0.10	5780858			
Metals							
Dissolved Calcium (Ca)	mg/L	130	0.05	5782485			
Dissolved Magnesium (Mg)	mg/L	25	0.05	5782485			
Dissolved Potassium (K)	mg/L	7	1	5782485			
Dissolved Sodium (Na)	mg/L	21	0.5	5782485			
Total Aluminum (Al)	mg/L	0.025	0.0050	5782162			
Total Antimony (Sb)	mg/L	<0.00050	0.00050	5782162			
Total Arsenic (As)	mg/L	<0.0010	0.0010	5782162			
Total Barium (Ba)	mg/L	0.047	0.0020	5782162			
Total Beryllium (Be)	mg/L	<0.00050	0.00050	5782162			

RDL = Reportable Detection Limit
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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

RCAP - SURFACE WATER (WATER)

Maxxam ID		HZJ524			HZJ524		
Sampling Date		2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD102 Lab-Dup**	**RDL**	**QC Batch**
Total Boron (B)	mg/L	0.47	0.010	5782162			
Total Cadmium (Cd)	mg/L	<0.00010	0.00010	5782162			
Total Calcium (Ca)	mg/L	130	0.20	5782162			
Total Chromium (Cr)	mg/L	<0.0050	0.0050	5782162			
Total Cobalt (Co)	mg/L	<0.00050	0.00050	5782162			
Total Copper (Cu)	mg/L	<0.0010	0.0010	5782162			
Total Iron (Fe)	mg/L	0.25	0.10	5782162			
Total Lead (Pb)	mg/L	<0.00050	0.00050	5782162			
Total Magnesium (Mg)	mg/L	25	0.050	5782162			
Total Manganese (Mn)	mg/L	0.19	0.0020	5782162			
Total Molybdenum (Mo)	mg/L	0.0019	0.00050	5782162			
Total Nickel (Ni)	mg/L	0.0011	0.0010	5782162			
Total Phosphorus (P)	mg/L	<0.10	0.10	5782162			
Total Potassium (K)	mg/L	6.7	0.20	5782162			
Total Selenium (Se)	mg/L	<0.0020	0.0020	5782162			
Total Silicon (Si)	mg/L	2.7	0.050	5782162			
Total Silver (Ag)	mg/L	<0.00010	0.00010	5782162			
Total Sodium (Na)	mg/L	20	0.10	5782162			
Total Strontium (Sr)	mg/L	3.0	0.0010	5782162			
Total Thallium (Tl)	mg/L	<0.000050	0.000050	5782162			
Total Titanium (Ti)	mg/L	<0.0050	0.0050	5782162			
Total Uranium (U)	mg/L	0.0012	0.00010	5782162			
Total Vanadium (V)	mg/L	<0.00050	0.00050	5782162			
Total Zinc (Zn)	mg/L	<0.0050	0.0050	5782162			
Total Zirconium (Zr)	mg/L	<0.0010	0.0010	5782162			

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		HZJ522		HZJ523	HZJ524		
Sampling Date		2018/10/10 12:48		2018/10/10 17:30	2018/10/10 17:30		
COC Number		686535-01-01		686535-01-01	686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**QC Batch**	**WS-160900764-20181010-RD101**	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
Inorganics							
Acidity	mg/L	13	5787226	<5.0	<5.0	5.0	5787226
Total Dissolved Solids	mg/L	580	5783434	510	550	10	5783646
Fluoride (F-)	mg/L	0.27	5780748	0.38	0.37	0.10	5780748
Total Suspended Solids	mg/L	<10	5783154	<10	<10	10	5783154
WAD Cyanide (Free)	ug/L	<1	5783559	<1	<1	1	5783559

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HZJ522	HZJ523	HZJ524		
Sampling Date		2018/10/10 12:48	2018/10/10 17:30	2018/10/10 17:30		
COC Number		686535-01-01	686535-01-01	686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**WS-160900764-20181010-RD101**	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
Metals						
Chromium (VI)	ug/L	<0.50	<0.50	<0.50	0.50	5779274
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	0.1	5785112

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

O.REG 153 PCBS (WATER)

Maxxam ID		HZJ522	HZJ523	HZJ524		
Sampling Date		2018/10/10 12:48	2018/10/10 17:30	2018/10/10 17:30		
COC Number		686535-01-01	686535-01-01	686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**WS-160900764-20181010-RD101**	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
PCBs						
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	5782043
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	5782043
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	5782043
Surrogate Recovery (%)						
Decachlorobiphenyl	%	71	72	57 (1)		5782043

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) The Surrogate recovery was below the acceptance criteria as stipulated by Ontario Regulation 153, however, this recovery is still within Maxxam's performance based criteria. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

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

Maxxam ID		HZJ522	HZJ523			HZJ523		
Sampling Date		2018/10/10 12:48	2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01	686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**WS-160900764-20181010-RD101**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD101 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	5778334			
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	10	5782583	<10	10	5782583
Benzene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
Bromoform	ug/L	<1.0	<1.0	1.0	5782583	<1.0	1.0	5782583
Bromomethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Chlorobenzene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Chloroform	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	5782583	<1.0	1.0	5782583
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	5782583	<0.30	0.30	5782583
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	5782583	<0.40	0.40	5782583
Ethylbenzene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Hexane	ug/L	<1.0	<1.0	1.0	5782583	<1.0	1.0	5782583
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	5782583	<2.0	2.0	5782583
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	5782583	<10	10	5782583
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	5782583	<5.0	5.0	5782583
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

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

Maxxam ID		HZJ522	HZJ523			HZJ523		
Sampling Date		2018/10/10 12:48	2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01	686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**WS-160900764-20181010-RD101**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD101 Lab-Dup**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Toluene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
Trichloroethylene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	5782583	<0.50	0.50	5782583
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
p+m-Xylene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
o-Xylene	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
Total Xylenes	ug/L	<0.20	<0.20	0.20	5782583	<0.20	0.20	5782583
F1 (C6-C10)	ug/L	<25	<25	25	5782583	<25	25	5782583
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	5782583	<25	25	5782583
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	5782082			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	5782082			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	5782082			
Reached Baseline at C50	ug/L	Yes	Yes		5782082			
Surrogate Recovery (%)								
o-Terphenyl	%	100	95		5782082			
4-Bromofluorobenzene	%	72	75		5782583	73		5782583
D4-1,2-Dichloroethane	%	116	117		5782583	118		5782583
D8-Toluene	%	97	99		5782583	97		5782583

