PROJECT NO. 6574

REPORT TO

THE ROSSEAU GROUP

ON

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

2411, 2421 AND 2433 NEW STREET
BURLINGTON, ONTARIO

CONDUCTED BY:

S2S Environmental Inc.

1099 KINGSTON ROAD, SUITE 260
PICKERING, ONTARIO
L1V 1B5

Tel: (416) 410-4333
Fax: (416) 410-4088
www.s2se.com

JANUARY 31, 2017

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1.0 INTRODUCTION

S2S Environmental Inc. (S2S) was retained by The Rosseau Group (the Client) to conduct a Phase II Environmental Site Assessment (ESA) at the residential and commercial property located at 2411, 2421 and 2433 New Street in Burlington, Ontario (Subject Property). For the purposes of this report, we have referenced New Street adjacent to the south of the Subject property, to be generally oriented in an east-west direction.

At the time of the site reconnaissance, the Subject Property consisted of three single-storey commercial buildings (Buildings A to C) and one six-storey residential condominium building (Building D) (collectively, the Subject Buildings). Buildings A, B and C were located on the central, northeast and southeast portions of the Subject Property, and were reportedly constructed in approximately the early 1970s; while Building D was located on the west portion of the Subject Property was reportedly constructed in approximately 1965. A site plan is provided as Drawing No. 1 in Appendix A.

The purpose of this Phase II ESA was to investigate the following actual and potential environmental concerns as indicated by a Phase I ESA report dated January 31, 2017 by S2S.

Based on the 2017 S2S Phase I ESA, the following actual and potential environmental concerns were noted:

- A previous environmental investigation completed at the Subject Property by Terraprobe Inc. (Terraprobe) in 2011 found concentrations of tetrachloroethylene (PCE) in groundwater above the current applicable Ontario Ministry of the Environment and Climate Change (MOECC) Table 3 Standards and concentrations of trichloroethylene (TCE) in groundwater at the current applicable MOECC Table 3 Standards. These contaminant impacts were suspected of originating from a dry cleaning facility (Parker's Cleaners) which occupied the neighbouring property (480 Guelph Line), approximately 40 m northeast of the Subject Property, from approximately the late 1950s to the present;

- A suspect historical dry cleaning facility (Deluxe Cleaners) reportedly occupied Building A on the Subject Property in approximately 1973. It was unknown if this dry cleaning facility performed dry cleaning operations on the Subject Property;

- An automobile service garage occupied the neighbouring property (490 Guelph Line), approximately 70 m northeast of the Subject Property, from approximately the late 1950s to the present;

- According to the MOECC Hazardous Waste Information Network (HWIN) (December, 2016) list, an adjacent property (466 Guelph Line) to the east of the Subject Property was listed as a generator of halogenated solvents (waste class 241 L);

- Various Retail Fuel Outlets (RFOs) (including Petro Canada, BP Oil, Roseland Supertest and Lakeshore Motors) occupied the adjacent property (currently 458 Guelph Line and historically including 2439 New Street) to the east of the Subject Property from approximately the early 1950s to the present;

- According to a 1971 Fire Insurance Plan (FIP), an historical automobile service garage occupied the neighbouring property (2440 New Street), located approximately 40 m southeast (across New Street) of the Subject Property, at that time; and

- At the time of the 2017 Phase I ESA site visits, vent and fill pipes potentially associated with an Underground Storage Tank (UST) were observed outside the exterior northeast corner of the building located at 2418 New Street, approximately 40 m south (across New Street) of the Subject Property.

The scope of work for the Phase II ESA was discussed with and approved by the Client on November 30, 2016. We understand that this Phase II ESA was requested by the Client for mortgage financing/due diligence purposes only, and that the Client will rely upon the contents of this report for their purposes in that regard.

It should be noted that this Phase II ESA report has not been completed in accordance with the requirements of the O. Reg. 153/04 (including amendments up to O. Reg. 333/13) – Records of Site Condition (RSC), and therefore cannot be used for the purposes of filing a RSC in the Environmental Site Registry maintained by the MOECC.

2.0 SUBSURFACE INVESTIGATION METHODOLOGY

2.1 Borehole Investigation

The investigation methodology was conducted in general accordance with the Ontario Regulation (O.Reg.) 153/04 (including amendments up to O. Reg. 333/13) Records of Site Condition, Part XV.1 of the Environmental Protection Act (EPA) (referred to as Amended O.Reg. 153/04), the MOECC *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, December 1996 document (MOECC Sampling Guideline), and S2S standard field procedures (collectively referred to as Standard Protocols).

S2S retained Profile Drilling (Profile) of Mississauga, Ontario to advance five boreholes (BH1 to BH4 and BH2B) at the Subject Property on January 5 and 6, 2017 to depths ranging from approximately 4.6 meters below ground surface (m bgs) in BH2B to approximately 6.5 m bgs in BH2. The approximate borehole locations are shown on Drawing No. 1 in Appendix A.

The boreholes were drilled using a track-mounted AMS Powerprobe 9700 VTR-PRO drill rig, equipped with 127 mm solid stem augers. Soil samples were obtained at regular depth intervals using dedicated 1.2 m dual tube sampling equipment. Subsurface conditions encountered in the boreholes were logged by S2S personnel at the time of drilling. Soil

samples were recovered from the boreholes at regular intervals, visually classified, and collected in laboratory prepared bottles, preserved at approximately 1°C and submitted for laboratory analyses. It should be noted that Terraprobe completed a soil and groundwater investigation (report dated August 31, 2011) which included the completion of 2 boreholes and monitoring wells in a nested configuration (MW2421S and MW2421D) in June, 2011 using a CME 75 drill rig equipped with solid and hollow stem augers and split spoon samplers on the Subject Property.

A portion of each soil sample was placed in a disposable plastic bag and analyzed in the field for petroleum derived headspace vapour concentrations (where possible) using an RKI Model Eagle 2 portable gas monitor equipped with a dual sensor for hydrocarbons (i.e. in the ppm and LEL range) and for volatile compounds (i.e. photo-ionization detector [PID] sensor in the ppm range). The hydrocarbon sensor was set to methane elimination mode and calibrated with hexane (for petroleum-derived vapours) and the PID sensor was calibrated with isobutylene (for solvent-derived vapours). Borehole logs are included in Appendix B.

2.2 Monitoring Well Installation

BH1 to BH4 and BH2B were completed as monitoring wells to facilitate groundwater monitoring and sampling. Monitoring wells were installed by Profile using a track-mounted AMS Powerprobe 9700 VTR-PRO drill rig, equipped with 127 mm hollow stem augers. Well materials were dedicated to their respective monitoring wells to prevent cross-contamination. The monitoring wells consisted of a 50 mm (2 inch) diameter PVC riser pipe fitted with a 50 mm diameter threaded PVC well screen (10 slotted, 10 feet in length). The annuli of the monitoring wells were filled with silica sand around the well screen (to approximately 0.3 m above the top of the well screen), with the remainder of the well being sealed with hydrated Bentonite pellets. The wells were completed with a metal casing with cover, flush with existing grade. The five newly installed monitoring wells (BH1 to BH4 and BH2B) were installed to depths ranging from approximately 4.6 m below grade surface (bgs) (in BH2B) to approximately 6.5 m bgs (in BH2).

On January 9 and 10, 2017, the newly installed monitoring wells were monitored for groundwater levels and for the presence of Light and Dense Non Aqueous Phase Liquids (LNAPL/DNAPL) accumulations using a Heron H.O1L Interface Probe. Prior to the collection of groundwater samples, the monitoring wells were developed using surge blocks and purged using dedicated PVC bailers until a minimum of three well volumes was removed.

It should be noted that Terraprobe's hydrogeological investigation (report dated August 21, 2011) included the installation of two monitoring wells in a nested configuration (MW2421D and MW2421S). These wells were also monitored by S2S for groundwater levels and for the presence of LNAPL/DNAPL accumulations using a Heron H.O1L Interface Probe on January 4, 9 and 10, 2017, and the two wells were developed using a surge block and purged until a minimum of three well volumes was removed (from the monitoring wells in MW2421D and MW2421S) on January 4, 2017.

The groundwater samples were collected in accordance with Standard Protocols, placed in laboratory prepared bottles, preserved at approximately 2°C and submitted for laboratory analyses.

2.3 Site Condition Standards

The Subject Property is not considered to be an environmentally sensitive site based on the following factors: (1) the Subject Property is neither located within an area of natural significance nor adjacent to such an area, as defined in Section 1 of *O. Reg. 153/04* (including amendments up to *O. Reg. 333/13*); and (2) the subsurface soil pH is within a range of 5 to 11.

In accordance with the requirements of Amended *O.Reg.153/04*, based on the expected use of the site (Residential), the results of grain size analyses (41%, 55% and 57% medium and coarse grained) and the laboratory results of the pH analysis in soil (pH was measured at 7.27 to 7.82), S2S determined that the appropriate standards for this site would be the:

- *Soil, Ground Water and Sediment Standards* for Use Under Part XV.1 of the Environmental Protection Act, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for Residential/Parkland/Institutional property use and coarse textured soils – MOECC Standards).

A flowchart showing the basic framework for determining the appropriate site condition standards is included as Drawing No. 2 in Appendix C.

2.4 Laboratory Analyses

Soil

Eight soil samples (at least one from each borehole) based on headspace vapour concentrations, visual and/or olfactory considerations, and relative location to the expected shallow groundwater table were recovered and submitted for laboratory analyses for concentrations of selected VOCs and/or PHC fractions F1 to F4. In addition, eight soil samples were collected from BH1 to BH4, and submitted for laboratory analysis for concentrations of selected metals and inorganics. Finally, three soil samples (one from each of BH1, BH2 and BH3) were submitted for laboratory analysis of selected PAHs. It should be noted that in addition to the above; one duplicate sample for each parameter was submitted.

Three additional soil samples from BH1, BH2 and BH3 (each at a depth of approximately 3.7 m bgs), based on representative soil stratigraphy and anticipated potential zone of impact, was submitted to Maxxam Analytics Inc. (Maxxam) of Mississauga, Ontario for laboratory analysis of grain size.

Groundwater

Seven groundwater samples recovered from the monitoring wells in MW2421D, MW2421S, BH1 to BH4 and BH2B were submitted for laboratory analyses for concentrations of selected VOCs. Five additional groundwater samples recovered from the monitoring wells in MW2421S, BH1, BH2B, BH3 and BH4 were submitted for laboratory analysis for concentrations of PHCs and BTEX. Five additional groundwater samples recovered from the monitoring wells in MW2421S, BH1, BH2B, BH3 and BH4 were submitted for laboratory analysis for concentrations of selected metals and inorganics. It should be noted that in addition to the above; one duplicate sample for each parameter was submitted, along with a laboratory-prepared trip blank for selected VOC analysis.