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

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

Maxxam ID		HZJ524		
Sampling Date		2018/10/10 17:30		
COC Number		686535-01-01		
	UNITS	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	5778334
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	5782583
Benzene	ug/L	<0.20	0.20	5782583
Bromodichloromethane	ug/L	<0.50	0.50	5782583
Bromoform	ug/L	<1.0	1.0	5782583
Bromomethane	ug/L	<0.50	0.50	5782583
Carbon Tetrachloride	ug/L	<0.20	0.20	5782583
Chlorobenzene	ug/L	<0.20	0.20	5782583
Chloroform	ug/L	<0.20	0.20	5782583
Dibromochloromethane	ug/L	<0.50	0.50	5782583
1,2-Dichlorobenzene	ug/L	<0.50	0.50	5782583
1,3-Dichlorobenzene	ug/L	<0.50	0.50	5782583
1,4-Dichlorobenzene	ug/L	<0.50	0.50	5782583
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	5782583
1,1-Dichloroethane	ug/L	<0.20	0.20	5782583
1,2-Dichloroethane	ug/L	<0.50	0.50	5782583
1,1-Dichloroethylene	ug/L	<0.20	0.20	5782583
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	5782583
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	5782583
1,2-Dichloropropane	ug/L	<0.20	0.20	5782583
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	5782583
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	5782583
Ethylbenzene	ug/L	<0.20	0.20	5782583
Ethylene Dibromide	ug/L	<0.20	0.20	5782583
Hexane	ug/L	<1.0	1.0	5782583
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	5782583
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	5782583
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	5782583
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	5782583

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

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

Maxxam ID		HZJ524		
Sampling Date		2018/10/10 17:30		
COC Number		686535-01-01		
	UNITS	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	0.50	5782583
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	5782583
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	5782583
Tetrachloroethylene	ug/L	<0.20	0.20	5782583
Toluene	ug/L	<0.20	0.20	5782583
1,1,1-Trichloroethane	ug/L	<0.20	0.20	5782583
1,1,2-Trichloroethane	ug/L	<0.50	0.50	5782583
Trichloroethylene	ug/L	<0.20	0.20	5782583
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	5782583
Vinyl Chloride	ug/L	<0.20	0.20	5782583
p+m-Xylene	ug/L	<0.20	0.20	5782583
o-Xylene	ug/L	<0.20	0.20	5782583
Total Xylenes	ug/L	<0.20	0.20	5782583
F1 (C6-C10)	ug/L	<25	25	5782583
F1 (C6-C10) - BTEX	ug/L	<25	25	5782583
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	5782082
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	5782082
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	5782082
Reached Baseline at C50	ug/L	Yes		5782082
Surrogate Recovery (%)				
o-Terphenyl	%	98		5782082
4-Bromofluorobenzene	%	72		5782583
D4-1,2-Dichloroethane	%	119		5782583
D8-Toluene	%	98		5782583

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q7982
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Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
Sampler Initials: RD

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ522	HZJ523			HZJ523		
Sampling Date		2018/10/10 12:48	2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01	686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**WS-160900764-20181010-RD101**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD101 Lab-Dup**	**RDL**	**QC Batch**
Semivolatile Organics								
1,2,4-Trichlorobenzene	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
1-Methylnaphthalene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
2,4,5-Trichlorophenol	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
2,4,6-Trichlorophenol	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
2,4-Dichlorophenol	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
2,4-Dimethylphenol	ug/L	<0.5	<0.5	0.5	5784196	<0.5	0.5	5784196
2,4-Dinitrophenol	ug/L	<2	<2	2	5784196	<2	2	5784196
2,4-Dinitrotoluene	ug/L	<0.3	<0.3	0.3	5784196	<0.3	0.3	5784196
2,6-Dinitrotoluene	ug/L	<0.3	<0.3	0.3	5784196	<0.3	0.3	5784196
2-Chlorophenol	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
2-Methylnaphthalene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
3,3'-Dichlorobenzidine	ug/L	<0.5	<0.5	0.5	5784196	<0.5	0.5	5784196
Acenaphthene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
Acenaphthylene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
Anthracene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Benzo(a)anthracene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Benzo(a)pyrene	ug/L	<0.01	<0.01	0.01	5784196	<0.01	0.01	5784196
Benzo(b/j)fluoranthene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Benzo(g,h,i)perylene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Benzo(k)fluoranthene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Biphenyl	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Bis(2-chloroethyl)ether	ug/L	<0.5	<0.5	0.5	5784196	<0.5	0.5	5784196
Bis(2-chloroisopropyl)ether	ug/L	<0.5	<0.5	0.5	5784196	<0.5	0.5	5784196
Bis(2-ethylhexyl)phthalate	ug/L	<1	<1	1	5784196	<1	1	5784196
Chrysene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Dibenz(a,h)anthracene	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Diethyl phthalate	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Dimethyl phthalate	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Fluoranthene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
Fluorene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ522	HZJ523			HZJ523		
Sampling Date		2018/10/10 12:48	2018/10/10 17:30			2018/10/10 17:30		
COC Number		686535-01-01	686535-01-01			686535-01-01		
	UNITS	**WS-160900764-20181010-RD100**	**WS-160900764-20181010-RD101**	**RDL**	**QC Batch**	**WS-160900764-20181010-RD101 Lab-Dup**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Naphthalene	ug/L	<0.2	<0.2	0.2	5784196	<0.2	0.2	5784196
p-Chloroaniline	ug/L	<1	<1	1	5784196	<1	1	5784196
Pentachlorophenol	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Phenanthrene	ug/L	<0.1	<0.1	0.1	5784196	<0.1	0.1	5784196
Phenol	ug/L	<0.5	<0.5	0.5	5784196	<0.5	0.5	5784196
Pyrene	ug/L	<0.05	<0.05	0.05	5784196	<0.05	0.05	5784196
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.28	<0.28	0.28	5778333			
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	78	83		5784196	65		5784196
2-Fluorobiphenyl	%	66	68		5784196	70		5784196
D14-Terphenyl (FS)	%	93	93		5784196	93		5784196
D5-Nitrobenzene	%	69	69		5784196	70		5784196

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

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ524		
Sampling Date		2018/10/10 17:30		
COC Number		686535-01-01		
	UNITS	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
Semivolatile Organics				
1,2,4-Trichlorobenzene	ug/L	<0.1	0.1	5784196
1-Methylnaphthalene	ug/L	<0.2	0.2	5784196
2,4,5-Trichlorophenol	ug/L	<0.2	0.2	5784196
2,4,6-Trichlorophenol	ug/L	<0.2	0.2	5784196
2,4-Dichlorophenol	ug/L	<0.1	0.1	5784196
2,4-Dimethylphenol	ug/L	<0.5	0.5	5784196
2,4-Dinitrophenol	ug/L	<2	2	5784196
2,4-Dinitrotoluene	ug/L	<0.3	0.3	5784196
2,6-Dinitrotoluene	ug/L	<0.3	0.3	5784196
2-Chlorophenol	ug/L	<0.1	0.1	5784196
2-Methylnaphthalene	ug/L	<0.2	0.2	5784196
3,3'-Dichlorobenzidine	ug/L	<0.5	0.5	5784196
Acenaphthene	ug/L	<0.2	0.2	5784196
Acenaphthylene	ug/L	<0.2	0.2	5784196
Anthracene	ug/L	<0.05	0.05	5784196
Benzo(a)anthracene	ug/L	<0.05	0.05	5784196
Benzo(a)pyrene	ug/L	<0.01	0.01	5784196
Benzo(b/j)fluoranthene	ug/L	<0.05	0.05	5784196
Benzo(g,h,i)perylene	ug/L	<0.05	0.05	5784196
Benzo(k)fluoranthene	ug/L	<0.05	0.05	5784196
Biphenyl	ug/L	<0.1	0.1	5784196
Bis(2-chloroethyl)ether	ug/L	<0.5	0.5	5784196
Bis(2-chloroisopropyl)ether	ug/L	<0.5	0.5	5784196
Bis(2-ethylhexyl)phthalate	ug/L	<1	1	5784196
Chrysene	ug/L	<0.05	0.05	5784196
Dibenz(a,h)anthracene	ug/L	<0.1	0.1	5784196
Diethyl phthalate	ug/L	<0.1	0.1	5784196
Dimethyl phthalate	ug/L	<0.1	0.1	5784196
Fluoranthene	ug/L	<0.2	0.2	5784196
Fluorene	ug/L	<0.2	0.2	5784196

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

Maxxam ID		HZJ524		
Sampling Date		2018/10/10 17:30		
COC Number		686535-01-01		
	UNITS	**WS-160900764-20181010-RD102**	**RDL**	**QC Batch**
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	0.1	5784196
Naphthalene	ug/L	<0.2	0.2	5784196
p-Chloroaniline	ug/L	<1	1	5784196
Pentachlorophenol	ug/L	<0.1	0.1	5784196
Phenanthrene	ug/L	<0.1	0.1	5784196
Phenol	ug/L	<0.5	0.5	5784196
Pyrene	ug/L	<0.05	0.05	5784196
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.28	0.28	5778333
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	83		5784196
2-Fluorobiphenyl	%	68		5784196
D14-Terphenyl (FS)	%	90		5784196
D5-Nitrobenzene	%	72		5784196

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

TEST SUMMARY

Maxxam ID: HZJ522
Sample ID: WS-160900764-20181010-RD100
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5778333	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5784196	2018/10/15	2018/10/17	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5780756	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5778792	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5778334	N/A	2018/10/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	5780912	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5780772	N/A	2018/10/13	Surinder Rai
Chromium (VI) in Water	IC	5779274	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783559	N/A	2018/10/15	Louise Harding
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5782082	2018/10/13	2018/10/15	Anna Stuglik Rolland
Fluoride	ISE	5780748	2018/10/12	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5778622	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785112	2018/10/16	2018/10/16	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5782485	2018/10/13	2018/10/15	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	5782162	N/A	2018/10/15	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5783974	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5780858	N/A	2018/10/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/13	Svitlana Shaula
pH	AT	5780775	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5780917	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/16	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/16	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5780913	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids	BAL	5783434	2018/10/15	2018/10/16	Jingwei (Alvin) Shi
Total Organic Carbon (TOC)	TOCV/NDIR	5783792	N/A	2018/10/15	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	5783444	2018/10/15	2018/10/15	Amanpreet Sappal
Total Suspended Solids	BAL	5783154	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5780698	N/A	2018/10/12	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5782583	N/A	2018/10/16	Manpreet Sarao

Maxxam ID: HZJ522 Dup
Sample ID: WS-160900764-20181010-RD100
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	5783792	N/A	2018/10/15	Nimarta Singh

Maxxam ID: HZJ523
Sample ID: WS-160900764-20181010-RD101
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5778333	N/A	2018/10/17	Automated Statchk

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

TEST SUMMARY

Maxxam ID: HZJ523
Sample ID: WS-160900764-20181010-RD101
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5784196	2018/10/15	2018/10/17	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5780756	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5778792	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5778334	N/A	2018/10/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	5780912	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5780772	N/A	2018/10/13	Surinder Rai
Chromium (VI) in Water	IC	5779274	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783559	N/A	2018/10/15	Louise Harding
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5782082	2018/10/13	2018/10/15	Anna Stuglik Rolland
Fluoride	ISE	5780748	2018/10/12	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5778622	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785112	2018/10/16	2018/10/16	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5782485	2018/10/13	2018/10/15	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	5782162	N/A	2018/10/15	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5783974	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5780858	N/A	2018/10/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/13	Svitlana Shaula
pH	AT	5780775	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5789062	N/A	2018/10/18	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5780913	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids	BAL	5783646	2018/10/16	2018/10/17	Niket Kumar Patel
Total Organic Carbon (TOC)	TOCV/NDIR	5783792	N/A	2018/10/15	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	5789659	2018/10/18	2018/10/18	Amanpreet Sappal
Total Suspended Solids	BAL	5783154	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5780698	N/A	2018/10/12	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5782583	N/A	2018/10/17	Manpreet Sarao

Maxxam ID: HZJ523 Dup
Sample ID: WS-160900764-20181010-RD101
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by SIM GC/MS	GC/MS	5784196	2018/10/15	2018/10/17	Milijana Avramovic
Lab Filtered Metals Analysis by ICP	ICP	5782485	2018/10/13	2018/10/15	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5782583	N/A	2018/10/17	Manpreet Sarao

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

TEST SUMMARY

Maxxam ID: HZJ524
Sample ID: WS-160900764-20181010-RD102
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5778333	N/A	2018/10/17	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	5784196	2018/10/15	2018/10/17	Milijana Avramovic
Acidity (CaCO3) in water	MT	5787226	N/A	2018/10/17	Brent Boudreau
Alkalinity	AT	5780756	N/A	2018/10/13	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	5778792	N/A	2018/10/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	5778334	N/A	2018/10/17	Automated Statchk
Chloride by Automated Colourimetry	KONE	5780912	N/A	2018/10/16	Deonarine Ramnarine
Conductivity	AT	5780772	N/A	2018/10/13	Surinder Rai
Chromium (VI) in Water	IC	5779274	N/A	2018/10/16	Lang Le
Free (WAD) Cyanide	SKAL/CN	5783559	N/A	2018/10/15	Louise Harding
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	5782082	2018/10/13	2018/10/15	Anna Stuglik Rolland
Fluoride	ISE	5780748	2018/10/12	2018/10/13	Surinder Rai
Hardness (calculated as CaCO3)		5778622	N/A	2018/10/15	Automated Statchk
Mercury	CV/AA	5785112	2018/10/16	2018/10/16	Ron Morrison
Lab Filtered Metals Analysis by ICP	ICP	5782485	2018/10/13	2018/10/15	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	5782162	N/A	2018/10/15	Arefa Dabhad
Total Ammonia-N	LACH/NH4	5783974	N/A	2018/10/16	Chandra Nandlal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	5780858	N/A	2018/10/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	5782043	2018/10/13	2018/10/13	Svitlana Shaula
pH	AT	5780775	N/A	2018/10/13	Surinder Rai
Orthophosphate	KONE	5780917	N/A	2018/10/15	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	5777792	N/A	2018/10/17	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	5777793	N/A	2018/10/17	Automated Statchk
Sulphate by Automated Colourimetry	KONE	5780913	N/A	2018/10/15	Alina Dobreanu
Total Dissolved Solids	BAL	5783646	2018/10/16	2018/10/17	Niket Kumar Patel
Total Organic Carbon (TOC)	TOCV/NDIR	5783792	N/A	2018/10/15	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	5783444	2018/10/15	2018/10/15	Amanpreet Sappal
Total Suspended Solids	BAL	5783154	2018/10/15	2018/10/16	Niket Kumar Patel
Turbidity	AT	5780698	N/A	2018/10/12	Barbara Kalbasi Esfahani
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5782583	N/A	2018/10/17	Manpreet Sarao