The above noted analyses on the soil and groundwater samples were conducted by Maxxam of Mississauga, Ontario, unless noted otherwise. Maxxam is accredited by the Standards Council of Canada (SCC) in co-operation with The Canadian Association for Laboratory Accreditation Inc. (CALA).

3.0 RESULTS OF THE PHASE II ESA

3.1 Stratigraphy

The stratigraphic information recorded during the investigation is presented on the borehole logs included in Appendix B Based on conditions encountered in the boreholes, visual observations, and the results of laboratory grain size analyses, the subsoils at the Subject Property generally consisted of granular fill overlying fine sand to a maximum depth of 5.5 m bgs. Assumed bedrock was encountered in BH1, BH2 and BH4 from a minimum depth of approximately 5.3 m bgs (in BH2) to a maximum depth of approximately 6.5 m bgs (also in BH2).

3.2 Groundwater

Based on the groundwater level data obtained on January 9, 2017, the depth to groundwater ranged from approximately 2.3 m bgs in the monitoring well in BH3 to approximately 2.8 m bgs in the monitoring well in BH1. Groundwater elevation has not been determined as of writing of this report, however it is assumed that groundwater flows southeast, towards Lake Ontario.

3.3 Subsurface Non-Aqueous Phase Liquids (NAPLs)

LNAPL/DNAPLs were not encountered in the boreholes during drilling on January 5 and 6, 2017, and evidence of LNAPL/DNAPLs were not encountered during monitoring, purging (development) and sampling of the monitoring wells on January 4, 6, 9 and 10.

3.4 Subsurface Vapour Concentrations

Headspace vapour concentrations (HSVCs) measured in the soil samples recovered during drilling are presented on the borehole logs in Appendix B. As shown, HSVCs in the soil samples recovered from the boreholes were relatively low and did not exceed 10 parts per million (ppm) as Isobutylene or 100 ppm as Hexane.

There are no regulatory criteria for PHC- or solvent-derived soil vapour concentrations; however, soil vapour concentrations are often used as a field screening tool to practically identify soils impacted with combustible liquids or PHCs. Elevated soil vapour concentrations, typically in the LEL range, are generally indicative of the presence of volatile combustible products i.e. gasoline, methane, solvents, and to a lesser extent diesel and fuel oil. It should be noted that elevated soil vapour concentrations may also be associated with the presence of moisture, microbial activity, or decaying organic matter, especially in the absence of visual or olfactory evidence of impact.

3.5 Laboratory Analytical Results

Soil

The laboratory analytical results for selected VOCs, PHC fractions F1 to F4, selected metals and inorganics and selected PAHs for the submitted soil samples are presented in Tables 1 to 4 at the end of this report. As indicated, the soil concentration of tetrachloroethylene in sample BH2-10 was found to exceed the applicable MOECC Standard (i.e. 1.1 ppm vs. a Regulatory Standard of 0.28 ppm). All other reported concentrations were below the applicable MOECC Standards.

Groundwater

The laboratory analytical results for selected VOCs, PHC fractions F1 to F4, selected metals and inorganics and selected PAHs for the submitted groundwater samples are presented in Tables 4 to 6 at the end of this report. As indicated, the groundwater concentrations of multiple VOC parameters in samples MW2421D, DUP1 (MW2421D), BH1, BH2, BH2B, BH3 and BH4 were found to exceed the applicable MOECC Standards. All other reported concentrations were below the applicable MOECC Standards.

Laboratory Quality Assurance/Quality Control

Maxxam identified the following QA/QC issues with respect to the noted soil samples:

- "Sample DSJ819 [BH2-2] and Sample DSJ824 [BH3-2]: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio." The maximum ratio is well below the applicable MOECC Standard for SAR. As such, it is our opinion that this issue does not affect the conclusions derived from this analysis.

- "Sample DST558 [BH2]: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria or to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report." All raised detection limits for this sample were below the applicable MOECC Standards. As such, it is our opinion that this issue does not affect the conclusions derived from this analysis.
- "Sample DST559 [BH2B] : F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis and the contamination in the F1 range is mainly due to a single peak eluted at 5.81 Min, not a hydrocarbon mix." While the concentration of PHC F1-BTEX in this sample is the highest detected on the Subject Property, it is still well below the MOECC Standard. As such, it is our opinion that this issue does not affect the conclusions derived from this analysis.

The laboratory certificate of analyses for the soil and groundwater analytical results with the laboratory QA/QC are included in Appendix D.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The Limited Phase II ESA consisted of advancing five boreholes (BH1 to BH4 and BH2B) completed as monitoring wells at the Subject Property to investigate the potential environmental concerns as identified in the recently completed Phase I ESA. Representative soil and groundwater samples were collected and submitted for laboratory analysis of concentrations of selected VOCs, PHC fractions F1 to F4, selected metals and inorganics and/or selected PAHs.

Based on the results of the laboratory analyses, the soil concentration of tetrachloroethylene in sample BH2-10 was found to exceed the applicable MOECC Standard and the groundwater concentrations of multiple VOC parameters in samples MW2421D, DUP1 (MW2421D), BH1, BH2, BH2B, BH3 and BH4 were found to exceed the applicable MOECC Standards. Based on the results of this investigation, it is apparent that there may be wide-spread contamination of VOCs at the Subject Property and that the source of this contamination may be from an offsite activity.

It is recommended that the extent of the contamination be determined and a remedial action plan be completed to address the subsurface contamination at the Subject Property.

5.0 CLOSURE

This report has been prepared for the sole benefit of The Rosseau Group (the Client) and its subsidiaries and affiliates.

The report may not be relied upon by any other person or entity without the express written consent of S2S Environmental Inc. (S2S) and the Client. Any use that a party makes of this

report, or any reliance on decisions made based on it, is the responsibility of such parties. S2S accepts no responsibility for damages, if any, suffered by any party as a result of decisions made or actions based on this report.

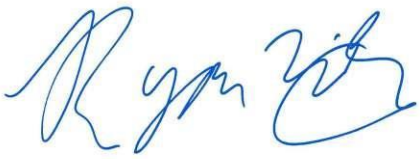
S2S makes no other representation whatsoever, including those concerning the legal significance of its findings or as to the other legal matters addressed incidentally in this report, including but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation. These interpretations may change over time, thus the Client should review such issues with appropriate legal counsel.

An environmental site characterization is a limited sampling of a site. The conclusions given herein are based on information gathered at the specific borehole locations and can only be extrapolated to an undefined limited area around these locations. The extent of the limited area depends on the soil and groundwater conditions, as well as the history of the site reflecting natural, construction, and other activities. In addition, analyses have been carried out for a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, S2S Environmental Inc. cannot warrant against undiscovered environmental liabilities. No other warranty or representation, either expressed or implied, is included or intended in this report.

Should any conditions at the site be encountered which differ from those at the borehole locations and/or additional site information become available, S2S requests that this information be brought to its attention so that it may re-assess the conclusions presented herein. It should also be noted that current environmental Regulations, Guidelines, Policies, Standards, Protocols and Objectives are subject to change, and such changes, when put into effect, could alter the conclusions and recommendations noted throughout this report.

Respectfully submitted,

S2S ENVIRONMENTAL INC.





Ryan Wills, B.A.Sc., EIT
Project Scientist
rwills@s2se.com

Riyaz Punjani, P.Eng.
Technical Reviewer
rpunjani@s2se.com

Distribution: (1 PDF Copy) – Mr. Charles Mady (The Rosseau Group)

Table 1
Soil Analytical Results for Selected VOCs
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/g or ppm)

Sample ID	BH1-9	BH2-10	BH3-9	DUP4 (BH3-9)	BH4-9	MOECC Standard[1]
Sample Date	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 06-17**	
Sample Depth (m bgs)	**4.9 – 5.5**	**5.2 – 5.3**	**4.6 – 4.9**	**4.6 – 4.9**	**4.9 – 5.5**	
Acetone	<0.50	<0.50	<0.50	<0.50	<0.50	16
Benzene	<0.020	<0.020	<0.020	<0.020	<0.020	0.21
Bromodichloromethane	<0.050	<0.050	<0.050	<0.050	<0.050	13
Bromoform	<0.050	<0.050	<0.050	<0.050	<0.050	0.27
Bromomethane	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Carbon Tetrachloride	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Chlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	2.4
Chloroform	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Dibromochloromethane	<0.050	<0.050	<0.050	<0.050	<0.050	9.4
1,2-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	3.4
1,3-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	4.8
1,4-Dichlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	0.083
Dichlorodifluoromethane	<0.050	<0.050	<0.050	<0.050	<0.050	16
1,1-Dichloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	3.5
1,2-Dichloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
1,1-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Cis-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	<0.050	3.4
Trans-1,2-Dichloroethylene	<0.050	<0.050	<0.050	<0.050	<0.050	0.084
1,2-Dichloropropane	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
1,3-Dichloropropylene (cis + trans)[2]	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Ethylbenzene	<0.020	<0.020	<0.020	<0.020	<0.020	2
Ethylene Dibromide	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Hexane(n)	<0.050	<0.050	<0.050	<0.050	<0.050	2.8
Methyl Ethyl Ketone	<0.50	<0.50	<0.50	<0.50	<0.50	16
Methyl Isobutyl Ketone	<0.50	<0.50	<0.50	<0.50	<0.50	1.7
Methyl-t-Butyl Ether	<0.050	<0.050	<0.050	<0.050	<0.050	0.75
Methylene Chloride	<0.050	<0.050	<0.050	<0.050	<0.050	0.1
Styrene	<0.050	<0.050	<0.050	<0.050	<0.050	0.7
1,1,1,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	0.058
1,1,2,2-Tetrachloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Tetrachloroethylene	<0.050	**1.1**	<0.050	<0.050	0.061	0.28
Toluene	<0.020	<0.020	<0.020	<0.020	<0.020	2.3
1,1,1-Trichloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	0.38
1,1,2-Trichloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Trichloroethylene	<0.050	<0.050	<0.050	<0.050	<0.050	0.061
Trichlorofluoromethane	<0.050	<0.050	<0.050	<0.050	<0.050	4
Vinyl Chloride	<0.020	<0.020	<0.020	<0.020	<0.020	0.02
Total Xylenes	<0.020	<0.020	<0.020	<0.020	<0.020	3.1

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for Residential/Parkland/Institutional Property Use, coarse textured soils).
2 – Calculated parameter from the laboratory certificate of analyses.
BOLD – Parameter exceeds applicable MOECC Standard

Table 2
Soil Analytical Results for PHC Fractions F1 to F4 and BTEX
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/g or ppm)

Sample ID	**BH1-7**	**BH2-4**	**BH3-4**	**BH4-5**	**DUP3 (BH4-5)**	**MOECC Standard[1]**
Sample Date	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 06-17**	**Jan 06-17**	
Sample Depth (m bgs)	**3.7 – 4.3**	**1.8 – 2.4**	**1.8 – 2.4**	**2.4 – 3.0**	**2.4 – 3.0**	
Benzene	<0.020	<0.020	<0.020	<0.020	<0.020	0.21
Ethylbenzene	<0.020	<0.020	<0.020	<0.020	<0.020	2
Toluene	<0.020	<0.020	<0.020	<0.020	<0.020	2.3
Total Xylenes	<0.040	<0.040	<0.040	<0.040	<0.040	3.1
PHC F1[2] (C6-C10 Hydrocarbons)	<10	<10	<10	<10	<10	55
PHC F2 (C10-C16 Hydrocarbons)	<10	<10	<10	<10	<10	98
PHC F3 (C16-C34 Hydrocarbons)	<50	<50	<50	<50	<50	300
PHC F4 (C34-C50 Hydrocarbons)	<50	<50	<50	<50	<50	2,800

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for Residential/Parkland/Institutional Property Use, coarse textured soils).

2 - F1 fraction of petroleum hydrocarbons does not include BTEX.

Table 3
Soil Analytical Results for Selected Metals and Inorganics
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/g or ppm)

Sample ID	BH1-2	DUP1 (BH1-2)	BH1-7	BH2-2	BH2-4	MOECC Standard[1]
Sample Date	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	
Sample Depth (m bgs)	**0.5 – 1.2**	**0.5 – 1.2**	**3.7 – 4.3**	**0.6 – 1.2**	**1.8 – 2.4**	
Antimony	<0.20	<0.20	<0.20	<0.20	<0.20	7.5
Arsenic	1.2	1.2	1.8	4.1	1.1	18
Barium	20	17	13	82	6.6	390
Beryllium	0.2	0.2	0.23	0.51	<0.20	4
Boron (Hot Water Ext)	0.18	0.16	-	0.096	-	1.5
Boron (Total)	<5.0	<5.0	5.1	6.3	<5.0	120
Cadmium	<0.10	<0.10	<0.10	0.13	<0.10	1.2
Chromium	8	7.1	6.8	14	4.9	160
Chromium (VI)	<0.2	<0.2	-	<0.2	-	8
Cobalt	2.4	2.4	4.1	8.1	1.8	22
Copper	6.4	5.7	12	12	6.6	140
Free Cyanide	<0.01	<0.01	-	<0.01	-	0.051
Lead	5.7	4.7	4.2	10	2.5	120
Mercury	<0.050	<0.050	-	<0.050	-	0.27
Molybdenum	<0.50	<0.50	<0.50	0.58	<0.50	6.9
Nickel	4.8	5	8.2	17	3.9	100
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	2.4
Silver	<0.20	<0.20	<0.20	<0.20	<0.20	20
Thallium	<0.050	<0.050	<0.050	0.078	<0.050	1
Uranium	0.25	0.22	0.3	0.46	0.27	23
Vanadium	23	16	13	25	13	86
Zinc	17	17	20	35	11	340
Conductivity (in mS/cm)	0.17	0.18	-	0.16	-	0.7
pH	7.57	7.56	7.82	7.53	-	N/A
SAR	1.9	1.7	-	0.25	-	5

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for Residential/Parkland/Institutional Property Use, coarse textured soils).

N/A – no Standard derived

Table 3 (Continued)
Soil Analytical Results for Selected Metals and Inorganics
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/g or ppm)

Sample ID	BH3-2	BH3-4	BH4-2	BH4-5	MOECC Standard[1]
Sample Date	Jan 05-17	Jan 05-17	Jan 06-17	Jan 06-17	
Sample Depth (m bgs)	0.6 – 1.2	1.8 – 2.4	0.6 – 1.2	2.4 – 3.0	
Antimony	0.27	<0.20	<0.20	<0.20	7.5
Arsenic	5	1.4	1.7	1.4	18
Barium	29	9.8	17	8.5	390
Beryllium	0.25	<0.20	0.22	<0.20	4
Boron (Hot Water Ext)	0.16	-	0.058	-	1.5
Boron (Total)	<5.0	<5.0	<5.0	<5.0	120
Cadmium	0.23	<0.10	<0.10	<0.10	1.2
Chromium	9.2	6.1	9.9	5.7	160
Chromium (VI)	<0.2	-	0.3	-	8
Cobalt	2.9	2.6	3.5	2.3	22
Copper	14	9.6	7.5	8.5	140
Free Cyanide	<0.01	-	<0.01	-	0.051
Lead	36	3.3	4.4	3.1	120
Mercury	0.071	-	<0.050	-	0.27
Molybdenum	<0.50	<0.50	<0.50	<0.50	6.9
Nickel	6.8	5.3	5.7	4.5	100
Selenium	<0.50	<0.50	<0.50	<0.50	2.4
Silver	<0.20	<0.20	<0.20	<0.20	20
Thallium	0.052	<0.050	<0.050	<0.050	1
Uranium	0.38	0.34	0.3	0.33	23
Vanadium	19	15	29	14	86
Zinc	40	13	12	11	340
Conductivity (in mS/cm)	0.15	-	0.087	-	0.7
pH	7.34	-	7.27	-	N/A
SAR	0.25	-	2	-	5

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for Residential/Parkland/Institutional Property Use, coarse textured soils).

N/A – no Standard derived

Table 4
Soil Analytical Results for Selected PAHs
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/g or ppm)

Sample ID	BH1-3	BH2-3	DUP2 (BH2-3)	BH3-3	BH4-3	MOECC Standard[1]
Sample Date	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 05-17**	**Jan 06-17**	
Sample Depth (m bgs)	**1.2 – 1.8**	**1.2 – 1.8**	**1.2 – 1.8**	**1.2 – 1.8**	**1.2 – 1.8**	
Acenaphthene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	7.9
Acenaphthylene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.15
Anthracene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.67
Benzo(a)anthracene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.5
Benzo(a)pyrene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.3
Benzo(b/j)fluoranthene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.78
Benzo(ghi)perylene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.6
Benzo(k)fluoranthene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.78
Chrysene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	7
Dibenzo(a,h)anthracene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.1
Fluoranthene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.69
Fluorene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	62
Indeno(1,2,3-cd)pyrene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.38
Methylnaphthalene, 2-(1-)[2]	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.99
Naphthalene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.6
Phenanthrene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	6.2
Pyrene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	78

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for Residential/Parkland/Institutional Property Use, coarse textured soils).

2 – Calculated parameter from the laboratory certificate of analyses.

Table 5
Groundwater Analytical Results for Selected VOCs
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/L or ppb)

Sample ID	MW2421D	DUP1 (MW2421D)	MW2421S	BH1	BH2	MOECC Standard[1]
Sample Date	**Jan 09-17**	**Jan 09-17**	**Jan 09-17**	**Jan 10-17**	**Jan 10-17**	
Acetone	<10	<10	<10	<10	<100	130,000
Benzene	<0.20	<0.20	<0.20	0.49	<2.0	44
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<5.0	85,000
Bromoform	<1.0	<1.0	<1.0	<1.0	<10	380
Bromomethane	<0.50	<0.50	<0.50	<0.50	<5.0	5.6
Carbon Tetrachloride	<0.20	<0.20	<0.20	<0.20	<0.20	0.79
Chlorobenzene	<0.20	<0.20	<0.20	<0.20	<2.0	630
Chloroform	<0.20	<0.20	<0.20	0.33	<2.0	2.4
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<5.0	82,000
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<5.0	4,600
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<5.0	9,600
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<5.0	8
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<10	4,400
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	<2.0	320
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	1.6
1,1-Dichloroethylene	<0.20	<0.20	<0.20	<0.20	<0.20	1.6
Cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	<0.50	1.6
Trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	<0.50	1.6
1,2-Dichloropropane	<0.20	<0.20	<0.20	<0.20	<2.0	16
1,3-Dichloropropylene (cis + trans)[2]	<0.50	<0.50	<0.50	<0.50	<5.0	5.2
Ethylbenzene	<0.20	<0.20	<0.20	<0.20	<2.0	2,300
Ethylene Dibromide	<0.20	<0.20	<0.20	<0.20	<0.20	0.25
Hexane(n)	<1.0	<1.0	<1.0	<1.0	<10	51
Methyl Ethyl Ketone	<10	<10	<10	<10	<100	470,000
Methyl Isobutyl Ketone	<5.0	<5.0	<5.0	<5.0	<50	140,000
Methyl-t-Butyl Ether	<0.50	<0.50	<0.50	<0.50	<5.0	190
Methylene Chloride	<2.0	<2.0	<2.0	<2.0	<20	610
Styrene	<0.50	<0.50	<0.50	<0.50	<5.0	1,300
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	3.3
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	3.2
Tetrachloroethylene	**220**	**220**	0.57	**2.6**	**3,200**	1.6
Toluene	<0.20	<0.20	<0.20	0.36	<2.0	18,000
1,1,1-Trichloroethane	<0.20	<0.20	<0.20	<0.20	<2.0	640
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	4.7
Trichloroethylene	**9.4**	**9.5**	<0.20	<0.20	**12**	1.6
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<5.0	2,500
Vinyl Chloride	<0.20	<0.20	<0.20	<0.20	<0.20	0.5
Total Xylenes	<0.20	<0.20	<0.20	0.26	<2.0	4,200

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for All Types of Property Use, coarse textured soils).
2 – Calculated parameter from the laboratory certificate of analyses.
BOLD – Parameter exceeds applicable MOECC Standard

Table 5 (Continued)
Groundwater Analytical Results for Selected VOCs
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/L or ppb)