Maxxam ID: HZJ524 Dup
Sample ID: WS-160900764-20181010-RD102
Matrix: Water

Collected: 2018/10/10
Shipped:
Received: 2018/10/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	5783974	N/A	2018/10/16	Chandra Nandlal

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

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

GENERAL COMMENTS

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

Package 1	10.3°C
Package 2	9.0°C
Package 3	4.0°C
Package 4	2.3°C
Package 5	5.3°C
Package 6	4.0°C
Package 7	7.0°C
Package 8	6.3°C
Package 9	7.3°C
Package 10	9.7°C
Package 11	9.0°C
Package 12	9.3°C
Package 13	7.3°C
Package 14	6.3°C
Package 15	7.0°C
Package 16	9.0°C
Package 17	11.0°C

Results relate only to the items tested.

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
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
5782043	Decachlorobiphenyl	2018/10/13	53 (1)	60 - 130	64	60 - 130	64	%				
5782082	o-Terphenyl	2018/10/15	103	60 - 130	107	60 - 130	94	%				
5782583	4-Bromofluorobenzene	2018/10/16	101	70 - 130	102	70 - 130	81	%				
5782583	D4-1,2-Dichloroethane	2018/10/16	116	70 - 130	113	70 - 130	115	%				
5782583	D8-Toluene	2018/10/16	101	70 - 130	102	70 - 130	97	%				
5784196	2,4,6-Tribromophenol	2018/10/17	96	50 - 130	95	50 - 130	73	%				
5784196	2-Fluorobiphenyl	2018/10/17	67	50 - 130	56	50 - 130	69	%				
5784196	D14-Terphenyl (FS)	2018/10/17	93	50 - 130	92	50 - 130	94	%				
5784196	D5-Nitrobenzene	2018/10/17	76	50 - 130	69	50 - 130	75	%				
5779274	Chromium (VI)	2018/10/16	103	80 - 120	103	80 - 120	<0.50	ug/L	3.9	20		
5780698	Turbidity	2018/10/12			101	85 - 115	<0.1	NTU	1.0	20		
5780748	Fluoride (F-)	2018/10/13	93	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
5780756	Alkalinity (Total as CaCO3)	2018/10/13			96	85 - 115	<1.0	mg/L	1.4	20		
5780772	Conductivity	2018/10/13			100	85 - 115	<1.0	umho/cm	1.1	25		
5780775	pH	2018/10/13			101	98 - 103			2.5	N/A		
5780858	Nitrate (N)	2018/10/15	97	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
5780858	Nitrite (N)	2018/10/15	98	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
5780912	Dissolved Chloride (Cl-)	2018/10/16	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.24	20		
5780913	Dissolved Sulphate (SO4)	2018/10/15	NC	75 - 125	106	80 - 120	<1.0	mg/L	0.094	20		
5780917	Orthophosphate (P)	2018/10/15	98	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
5782043	Aroclor 1242	2018/10/13					<0.05	ug/L	NC	30		
5782043	Aroclor 1248	2018/10/13					<0.05	ug/L	NC	30		
5782043	Aroclor 1254	2018/10/13					<0.05	ug/L	NC	30		
5782043	Aroclor 1260	2018/10/13	75	60 - 130	79	60 - 130	<0.05	ug/L	NC	30		
5782043	Total PCB	2018/10/13	75	60 - 130	79	60 - 130	<0.05	ug/L	NC	40		
5782082	F2 (C10-C16 Hydrocarbons)	2018/10/15	106	50 - 130	108	60 - 130	<100	ug/L	NC	30		
5782082	F3 (C16-C34 Hydrocarbons)	2018/10/15	97	50 - 130	103	60 - 130	<200	ug/L	NC	30		
5782082	F4 (C34-C50 Hydrocarbons)	2018/10/15	96	50 - 130	98	60 - 130	<200	ug/L	NC	30		
5782162	Total Aluminum (Al)	2018/10/15	94	80 - 120	92	80 - 120	<0.0050	mg/L				
5782162	Total Antimony (Sb)	2018/10/15	100	80 - 120	99	80 - 120	<0.00050	mg/L				

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Maxxam Job #: B8Q7982
Report Date: 2018/10/18