Sample ID	BH2B	BH3	BH4	TRIP BLANK	MOECC Standard[1]
Sample Date	**Jan 10-17**	**Jan 09-17**	**Jan 10-17**	**Jan 10-17**	
Acetone	<10	<10	<10	<10	130,000
Benzene	<0.20	<0.20	0.4	<0.20	44
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	85,000
Bromoform	<1.0	<1.0	<1.0	<1.0	380
Bromomethane	<0.50	<0.50	<0.50	<0.50	5.6
Carbon Tetrachloride	<0.20	<0.20	<0.20	<0.20	0.79
Chlorobenzene	<0.20	<0.20	<0.20	<0.20	630
Chloroform	**9.3**	<0.20	1.1	<0.20	2.4
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	82,000
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	4,600
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	9,600
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	8
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	4,400
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	320
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	1.6
1,1-Dichloroethylene	<0.20	<0.20	<0.20	<0.20	1.6
Cis-1,2-Dichloroethylene	<0.50	**1.9**	<0.50	<0.50	1.6
Trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	1.6
1,2-Dichloropropane	<0.20	<0.20	<0.20	<0.20	16
1,3-Dichloropropylene (cis + trans)[2]	<0.50	<0.50	<0.50	<0.50	5.2
Ethylbenzene	<0.20	<0.20	<0.20	<0.20	2,300
Ethylene Dibromide	<0.20	<0.20	<0.20	<0.20	0.25
Hexane(n)	<1.0	<1.0	<1.0	<1.0	51
Methyl Ethyl Ketone	<10	<10	<10	<10	470,000
Methyl Isobutyl Ketone	<5.0	<5.0	<5.0	<5.0	140,000
Methyl-t-Butyl Ether	<0.50	<0.50	<0.50	<0.50	190
Methylene Chloride	<2.0	<2.0	<2.0	<2.0	610
Styrene	<0.50	<0.50	<0.50	<0.50	1,300
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	3.3
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	3.2
Tetrachloroethylene	**350**	**1.8**	**2.4**	<0.20	1.6
Toluene	<0.20	<0.20	0.26	<0.20	18,000
1,1,1-Trichloroethane	<0.20	<0.20	<0.20	<0.20	640
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	4.7
Trichloroethylene	0.9	0.68	<0.20	<0.20	1.6
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	2,500
Vinyl Chloride	<0.20	**1.3**	<0.20	<0.20	0.5
Total Xylenes	<0.20	<0.20	0.21	<0.20	4,200

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for All Types of Property Use, coarse textured soils).
2 – Calculated parameter from the laboratory certificate of analyses.
BOLD – Parameter exceeds applicable MOECC Standard

Table 6
Groundwater Analytical Results for PHC Fractions F1 to F4 and BTEX
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/L or ppb)

Sample ID	**MW2421S**	**DUP2 (MW2421S)**	**BH1**	**BH2B**	**MOECC Standard[1]**
Sample Date	**Jan 09-17**	**Jan 09-17**	**Jan 10-17**	**Jan 10-17**	
Benzene	<0.20	<0.20	0.49	<0.20	44
Ethylbenzene	<0.20	<0.20	<0.20	<0.20	2,300
Toluene	<0.20	<0.20	0.36	<0.20	18,000
Total Xylenes	<0.20	<0.20	0.26	<0.20	4,200
PHC F1[2] (C6-C10 Hydrocarbons)	<25	<25	<25	76	750
PHC F2 (C10-C16 Hydrocarbons)	<100	<100	<100	<100	150
PHC F3 (C16-C34 Hydrocarbons)	<200	<200	<200	<200	500
PHC F4 (C34-C50 Hydrocarbons)	<200	<200	<200	<200	500

Sample ID	**BH3**	**BH4**	**MOECC Standard[1]**
Sample Date	**Jan 09-17**	**Jan 10-17**	
Benzene	<0.20	0.4	44
Ethylbenzene	<0.20	<0.20	2,300
Toluene	<0.20	0.26	18,000
Total Xylenes	<0.20	0.21	4,200
PHC F1[2] (C6-C10 Hydrocarbons)	<25	<25	750
PHC F2 (C10-C16 Hydrocarbons)	<100	<100	150
PHC F3 (C16-C34 Hydrocarbons)	<200	<200	500
PHC F4 (C34-C50 Hydrocarbons)	<200	<200	500

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for All Types of Property Use, coarse textured soils).

2 - F1 fraction of petroleum hydrocarbons does not include BTEX.

Table 7
Groundwater Analytical Results for Selected Metals and Inorganics
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/L or ppb)

Sample ID	MW2421S	BH1	BH2B	BH3	MOECC Standard[1]
Sample Date	Jan 09-17	Jan 10-17	Jan 10-17	Jan 09-17	
Antimony	<0.50	<0.50	<0.50	<0.50	20,000
Arsenic	<1.0	<1.0	<1.0	<1.0	1,900
Barium	17	40	85	58	29,000
Beryllium	<0.50	<0.50	<0.50	<0.50	67
Boron	23	170	64	24	45,000
Cadmium	<0.10	<0.10	<0.10	<0.10	2.7
Chloride	42,000	70,000	58,000	20,000	2,300,000
Chromium	<5.0	<5.0	<5.0	<5.0	810
Chromium (VI)	<0.50	<0.50	<0.50	<0.50	140
Cobalt	<0.50	<0.50	<0.50	<0.50	66
Copper	<1.0	<1.0	2.2	<1.0	87
Free Cyanide	<1	<1	<1	<1	66
Lead	<0.50	<0.50	<0.50	<0.50	25
Mercury	<0.1	<0.1	<0.1	<0.1	0.29
Molybdenum	<0.50	2.1	<0.50	<0.50	9,200
Nickel	<1.0	1	<1.0	<1.0	490
Selenium	<2.0	<2.0	<2.0	<2.0	63
Silver	<0.10	<0.10	<0.10	<0.10	1.5
Sodium	23,000	53,000	11000	12,000	2,300,000
Thallium	<0.050	<0.050	<0.050	<0.050	510
Uranium	0.13	0.5	0.55	0.83	420
Vanadium	<0.50	<0.50	0.62	<0.50	250
Zinc	<5.0	<5.0	<5.0	<5.0	1,100

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for All Types of Property Use, coarse textured soils).

Table 7 (Continued)
Groundwater Analytical Results for Selected Metals and Inorganics
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/L or ppb)

Sample ID	**BH4**	**DUP4 (BH4)**	**MOECC Standard[1]**
Sample Date	**Jan 10-17**	**Jan 10-17**	
Antimony	<0.50	<0.50	20,000
Arsenic	<1.0	<1.0	1,900
Barium	50	48	29,000
Beryllium	<0.50	<0.50	67
Boron	200	200	45,000
Cadmium	<0.10	<0.10	2.7
Chloride	61,000	61,000	2,300,000
Chromium	<5.0	<5.0	810
Chromium (VI)	<0.50	<0.50	140
Cobalt	<0.50	<0.50	66
Copper	<1.0	<1.0	87
Free Cyanide	<1	<1	66
Lead	<0.50	<0.50	25
Mercury	<0.1	<0.1	0.29
Molybdenum	4.2	4	9,200
Nickel	<1.0	<1.0	490
Selenium	<2.0	<2.0	63
Silver	<0.10	<0.10	1.5
Sodium	110,000	100,000	2,300,000
Thallium	<0.050	<0.050	510
Uranium	0.86	0.82	420
Vanadium	<0.50	0.59	250
Zinc	<5.0	<5.0	1,100

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for All Types of Property Use, coarse textured soils).

Table 8
Groundwater Analytical Results for Selected PAHs
2411, 2421, 2433 New Street, Burlington, Ontario
(µg/L or ppb)

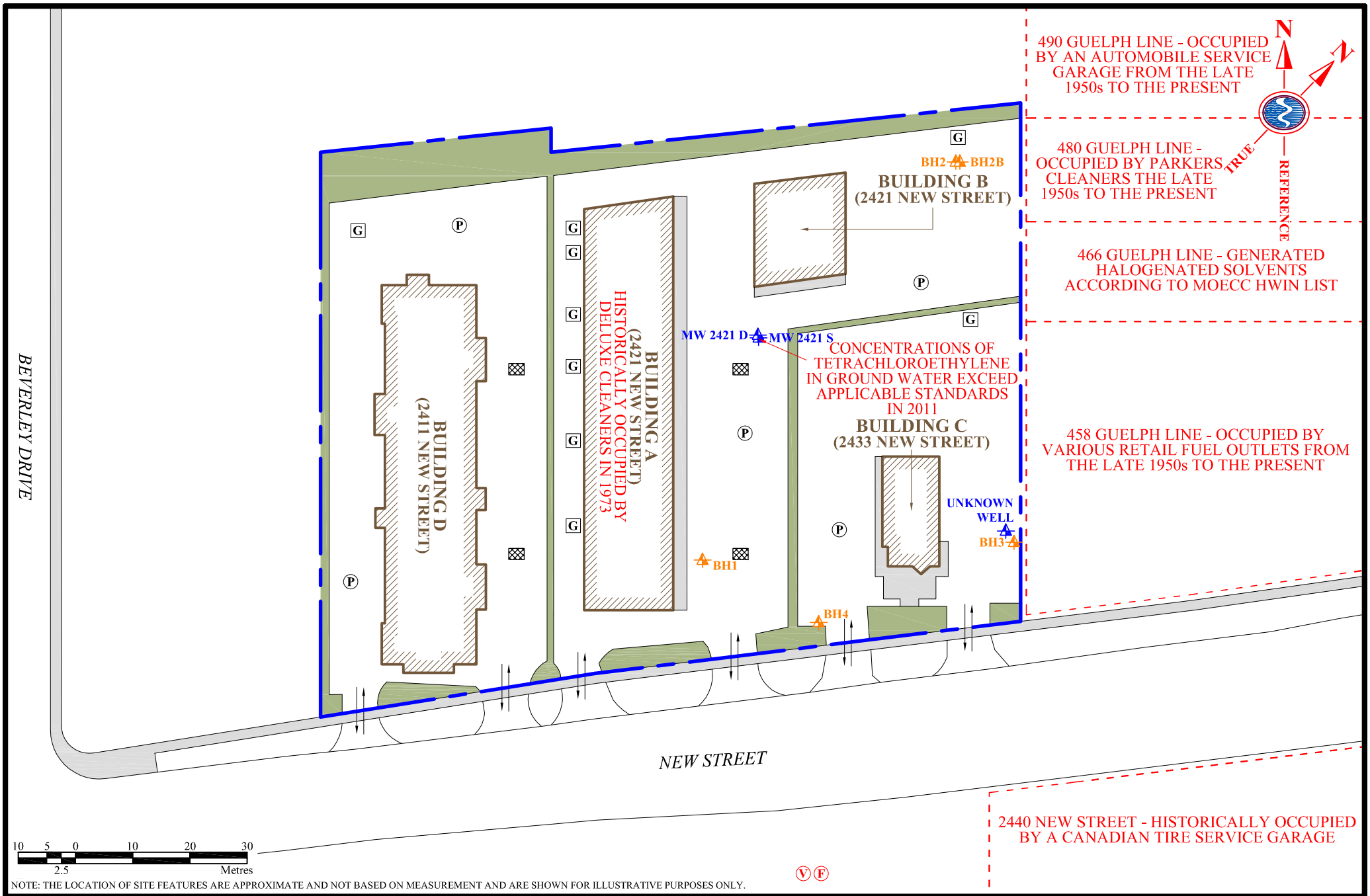
Sample ID	BH2B	BH3	DUP3 (BH3)	MOECC Standard[1]
Sample Date	**Jan 10-17**	**Jan 09-17**	**Jan 09-17**	
Acenaphthene	<0.050	<0.050	<0.050	600
Acenaphthylene	<0.050	<0.050	<0.050	1.8
Anthracene	<0.050	<0.050	<0.050	2.4
Benzo(a)anthracene	<0.050	<0.050	<0.050	4.7
Benzo(a)pyrene	<0.010	<0.010	<0.010	0.81
Benzo(b/j)fluoranthene	<0.050	<0.050	<0.050	0.75
Benzo(ghi)perylene	<0.050	<0.050	<0.050	0.2
Benzo(k)fluoranthene	<0.050	<0.050	<0.050	0.4
Chrysene	<0.050	<0.050	<0.050	1
Dibenzo(a,h)anthracene	<0.050	<0.050	<0.050	0.52
Fluoranthene	<0.050	<0.050	<0.050	130
Fluorene	<0.050	<0.050	<0.050	400
Indeno(1,2,3-cd)pyrene	<0.050	<0.050	<0.050	0.2
Methylnaphthalene, 2-(1-)[2]	<0.071	<0.071	<0.071	1,800
Naphthalene	<0.050	<0.050	<0.050	1,400
Phenanthrene	<0.030	<0.030	<0.030	580
Pyrene	<0.050	<0.050	<0.050	68

Notes: 1 – Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA, published April 15, 2011, Table 3 Full Depth Generic Site Condition Standards In a Non-Potable Ground Water Condition (for All Types of Property Use, coarse textured soils).

2 – Calculated parameter from the laboratory certificate of analyses.

APPENDIX A

DRAWINGS



NOTE: THE LOCATION OF SITE FEATURES ARE APPROXIMATE AND NOT BASED ON MEASUREMENT AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

LEGEND

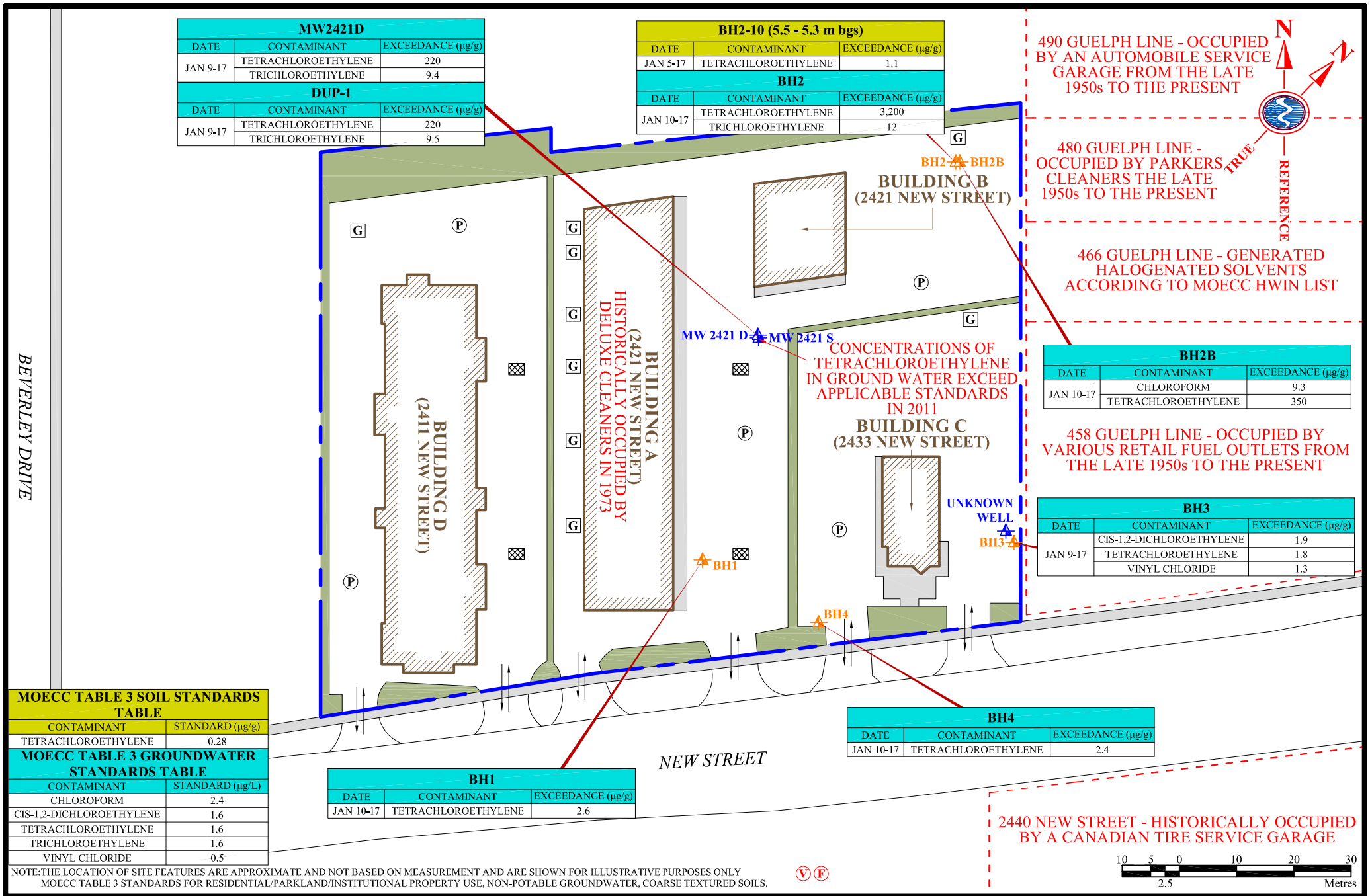
- ASSUMED PROPERTY LINE
- SITE ACCESS
- (P) ASPHALT PAVED PARKING AND DRIVEWAY
- (V) VENT PIPE
- (F) FILL PIPE
- [G] GARBAGE BIN
- APPROXIMATE LOCATION OF EXISTING MONITORING WELL
- SUBJECT BUILDING
- CONCRETE WALKWAY/ PAVED AREA
- LANDSCAPED AREA
- CATCH BASIN
- APPROXIMATE LOCATION OF MONITORING WELL

SITE PLAN SHOWING BOREHOLE/MONITORING WELL LOCATIONS

DRAWN BY: SW	DATE: JAN 31, 2017

S2S Environmental Inc.

SCALE:	
AS SHOWN	
PROJECT NO:	**SITE LOCATION:**
6574	2411, 2421 AND 2433 NEW STREET BURLINGTON, ONTARIO
DRAWING NO:	
1	



MW2421D		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 9-17	TETRACHLOROETHYLENE	220
	TRICHLOROETHYLENE	9.4

DUP-1		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 9-17	TETRACHLOROETHYLENE	220
	TRICHLOROETHYLENE	9.5

BH2-10 (5.5 - 5.3 m bgs)		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 5-17	TETRACHLOROETHYLENE	1.1

BH2		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 10-17	TETRACHLOROETHYLENE	3,200
	TRICHLOROETHYLENE	12

BH2B		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 10-17	CHLOROFORM	9.3
	TETRACHLOROETHYLENE	350

BH3		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 9-17	CIS-1,2-DICHLOROETHYLENE	1.9
	TETRACHLOROETHYLENE	1.8
	VINYL CHLORIDE	1.3

BH4		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 10-17	TETRACHLOROETHYLENE	2.4

BH1		
DATE	CONTAMINANT	EXCEEDANCE (µg/g)
JAN 10-17	TETRACHLOROETHYLENE	2.6

MOECC TABLE 3 SOIL STANDARDS TABLE	
CONTAMINANT	STANDARD (µg/g)
TETRACHLOROETHYLENE	0.28

MOECC TABLE 3 GROUNDWATER STANDARDS TABLE	
CONTAMINANT	STANDARD (µg/L)
CHLOROFORM	2.4
CIS-1,2-DICHLOROETHYLENE	1.6
TETRACHLOROETHYLENE	1.6
TRICHLOROETHYLENE	1.6
VINYL CHLORIDE	0.5

NOTE:THE LOCATION OF SITE FEATURES ARE APPROXIMATE AND NOT BASED ON MEASUREMENT AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY
MOECC TABLE 3 STANDARDS FOR RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, NON-POTABLE GROUNDWATER, COARSE TEXTURED SOILS.

Ⓥ Ⓕ

LEGEND

- ASSUMED PROPERTY LINE
- SITE ACCESS
- Ⓟ ASPHALT PAVED PARKING AND DRIVEWAY
- Ⓥ VENT PIPE
- Ⓕ FILL PIPE
- Ⓖ GARBAGE BIN
- APPROXIMATE LOCATION OF EXISTING MONITORING WELL
- SUBJECT BUILDING
- CONCRETE WALKWAY/ PAVED AREA
- LANDSCAPED AREA
- CATCH BASIN
- APPROXIMATE LOCATION OF MONITORING WELL

SITE PLAN SHOWING BOREHOLE/MONITORING WELL LOCATIONS AND SOIL AND GROUNDWATER EXCEEDANCES

DRAWN BY: SW | DATE: JAN 31, 2017

S2S Environmental Inc.

SCALE: AS SHOWN

PROJECT NO:	SITE LOCATION:	DRAWING NO:
6574	2411, 2421 AND 2433 NEW STREET BURLINGTON, ONTARIO	2

APPENDIX B

BOREHOLE LOGS

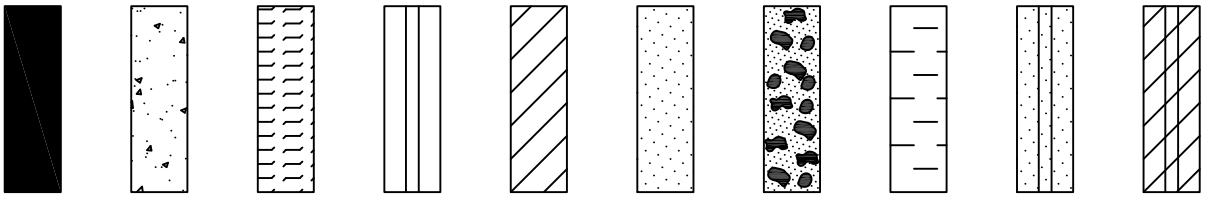
S2S Environmental Inc.