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
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
5782162	Total Arsenic (As)	2018/10/15	97	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
5782162	Total Barium (Ba)	2018/10/15	96	80 - 120	95	80 - 120	<0.0020	mg/L	3.0	20		
5782162	Total Beryllium (Be)	2018/10/15	94	80 - 120	91	80 - 120	<0.00050	mg/L				
5782162	Total Boron (B)	2018/10/15	94	80 - 120	91	80 - 120	<0.010	mg/L	1.8	20		
5782162	Total Cadmium (Cd)	2018/10/15	98	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20		
5782162	Total Calcium (Ca)	2018/10/15	NC	80 - 120	93	80 - 120	<0.20	mg/L				
5782162	Total Chromium (Cr)	2018/10/15	91	80 - 120	92	80 - 120	<0.0050	mg/L	NC	20		
5782162	Total Cobalt (Co)	2018/10/15	93	80 - 120	92	80 - 120	<0.00050	mg/L				
5782162	Total Copper (Cu)	2018/10/15	93	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20		
5782162	Total Iron (Fe)	2018/10/15	96	80 - 120	96	80 - 120	<0.10	mg/L	0.55	20		
5782162	Total Lead (Pb)	2018/10/15	96	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
5782162	Total Magnesium (Mg)	2018/10/15	93	80 - 120	94	80 - 120	<0.050	mg/L				
5782162	Total Manganese (Mn)	2018/10/15	93	80 - 120	94	80 - 120	<0.0020	mg/L				
5782162	Total Molybdenum (Mo)	2018/10/15	96	80 - 120	95	80 - 120	<0.00050	mg/L				
5782162	Total Nickel (Ni)	2018/10/15	92	80 - 120	95	80 - 120	<0.0010	mg/L				
5782162	Total Phosphorus (P)	2018/10/15	99	80 - 120	104	80 - 120	<0.10	mg/L				
5782162	Total Potassium (K)	2018/10/15	92	80 - 120	93	80 - 120	<0.20	mg/L				
5782162	Total Selenium (Se)	2018/10/15	103	80 - 120	101	80 - 120	<0.0020	mg/L				
5782162	Total Silicon (Si)	2018/10/15	91	80 - 120	91	80 - 120	<0.050	mg/L				
5782162	Total Silver (Ag)	2018/10/15	94	80 - 120	95	80 - 120	<0.00010	mg/L				
5782162	Total Sodium (Na)	2018/10/15	89	80 - 120	94	80 - 120	<0.10	mg/L				
5782162	Total Strontium (Sr)	2018/10/15	91	80 - 120	94	80 - 120	<0.0010	mg/L				
5782162	Total Thallium (Tl)	2018/10/15	97	80 - 120	95	80 - 120	<0.000050	mg/L				
5782162	Total Titanium (Ti)	2018/10/15	97	80 - 120	94	80 - 120	<0.0050	mg/L				
5782162	Total Uranium (U)	2018/10/15	100	80 - 120	100	80 - 120	<0.00010	mg/L				
5782162	Total Vanadium (V)	2018/10/15	93	80 - 120	94	80 - 120	<0.00050	mg/L				
5782162	Total Zinc (Zn)	2018/10/15	96	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
5782162	Total Zirconium (Zr)	2018/10/15	98	80 - 120	97	80 - 120	<0.0010	mg/L				
5782485	Dissolved Calcium (Ca)	2018/10/15	NC	80 - 120	99	80 - 120	<0.05	mg/L	2.8	25		
5782485	Dissolved Magnesium (Mg)	2018/10/15	NC	80 - 120	96	80 - 120	<0.05	mg/L	3.1	25		
5782485	Dissolved Potassium (K)	2018/10/15	106	80 - 120	100	80 - 120	<1	mg/L	2.4	25		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
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
5782485	Dissolved Sodium (Na)	2018/10/15	NC	80 - 120	99	80 - 120	<0.5	mg/L	0.049	25		
5782583	1,1,1,2-Tetrachloroethane	2018/10/17	100	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782583	1,1,1-Trichloroethane	2018/10/17	102	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5782583	1,1,2,2-Tetrachloroethane	2018/10/17	101	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782583	1,1,2-Trichloroethane	2018/10/17	101	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
5782583	1,1-Dichloroethane	2018/10/17	102	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5782583	1,1-Dichloroethylene	2018/10/17	101	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5782583	1,2-Dichlorobenzene	2018/10/17	98	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
5782583	1,2-Dichloroethane	2018/10/17	114	70 - 130	107	70 - 130	<0.50	ug/L	NC	30		
5782583	1,2-Dichloropropane	2018/10/17	99	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
5782583	1,3-Dichlorobenzene	2018/10/17	100	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782583	1,4-Dichlorobenzene	2018/10/17	84	70 - 130	83	70 - 130	<0.50	ug/L	NC	30		
5782583	Acetone (2-Propanone)	2018/10/17	108	60 - 140	105	60 - 140	<10	ug/L	NC	30		
5782583	Benzene	2018/10/17	101	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
5782583	Bromodichloromethane	2018/10/17	104	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782583	Bromoform	2018/10/17	99	70 - 130	95	70 - 130	<1.0	ug/L	NC	30		
5782583	Bromomethane	2018/10/17	105	60 - 140	97	60 - 140	<0.50	ug/L	NC	30		
5782583	Carbon Tetrachloride	2018/10/17	102	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
5782583	Chlorobenzene	2018/10/17	93	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
5782583	Chloroform	2018/10/17	105	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
5782583	cis-1,2-Dichloroethylene	2018/10/17	98	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5782583	cis-1,3-Dichloropropene	2018/10/17	102	70 - 130	90	70 - 130	<0.30	ug/L	NC	30		
5782583	Dibromochloromethane	2018/10/17	102	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
5782583	Dichlorodifluoromethane (FREON 12)	2018/10/17	95	60 - 140	92	60 - 140	<1.0	ug/L	NC	30		
5782583	Ethylbenzene	2018/10/17	91	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
5782583	Ethylene Dibromide	2018/10/17	105	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
5782583	F1 (C6-C10) - BTEX	2018/10/17					<25	ug/L	NC	30		
5782583	F1 (C6-C10)	2018/10/17	99	60 - 140	100	60 - 140	<25	ug/L	NC	30		
5782583	Hexane	2018/10/17	98	70 - 130	91	70 - 130	<1.0	ug/L	NC	30		
5782583	Methyl Ethyl Ketone (2-Butanone)	2018/10/17	112	60 - 140	107	60 - 140	<10	ug/L	NC	30		
5782583	Methyl Isobutyl Ketone	2018/10/17	94	70 - 130	89	70 - 130	<5.0	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 160900764
Site Location: CLARINGTON TS - SURFACE WATER
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
5782583	Methyl t-butyl ether (MTBE)	2018/10/17	97	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5782583	Methylene Chloride(Dichloromethane)	2018/10/17	100	70 - 130	94	70 - 130	<2.0	ug/L	NC	30		
5782583	o-Xylene	2018/10/17	90	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
5782583	p+m-Xylene	2018/10/17	90	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
5782583	Styrene	2018/10/17	95	70 - 130	92	70 - 130	<0.50	ug/L	NC	30		
5782583	Tetrachloroethylene	2018/10/17	96	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
5782583	Toluene	2018/10/17	100	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
5782583	Total Xylenes	2018/10/17					<0.20	ug/L	NC	30		
5782583	trans-1,2-Dichloroethylene	2018/10/17	97	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
5782583	trans-1,3-Dichloropropene	2018/10/17	104	70 - 130	91	70 - 130	<0.40	ug/L	NC	30		
5782583	Trichloroethylene	2018/10/17	97	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
5782583	Trichlorofluoromethane (FREON 11)	2018/10/17	104	70 - 130	99	70 - 130	<0.50	ug/L	NC	30		
5782583	Vinyl Chloride	2018/10/17	94	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
5783154	Total Suspended Solids	2018/10/16					<10	mg/L	NC	25	98	85 - 115
5783434	Total Dissolved Solids	2018/10/16					<10	mg/L	1.4	25	100	90 - 110
5783444	Total Phosphorus	2018/10/15	93	80 - 120	92	80 - 120	<0.004	mg/L	15	20	95	80 - 120
5783559	WAD Cyanide (Free)	2018/10/15	101	80 - 120	101	80 - 120	<1	ug/L	NC	20		
5783646	Total Dissolved Solids	2018/10/17					<10	mg/L	1.7	25	98	90 - 110
5783792	Total Organic Carbon (TOC)	2018/10/15	98	80 - 120	99	80 - 120	<0.50	mg/L	0.28	20		
5783974	Total Ammonia-N	2018/10/16	98	75 - 125	97	80 - 120	<0.050	mg/L	NC	20		
5784196	1,2,4-Trichlorobenzene	2018/10/17	63	50 - 130	54	50 - 130	<0.1	ug/L	NC	30		
5784196	1-Methylnaphthalene	2018/10/17	82	50 - 130	75	50 - 130	<0.2	ug/L	NC	30		
5784196	2,4,5-Trichlorophenol	2018/10/17	80	50 - 130	76	50 - 130	<0.2	ug/L	NC	30		
5784196	2,4,6-Trichlorophenol	2018/10/17	72	50 - 130	69	50 - 130	<0.2	ug/L	NC	30		
5784196	2,4-Dichlorophenol	2018/10/17	76	50 - 130	67	50 - 130	<0.1	ug/L	NC	30		
5784196	2,4-Dimethylphenol	2018/10/17	27 (2)	30 - 130	56	30 - 130	<0.5	ug/L	NC	30		
5784196	2,4-Dinitrophenol	2018/10/17	115	30 - 130	129	30 - 130	<2	ug/L	NC	30		
5784196	2,4-Dinitrotoluene	2018/10/17	88	50 - 130	93	50 - 130	<0.3	ug/L	NC	30		
5784196	2,6-Dinitrotoluene	2018/10/17	81	50 - 130	83	50 - 130	<0.3	ug/L	NC	30		
5784196	2-Chlorophenol	2018/10/17	63	50 - 130	62	50 - 130	<0.1	ug/L	NC	30		
5784196	2-Methylnaphthalene	2018/10/17	79	50 - 130	71	50 - 130	<0.2	ug/L	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