1099 Kingston Road, Suite 260, Pickering, Ontario, L1V 1B5
Telephone: (416) 410–4333 Facsimile: (416) 410–4088
www.s2se.com

BOREHOLE LOG / TEST PIT LOG INTERPRETATION GUIDE

STRATA PLOT

Strata plot symbolize the soil or bedrock description. They are combinations of the following basic symbols:



Asphalt | Concrete | Top Soil/ organics | Silt | Clay | Sand | Sand and Gravel | Bedrock | Sand and Silt | Silt and Clay

SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT LOGS

WATER LEVEL MEASUREMENT

Water Level, Piezometer or Standpipe

SAMPLE TYPE

SS	Split spoon sample
CS	Continuous Sampling
GS	Grab Sample
AS	Auger Sample

ABBREVIATIONS / TERMINOLOGY

Fill:	Materials not identified as deposited by natural geological processes
Topsoil:	Mixture of soil and humus capable supporting good vegetative growth
ppm:	Parts-per-million
LEL:	Lower explosive limit
HSVC:	Headspace vapour concentration
SSA:	Solid stem auger
HSA:	Hollow stem auger

SOIL DESCRIPTION AND DEFINITIONS

Soil description and classification are based on the Unified Soil Classification System (USCS) (ASTM D-2488), which classifies soils on the basis of engineering properties. The system divides soil into three major categories: (1) coarse grained, (2) fine-grained, and (3) highly organic. The soil is then subdivided based on either gradation or plasticity characteristics. This system provides a group symbol (e.g. SM) and group name (e.g. silty sand) for identification. The classification excludes particles larger than 76 mm.

Terminology describing materials outside the USCS, (e.g. particles larger than 75 nm, visible organic matter, construction debris), is based upon the proportion of these materials present and as described below in accordance with the standard of the Ministry of Transportation of Ontario:

Trace:	Less than 10%
Some:	10-20%
y:	21-35%
and:	36-50%

GPS co-ordinates are referenced in the universal transverse mercator (UTM) coordinate system, unless otherwise noted.

Northing:	seven digit number
Easting:	six digit number

Project No: 6574

Project: Limited Phase II Environmental Site Assessment

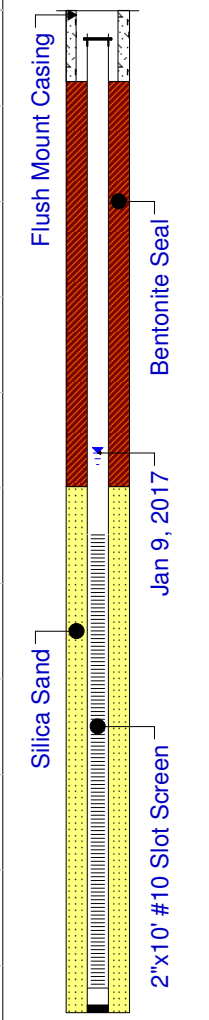
Client: The Rosseau Group

Location: 2411, 2421, 2433 New Street, Burlington, Ontario

S2S Environmental Inc.

Log of Borehole: BH1

Depth (ft / m)	Symbol	Description	Number	Type	Recovery %	Laboratory Analyses	HSVC as Isobutylene (ppm)	HSVC as Hexane (ppm / %LEL)
0 / 0		Grade Surface						
0 / 0		ASPHALT (100 mm)						
1 / 0		Brown, damp, fine to coarse, very loose, SAND and fine and coarse, rouded and subangular GRAVEL (FILL)	1		70			
2 / 0			2		70	Metals & Inorg.	<1	<25
3 / 1		Brown, moist, fine, loose SAND, trace silt (FILL), non-cohesive, non-plastic - light brown - black mottling for approximately 0.20 m	3		70	PAHs	<1	<25
5 / 1			4		70		<1	<25
6 / 2		- black mottling for approximately 0.13 m - brown, saturated	5		90		<1	<25
8 / 2			6		90		<1	<25
9 / 3		- black mottling for approximately 0.02 m	7		95	PHCs, BTEX, Metals, pH, Grain Size	<1	50
11 / 3			8		95		<1	<25
12 / 4			9		100	VOCs	<1	<25
13 / 4								
14 / 4								
15 / 5		Brown, wet, loose SAND, trace silt, non-cohesive, non-plastic - trace fine gravel from approximately 4.42 m bgs to approximately 4.58 m bgs						
16 / 5								
17 / 5								
18 / 6		Weathered SHALE bedrock						
19 / 6								
20 / 6								
21 / 7		End of Borehole						
22 / 7								
23 / 7								
24								



Monitoring well installed to approximately 6.4 m bgs

Drill Date: January 5, 2017
Drill Rig: Track-mounted AMS Powerprobe 9700 VTR-PRO
Hole Size / Drill Method: 127 mm / SSA
GPS Coordinates: 17T 598349 E 4799007 N

Datum: N/A
Logged by: RW
Checked by: AC
Sheet: 1 of 1

Notes:
One groundwater sample (BH1) collected on January 10, 2017 and submitted for laboratory analyses of PHCs, selected VOCs, and selected metals and inorganics.

One duplicate soil sample (DUP1) collected on January 5, 2017 from approximately 0.5 to approximately 1.2 m bgs and submitted for laboratory analysis of selected metals and inorganics.

Project No: 6574

Project: Limited Phase II Environmental Site Assessment

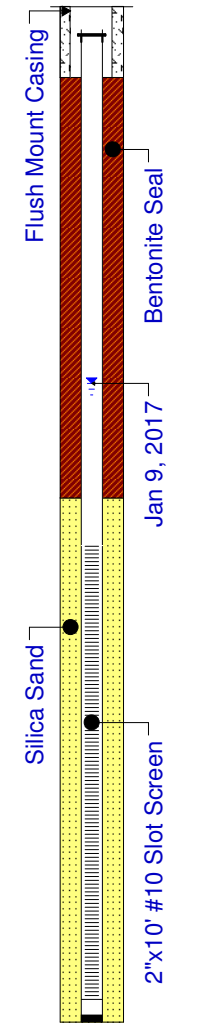
Client: The Rosseau Group

Location: 2411, 2421, 2433 New Street, Burlington, Ontario

S2S Environmental Inc.

Log of Borehole: BH2

Depth (ft / m)	Symbol	Description	Number	Type	Recovery %	Laboratory Analyses	HSVC as Isobutylene (ppm)	HSVC as Hexane (ppm / %LEL)
0 / 0		Grade Surface						
0 / 0		ASPHALT (50 mm)						
1 / 0		Brown, damp SILT and loose SAND (FILL), slightly cohesive, low plasticity	1		50		<1	<25
3 / 1		Light brown, damp, fine SAND, trace very soft silt, non-cohesive, non-plastic - moist	2		50	Metals & Inorg.	<1	<25
5 / 2			3		85	PAHs	<1	<25
7 / 2		- wet	4		85	PHCs, BTEX, Metals	<1	<25
9 / 3			5		95		<1	<25
10 / 3		- some fine, subangular gravel for approximately 0.3 m	6		95		<1	<25
13 / 4			7		100	Grain Size	<1	<25
15 / 4			8		100		<1	<25
16 / 5		- fragments of grey, weathered shale	9		100		<1	<25
17 / 5		Dark brown, moist SILT, trace loose sand, slightly cohesive, low plasticity	10		100	VOCs		
18 / 5		Weathered SHALE bedrock						
22 / 6		End of Borehole						



Monitoring well installed to approximately 6.5 m bgs

Drill Date: January 5, 2017

Drill Rig: Track-mounted AMS Powerprobe 9700 VTR-PRO

Hole Size / Drill Method: 127 mm / SSA

GPS Coordinates: 17T 598324 E 4799090 N

Datum: N/A

Logged by: RW

Checked by: AC

Sheet: 1 of 1

Notes:

One groundwater sample (BH2) collected on January 10, 2017 and submitted for laboratory analysis of selected VOCs.

One duplicate soil sample (DUP2) collected on January 5, 2017 from approximately 1.2 to approximately 1.8 m bgs and submitted for laboratory analysis of selected PAHs.

Project No: 6574

Project: Limited Phase II Environmental Site Assessment

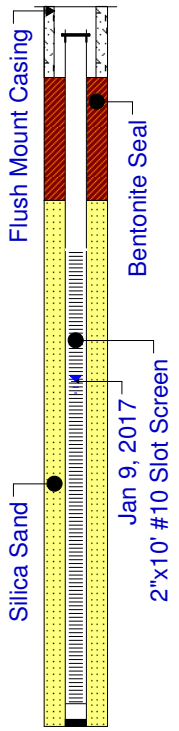
Client: The Rosseau Group

Location: 2411, 2421, 2433 New Street, Burlington, Ontario

S2S Environmental Inc.

Log of Borehole: BH2B

SUBSURFACE PROFILE			SAMPLE				HSVC as Isobutylene (ppm, 1 – 1000)	HSVC as Hexane (ppm, 100 – 300 – 500; %LEL, 10 30 50 70 90)	Well Completion Details
Depth (ft / m)	Symbol	Description	Number	Type	Recovery %	Laboratory Analyses			
0 / 0		Grade Surface							
0 – 0.05		ASPHALT (50 mm)							
0.05 – 1.5 / 0 – 0.5		Brown, damp, soft SILT and SAND (FILL), slightly cohesive, low plasticity							
1.5 – 4.6 / 0.5 – 1.4		Light brown, damp, fine SAND, trace very soft silt, non-cohesive, non-plastic - moist							
3 / 1		- wet							
10 / 3		- some fine subangular gravel for approximately 0.3 m							
15 / 4.6		End of Borehole							



Monitoring well installed to approximately 4.6 m bgs

Drill Date: January 6, 2017

Drill Rig: Track-mounted AMS Powerprobe 9700 VTR-PRO

Hole Size / Drill Method: 127 mm / SSA

GPS Coordinates: 17T 598322 E 4799089 N

Datum: N/A

Logged by: RW

Checked by: AC

Sheet: 1 of 1

Notes:

One groundwater sample (BH2B) collected on January 10, 2017 and submitted for laboratory analyses of PHCs, selected VOCs, selected PAHs, and selected metals and inorganics.

Project No: 6574

Project: Limited Phase II Environmental Site Assessment

Client: The Rosseau Group

Location: 2411, 2421, 2433 New Street, Burlington, Ontario

S2S Environmental Inc.

Log of Borehole: BH3

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Symbol	Description
0	0		Grade Surface
0	0		ASPHALT (50 mm)
1	0		Light grey, damp, fine to coarse SAND and fine, angular GRAVEL (FILL)
2	0		Dark brown, moist, very loose, fine SAND, trace soft silt (FILL), slightly cohesive, non-plastic
3	1		- trace organics for approximately 0.5 m, wet
5	1		- black mottling for approximately 0.1 m
7	2		
10	3		
11	3		Dark brown, wet, fine, very loose SAND, trace soft silt, slightly cohesive, non-plastic
13	4		
15	4		- fragments of grey weathered shale
16	5		End of Borehole
20	6		
23	7		
24			

SAMPLE

Number	Type	Recovery %	Laboratory Analyses
1		70	
2		70	Metals & Inorg.
3		80	PAHs
4		80	PHCs, BTEX, Metals
5		100	
6		100	
7		80	Grain Size
8		80	
9		80	VOCs

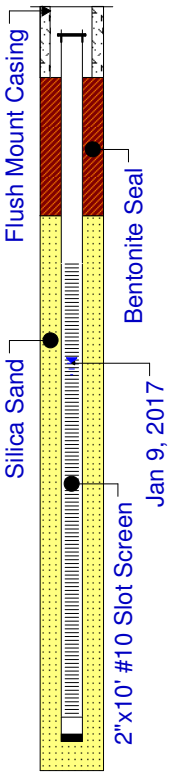
HSVC as Isobutylene: ppm (1 – 1000)

Number	HSVC as Isobutylene (ppm)
1	<1
2	<1
3	<1
4	<1
5	<1
6	<1
7	<1
8	<1
9	<1

HSVC as Hexane: ppm (100 – 300 – 500); %LEL (10 30 50 70 90)

Number	HSVC as Hexane (%LEL)
1	<25
2	<25
3	<25
4	<25
5	<25
6	<25
7	<25
8	<25
9	<25

Well Completion Details



Monitoring well installed to approximately 4.7 m bgs

Drill Date: January 5, 2017

Drill Rig: Track-mounted AMS Powerprobe 9700 VTR-PRO

Hole Size / Drill Method: 127 mm / SSA

GPS Coordinates: 17T 598381 E 4799056 N

Datum: N/A

Logged by: RW

Checked by: AC

Sheet: 1 of 1

Notes:

One groundwater sample (BH3) collected on January 9, 2017 and submitted for laboratory analysis of PHCs, selected VOCs, selected PAHs, and selected metals and inorganics.

One duplicate soil sample (DUP4) collected on January 5, 2017 from approximately 4.6 m to approximately 4.9 m bgs and submitted for laboratory analysis of selected VOCs.

One duplicate groundwater sample (DUP3) collected on January 9, 2017 and submitted for laboratory analysis of selected PAHs.

Project No: 6574

Project: Limited Phase II Environmental Site Assessment

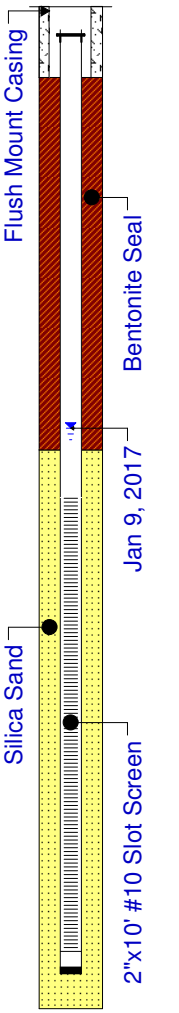
Client: The Rosseau Group

Location: 2411, 2421, 2433 New Street, Burlington, Ontario

S2S Environmental Inc.

Log of Borehole: BH4

Depth (ft / m)	Symbol	Description	Number	Type	Recovery %	Laboratory Analyses	HSVC as Isobutylene (ppm)	HSVC as Hexane (ppm / %LEL)
0 / 0		Grade Surface						
0		ASPHALT (100 mm)						
1		Grey, damp, fine to coarse, loose SAND and fine GRAVEL (FILL), non-cohesive, non-plastic	1		80		<1	85
2		Brown, moist, very loose, fine SAND trace silt (FILL). non-cohesive, non-plastic	2		80	Metals & Inorg.	2	<25
3 / 1		- dark brown mottling for approximately 0.5 m	3		60	PAHs	<1	50
4			4		60		<1	<25
5		- wet	5		95	PHCs, BTEX, Metals, Grain Size	<1	60
6 / 2								
7		Brown, wet, very loose SAND, trace silt (FILL), non-cohesive, non-plastic	6		95		<1	<25
8			7		100		<1	30
9 / 3			8		100		1	30
10			9		5	VOCs		
11								
12								
13 / 4								
14								
15								
16 / 5								
17								
18		Weathered SHALE bedrock						
19								
20 / 6								
21								
22		End of Borehole						
23 / 7								
24								



Drill Date: January 6, 2017

Drill Rig: Track-mounted AMS Powerprobe 9700 VTR-PRO

Hole Size / Drill Method: 127 mm / SSA

GPS Coordinates: 17T 598424 E 4799000 N

Datum: Local

Logged by: RW

Checked by: AC

Sheet: 1 of 1

Notes:

One groundwater sample (BH4) collected on January 10, 2017 and submitted for laboratory analyses of PHCs, selected VOCs, and selected metals and inorganics.

One duplicate soil sample (DUP3) collected on January 6, 2017 from approximately 2.4 to approximately 3.0 m bgs and submitted for laboratory analysis of PHCs and BTEX.

One duplicate groundwater sample (DUP4) collected on January 10, 2017 and submitted for laboratory analysis of selected metals and inorganics.

APPENDIX C

SITE SELECTION CRITERIA FOR DETERMINING APPROPRIATE SITE CONDITION STANDARDS

Environmental Standards Selection

The applicable environmental Standards for the Subject Property were determined in accordance to Ontario Regulation (O. Reg.) 153/04 (including amendments up to O. Reg. 333/13). A schematic diagram showing the process for determining applicable environmental Standards is included as Drawing No. 2. The following conditions were reviewed as part of the assessment: environmentally sensitive areas, land use, soil texture, groundwater, the presence of potable water wells, and municipal drinking water supplies.

Environmentally sensitive areas are defined in Section 41 of O. Reg. 153/04 as follows:

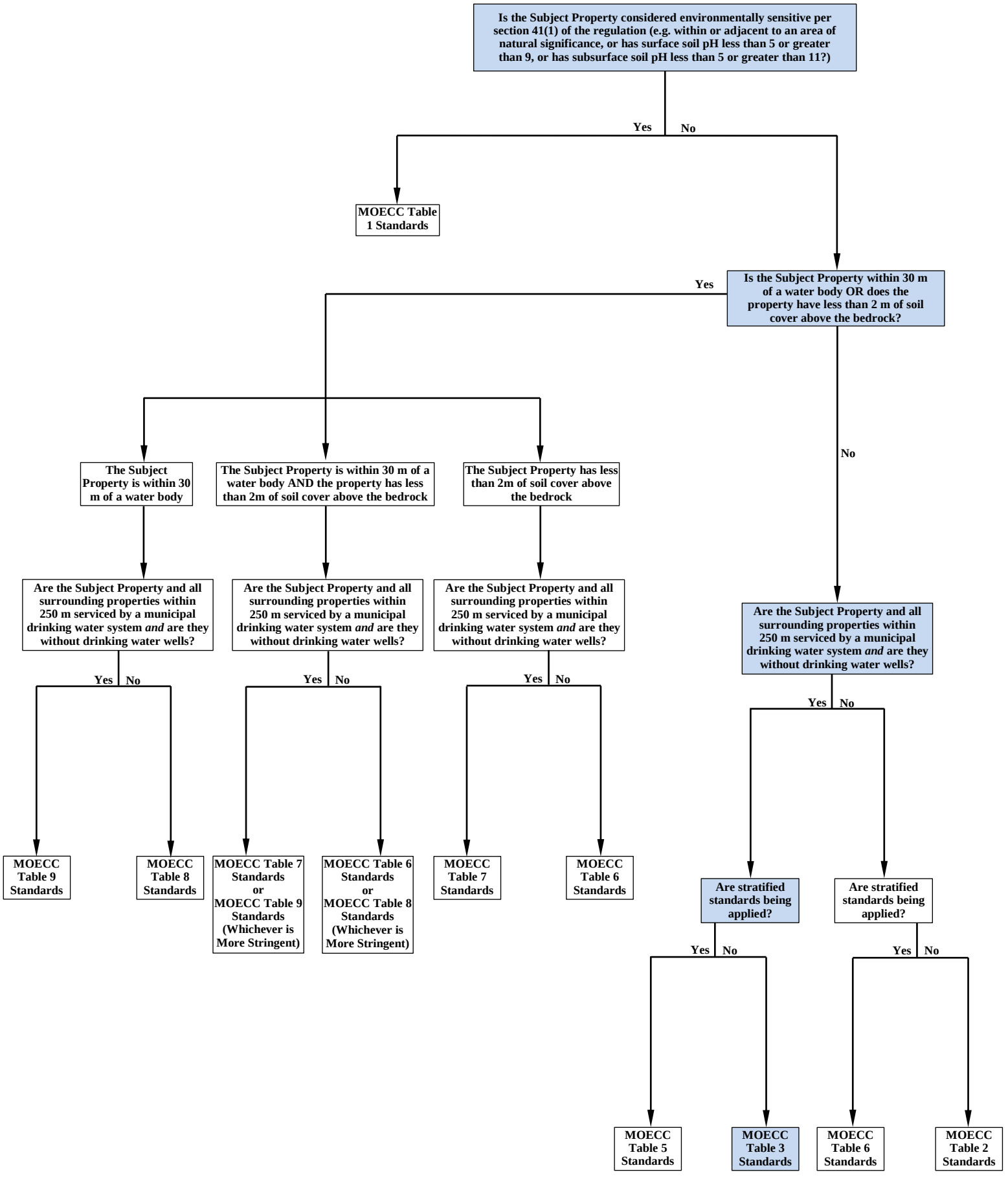
- The Subject Property is:
  - within an area of natural significance;
  - includes or is adjacent to an area of natural significance or part of such an area, or
  - includes land that is within 30 metres of an area of natural significance or part of such an area;
- The soil at the Subject Property has a pH value as follows:
  - for surface soil, less than 5 or greater than 9;
  - for sub-surface soil, less than 5 or greater than 11; or
  - a qualified person is of the opinion that, given the characteristics of the property and the certifications the qualified person would be required to make in a record of site condition in relation to the property as specified in Schedule A, it is appropriate to apply this section to the property;

Areas of natural significance are defined in O. Reg. 153/04 as follows:

- An area reserved or set apart as a provincial park or conservation reserve under the *Provincial Parks and Conservation Reserves Act, 2006*;
- An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources and Forestry(MNRF) as having provincial significance;
- A wetland identified by the MNRF as having provincial significance;
- An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant;
- An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the *Niagara Escarpment Planning and Development Act*;
- An area identified by the MNRF as significant habitat of a threatened or endangered species;
- An area which is habitat of a species that is classified under section 7 of the *Endangered Species Act, 2007* as a threatened or endangered species;
- Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the *Oak Ridges Moraine Conservation Act, 2001* applies; and
- An area set apart as a wilderness area under the *Wilderness Areas Act*.