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Site Location: CLARINGTON TS - SURFACE WATER
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
5784196	3,3'-Dichlorobenzidine	2018/10/17	38	30 - 130	96	30 - 130	<0.5	ug/L	NC	30		
5784196	Acenaphthene	2018/10/17	81	50 - 130	78	50 - 130	<0.2	ug/L	NC	30		
5784196	Acenaphthylene	2018/10/17	79	50 - 130	76	50 - 130	<0.2	ug/L	NC	30		
5784196	Anthracene	2018/10/17	81	50 - 130	83	50 - 130	<0.05	ug/L	NC	30		
5784196	Benzo(a)anthracene	2018/10/17	90	50 - 130	93	50 - 130	<0.05	ug/L	NC	30		
5784196	Benzo(a)pyrene	2018/10/17	91	50 - 130	93	50 - 130	<0.01	ug/L	NC	30		
5784196	Benzo(b/j)fluoranthene	2018/10/17	90	50 - 130	92	50 - 130	<0.05	ug/L	NC	30		
5784196	Benzo(g,h,i)perylene	2018/10/17	91	50 - 130	93	50 - 130	<0.05	ug/L	NC	30		
5784196	Benzo(k)fluoranthene	2018/10/17	95	50 - 130	93	50 - 130	<0.05	ug/L	NC	30		
5784196	Biphenyl	2018/10/17	79	50 - 130	73	50 - 130	<0.1	ug/L	NC	30		
5784196	Bis(2-chloroethyl)ether	2018/10/17	65	50 - 130	58	50 - 130	<0.5	ug/L	NC	30		
5784196	Bis(2-chloroisopropyl)ether	2018/10/17	73	50 - 130	65	50 - 130	<0.5	ug/L	NC	30		
5784196	Bis(2-ethylhexyl)phthalate	2018/10/17	89	50 - 130	88	50 - 130	<1	ug/L	NC	30		
5784196	Chrysene	2018/10/17	96	50 - 130	97	50 - 130	<0.05	ug/L	NC	30		
5784196	Dibenz(a,h)anthracene	2018/10/17	95	50 - 130	97	50 - 130	<0.1	ug/L	NC	30		
5784196	Diethyl phthalate	2018/10/17	97	50 - 130	98	50 - 130	<0.1	ug/L	NC	30		
5784196	Dimethyl phthalate	2018/10/17	95	50 - 130	94	50 - 130	<0.1	ug/L	NC	30		
5784196	Fluoranthene	2018/10/17	96	50 - 130	98	50 - 130	<0.2	ug/L	NC	30		
5784196	Fluorene	2018/10/17	76	50 - 130	88	50 - 130	<0.2	ug/L	NC	30		
5784196	Indeno(1,2,3-cd)pyrene	2018/10/17	92	50 - 130	94	50 - 130	<0.1	ug/L	NC	30		
5784196	Naphthalene	2018/10/17	91	50 - 130	83	50 - 130	<0.2	ug/L	NC	30		
5784196	p-Chloroaniline	2018/10/17	47	30 - 130	74	30 - 130	<1	ug/L	NC	30		
5784196	Pentachlorophenol	2018/10/17	98	50 - 130	90	50 - 130	<0.1	ug/L	NC	30		
5784196	Phenanthrene	2018/10/17	87	50 - 130	87	50 - 130	<0.1	ug/L	NC	30		
5784196	Phenol	2018/10/17	28 (2)	30 - 130	29 (2)	30 - 130	<0.5	ug/L	NC	30		
5784196	Pyrene	2018/10/17	91	50 - 130	94	50 - 130	<0.05	ug/L	NC	30		
5785112	Mercury (Hg)	2018/10/16	92	75 - 125	99	80 - 120	<0.1	ug/L	NC	20		
5787226	Acidity	2018/10/17	87	80 - 120	101	80 - 120	<5.0	mg/L	4.3	25		
5789062	Orthophosphate (P)	2018/10/18	NC	75 - 125	99	80 - 120	<0.010	mg/L	2.2	25		

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QUALITY ASSURANCE REPORT(CONT'D)

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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
5789659	Total Phosphorus	2018/10/18	NC	80 - 120	81	80 - 120	<0.004	mg/L	3.7	20	85	80 - 120

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 Surrogate recovery was below the acceptance criteria as stipulated by Ontario Regulation 153, however, this recovery is still within Maxxam's performance based criteria. Results reported with surrogate recoveries within this range are still valid but may have an associated low bias.

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

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VALIDATION SIGNATURE PAGE

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

Cristina Carriere

Cristina Carriere, Scientific Service 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.

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
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COOLER OBSERVATIONS:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	10	11	10
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	8	9	10
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	4	6	2
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	3	2	2
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	6	4	4
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	2	4	6
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	8	6	2
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	6	7	6
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	8	7	7
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	10	10	9
INTACT	X			1	2	3
ICE PRESENT	X					

MAXXAM JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	10	8	9
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	8	9	11
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	8	7	7
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	7	6	6
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	5	7	6
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	10	9	8
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	X		TEMP	10	11	12
INTACT	X			1	2	3
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Jwoodward	jennawoodward	2018/10/11	09:00

Maxxam
A Bureau Veritas Group 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

STAT

11-Oct-18 08:30
Ronklin Gracian
B8Q7982
URE ENV-1405

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Only:
Bottle Order #: 686535
Project Manager: Ronklin Gracian
COC #: C#686535-01-01

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 Fax: (519) 579-6733	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 Day

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 [ ] 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 ___; [X] PWQO; [ ] Other ___

Special Instructions

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

Tumaround 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 apply 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-160900764-201810~~ 10 RD100	2018-10-18	12:48	SW	4	X	X	X	X	X	X	X	X	X		17	~~Analyze~~
2		WS-160900764-201810 10 RD101		17:30	SW	4	X	X	X	X	X	X	X	X	X		17	Analyze as received
3		WS-160900764-201810 10 RD102		17:30	SW	4	X	X	X	X	X	X	X	X	X		17	
4		WS-160900764-201810___			SW													
5		WS-160900764-201810___			SW													
6																		
7																		
8																		
9																		
10																		

REC'D IN PORT HOPE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
JAMIE KOCH	18/10/10	2059	[signature]	18/10/11	08:30	
			Pascal Kheol / Pascal Kheol	2018/10/11	12:13	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: See ACTR
Custody Seal: Present [X] Yes; Intact [X] Yes

* 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

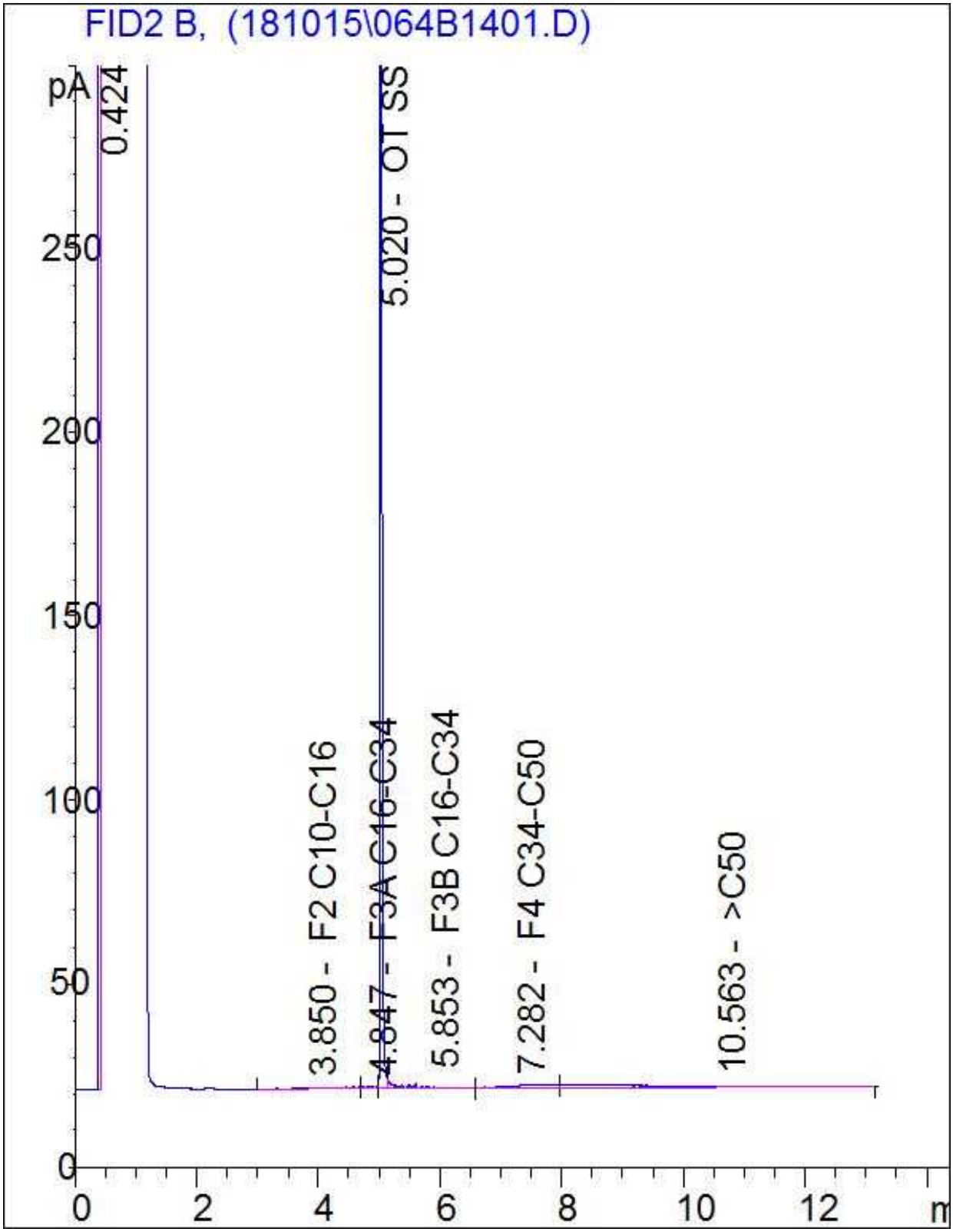
5/4/3 3/2/3 ~~Refer to ACTR~~ MWH 31563
1/3/4 URE 2018/10/11

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam Job #: B8Q7982
Report Date: 2018/10/18
Maxxam Sample: HZJ522

Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20181010-RD100

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

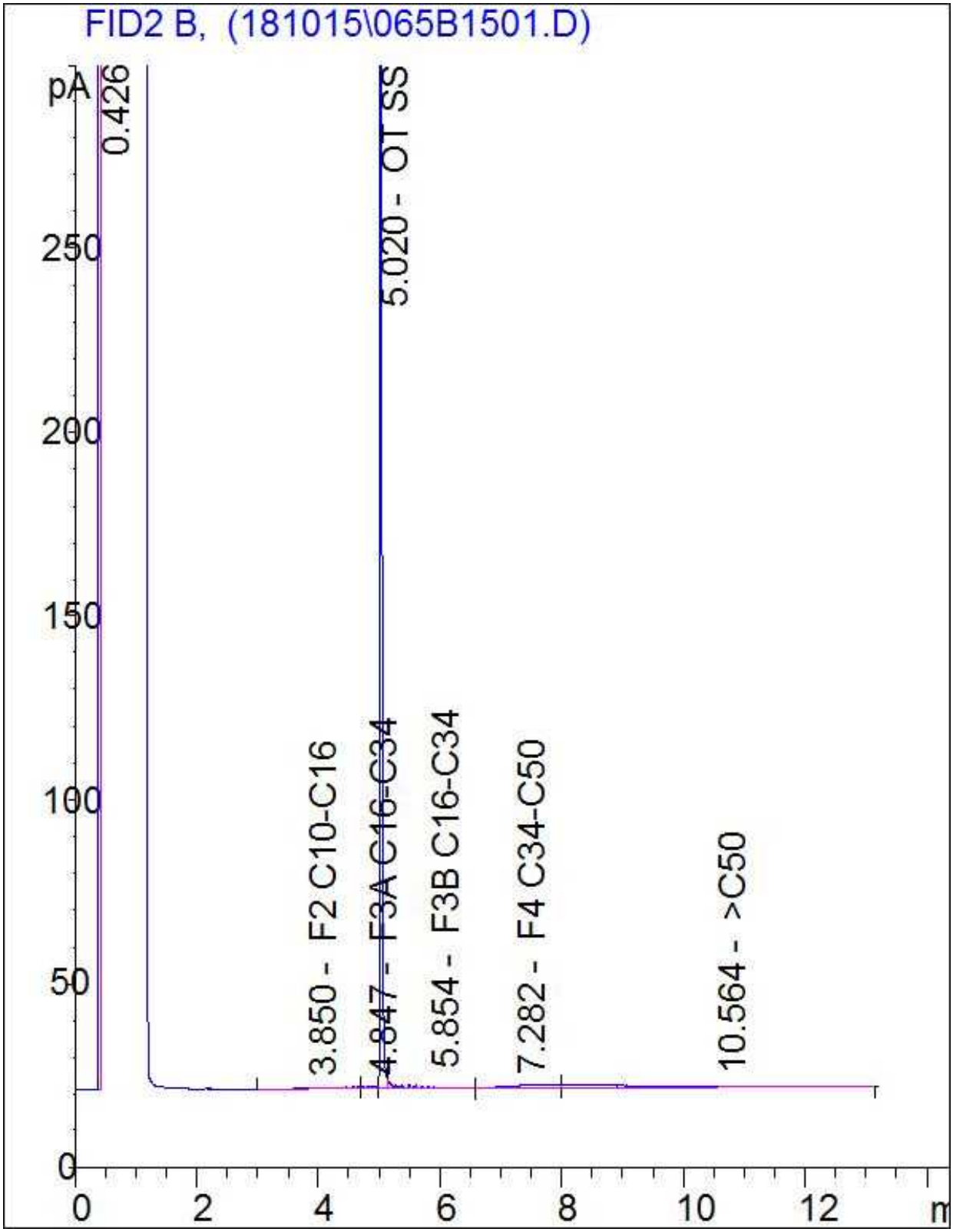


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B8Q7982
Report Date: 2018/10/18
Maxxam Sample: HZJ523

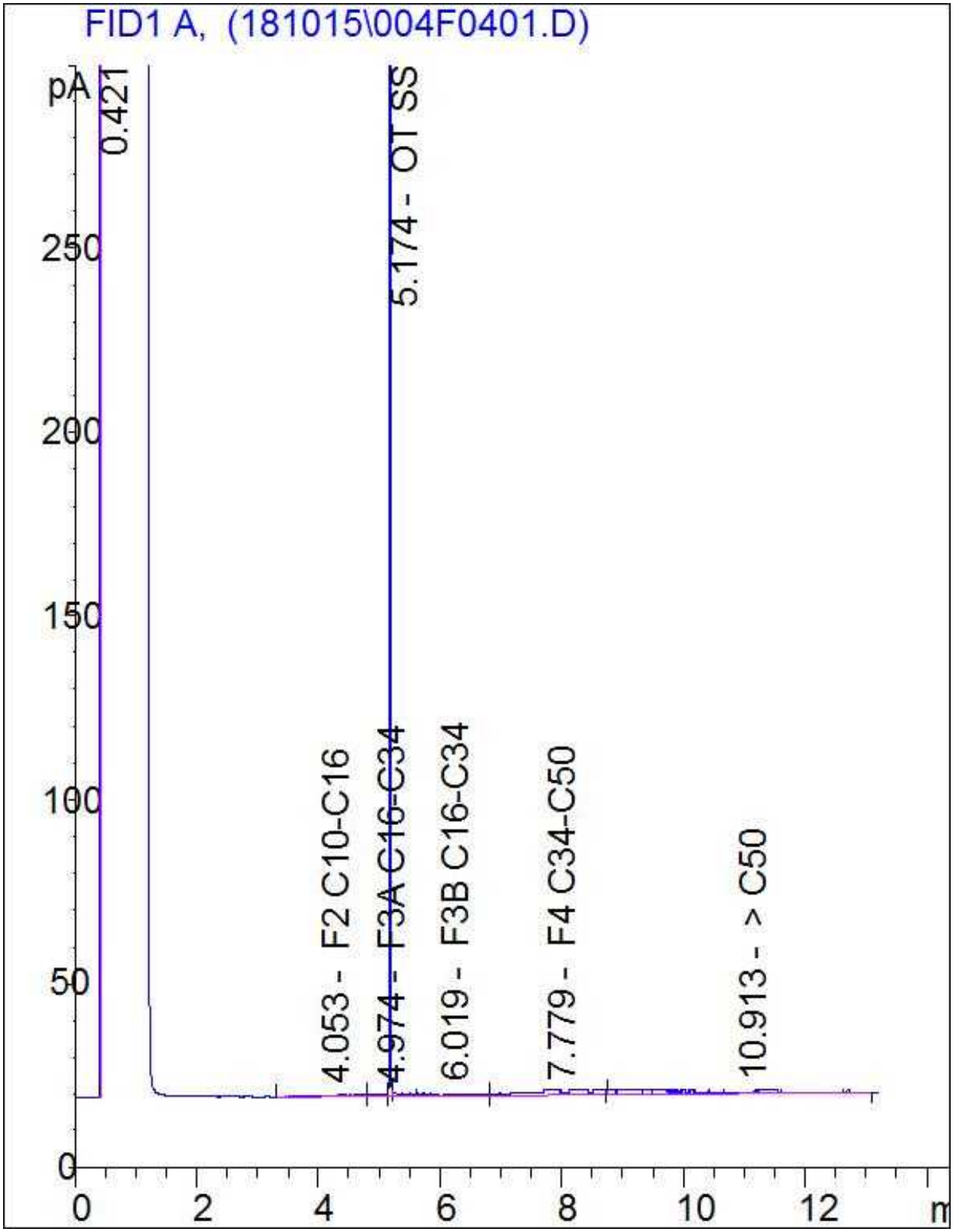
Stantec Consulting Ltd
Client Project #: 160900764
Project name: CLARINGTON TS - SURFACE WATER
Client ID: WS-160900764-20181010-RD101

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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