Other conditions at the Subject Property and/or adjacent/neighbouring properties that were assessed included:

- An assessment of the subsurface soil to determine if greater than 1/3 of the Subject Property has less than 2 m of overburden (i.e. shallow soil condition);
- The current land use for the Subject Property, or the most recent land use for an unused property, or multiple land uses at a property;
- A determination of soil texture was conducted based on laboratory analysis of grain size (included in Appendix D) in addition to a review of the borehole records to determine if the grain size is consistent with over 1/3 of the subsoils located at the Subject Property;
- If the Subject Property and all properties, in whole or in part, within 250 m of the boundaries of the Subject Property are serviced by the municipal drinking water system and have no potable water wells; and
- The Subject Property is not located in an area designated in a municipal official plan as a wellhead protection area or other designation identified by the municipality for the protection of groundwater.



SITE SELECTION CRITERIA FOR MOECC STANDARDS

2411, 2421 AND 2433 NEW STREET
BURLINGTON, ONTARIO

PROJECT NO.: 6574
SCALE: NOT TO SCALE
PREPARED BY: RW
DATE: JAN 30, 2017
DRAWING NO: 2

S2S Environmental Inc.

APPENDIX D

LABORATORY CERTIFICATES OF ANALYSES

Maxxam
A Bureau Veritas Group Company

Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW ST.
Your C.O.C. #: na

Attention:Ryan Wills

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320545
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B703389
Received: 2017/01/06, 15:24

Sample Matrix: Soil
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	1	N/A	2017/01/09	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	1	2017/01/09	2017/01/09	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	1	N/A	2017/01/10		EPA 8260C m
Free (WAD) Cyanide	1	2017/01/06	2017/01/09	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2017/01/09	2017/01/09	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2017/01/09	2017/01/09	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	1	N/A	2017/01/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	1	2017/01/09	2017/01/10	CAM SOP-00316	CCME CWS m
Strong Acid Leachable Metals by ICPMS	1	2017/01/09	2017/01/09	CAM SOP-00447	EPA 6020B m
Moisture	2	N/A	2017/01/06	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	2	N/A	2017/01/07	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	1	2017/01/06	2017/01/07	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	1	2017/01/11	2017/01/11	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	1	N/A	2017/01/10	CAM SOP-00102	EPA 6010C
SAR - ICP Metals	1	2017/01/09	2017/01/09	CAM SOP-00408	EPA 6010C m
Volatile Organic Compounds in Soil	1	N/A	2017/01/09	CAM SOP-00228	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

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

Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW ST.
Your C.O.C. #: na

Attention:Ryan Wills

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320545
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B703389
Received: 2017/01/06, 15:24

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) Soils are reported on a dry weight basis unless otherwise specified.
(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: JGoralczyk@maxxam.ca
Phone# (905)817-5751

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

Maxxam Job #: B703389
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST.
Your P.O. #: 6574-KAB
Sampler Initials: RW

O.REG 153 METALS & INORGANICS PKG (SOIL)

Maxxam ID		DSJ741	DSJ741		
Sampling Date		2017/01/05 11:04	2017/01/05 11:04		
COC Number		na	na		
	UNITS	**DUP1**	**DUP1 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters					
Sodium Adsorption Ratio	N/A	1.7			4815959
Inorganics					
Conductivity	mS/cm	0.18	0.18	0.002	4817985
Free Cyanide	ug/g	<0.01		0.01	4817085
Moisture	%	8.7		1.0	4817412
Available (CaCl2) pH	pH	7.56			4820723
Metals					
Soluble Calcium (Ca)	mg/L	15.2	15.3	0.5	4817980
Soluble Magnesium (Mg)	mg/L	1.6	1.5	0.5	4817980
Soluble Sodium (Na)	mg/L	26	26	5	4817980
Inorganics					
Chromium (VI)	ug/g	<0.2		0.2	4818002
Metals					
Hot Water Ext. Boron (B)	ug/g	0.16		0.050	4818107
Acid Extractable Antimony (Sb)	ug/g	<0.20		0.20	4817934
Acid Extractable Arsenic (As)	ug/g	1.2		1.0	4817934
Acid Extractable Barium (Ba)	ug/g	17		0.50	4817934
Acid Extractable Beryllium (Be)	ug/g	0.20		0.20	4817934
Acid Extractable Boron (B)	ug/g	<5.0		5.0	4817934
Acid Extractable Cadmium (Cd)	ug/g	<0.10		0.10	4817934
Acid Extractable Chromium (Cr)	ug/g	7.1		1.0	4817934
Acid Extractable Cobalt (Co)	ug/g	2.4		0.10	4817934
Acid Extractable Copper (Cu)	ug/g	5.7		0.50	4817934
Acid Extractable Lead (Pb)	ug/g	4.7		1.0	4817934
Acid Extractable Molybdenum (Mo)	ug/g	<0.50		0.50	4817934
Acid Extractable Nickel (Ni)	ug/g	5.0		0.50	4817934
Acid Extractable Selenium (Se)	ug/g	<0.50		0.50	4817934
Acid Extractable Silver (Ag)	ug/g	<0.20		0.20	4817934
Acid Extractable Thallium (Tl)	ug/g	<0.050		0.050	4817934

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

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Maxxam Job #: B703389
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S2S Environmental Inc
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Sampler Initials: RW

O.REG 153 METALS & INORGANICS PKG (SOIL)

Maxxam ID		DSJ741	DSJ741		
Sampling Date		2017/01/05 11:04	2017/01/05 11:04		
COC Number		na	na		
	UNITS	**DUP1**	**DUP1 Lab-Dup**	**RDL**	**QC Batch**
Acid Extractable Uranium (U)	ug/g	0.22		0.050	4817934
Acid Extractable Vanadium (V)	ug/g	16		5.0	4817934
Acid Extractable Zinc (Zn)	ug/g	17		5.0	4817934
Acid Extractable Mercury (Hg)	ug/g	<0.050		0.050	4817934

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Site Location: NEW ST.
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Sampler Initials: RW

O.REG 153 PAHS (SOIL)

Maxxam ID		DSJ742		
Sampling Date		2017/01/05 08:31		
COC Number		na		
	UNITS	DUP2	RDL	QC Batch
Inorganics				
Moisture	%	12	1.0	4817412
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	4815894
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.0050	0.0050	4817261
Acenaphthylene	ug/g	<0.0050	0.0050	4817261
Anthracene	ug/g	<0.0050	0.0050	4817261
Benzo(a)anthracene	ug/g	<0.0050	0.0050	4817261
Benzo(a)pyrene	ug/g	<0.0050	0.0050	4817261
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	4817261
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	4817261
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	4817261
Chrysene	ug/g	<0.0050	0.0050	4817261
Dibenz(a,h)anthracene	ug/g	<0.0050	0.0050	4817261
Fluoranthene	ug/g	<0.0050	0.0050	4817261
Fluorene	ug/g	<0.0050	0.0050	4817261
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	4817261
1-Methylnaphthalene	ug/g	<0.0050	0.0050	4817261
2-Methylnaphthalene	ug/g	<0.0050	0.0050	4817261
Naphthalene	ug/g	<0.0050	0.0050	4817261
Phenanthrene	ug/g	<0.0050	0.0050	4817261
Pyrene	ug/g	<0.0050	0.0050	4817261
Surrogate Recovery (%)				
D10-Anthracene	%	105		4817261
D14-Terphenyl (FS)	%	107		4817261
D8-Acenaphthylene	%	97		4817261

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Sampler Initials: RW

O.REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		DSJ743	DSJ743		
Sampling Date		2017/01/06 08:36	2017/01/06 08:36		
COC Number		na	na		
	UNITS	DUP3	DUP3 Lab-Dup	RDL	QC Batch
Inorganics					
Moisture	%	18	18	1.0	4816987
BTEX & F1 Hydrocarbons					
Benzene	ug/g	<0.020		0.020	4818290
Toluene	ug/g	<0.020		0.020	4818290
Ethylbenzene	ug/g	<0.020		0.020	4818290
o-Xylene	ug/g	<0.020		0.020	4818290
p+m-Xylene	ug/g	<0.040		0.040	4818290
Total Xylenes	ug/g	<0.040		0.040	4818290
F1 (C6-C10)	ug/g	<10		10	4818290
F1 (C6-C10) - BTEX	ug/g	<10		10	4818290
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10		10	4818400
F3 (C16-C34 Hydrocarbons)	ug/g	<50		50	4818400
F4 (C34-C50 Hydrocarbons)	ug/g	<50		50	4818400
Reached Baseline at C50	ug/g	Yes			4818400
Hydrocarbon Resemblance	ug/g	NA (1)		N/A	4818400
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	102			4818290
4-Bromofluorobenzene	%	100			4818290
D10-Ethylbenzene	%	90			4818290
D4-1,2-Dichloroethane	%	95			4818290
o-Terphenyl	%	102			4818400

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) NA Not applicable

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Sampler Initials: RW

O.REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		DSJ744		
Sampling Date		2017/01/05 14:10		
COC Number		na		
	UNITS	DUP4	RDL	QC Batch
Inorganics				
Moisture	%	21	1.0	4816987
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	4815895
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.50	0.50	4817818
Benzene	ug/g	<0.020	0.020	4817818
Bromodichloromethane	ug/g	<0.050	0.050	4817818
Bromoform	ug/g	<0.050	0.050	4817818
Bromomethane	ug/g	<0.050	0.050	4817818
Carbon Tetrachloride	ug/g	<0.050	0.050	4817818
Chlorobenzene	ug/g	<0.050	0.050	4817818
Chloroform	ug/g	<0.050	0.050	4817818
Dibromochloromethane	ug/g	<0.050	0.050	4817818
1,2-Dichlorobenzene	ug/g	<0.050	0.050	4817818
1,3-Dichlorobenzene	ug/g	<0.050	0.050	4817818
1,4-Dichlorobenzene	ug/g	<0.050	0.050	4817818
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	0.050	4817818
1,1-Dichloroethane	ug/g	<0.050	0.050	4817818
1,2-Dichloroethane	ug/g	<0.050	0.050	4817818
1,1-Dichloroethylene	ug/g	<0.050	0.050	4817818
cis-1,2-Dichloroethylene	ug/g	<0.050	0.050	4817818
trans-1,2-Dichloroethylene	ug/g	<0.050	0.050	4817818
1,2-Dichloropropane	ug/g	<0.050	0.050	4817818
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	4817818
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	4817818
Ethylbenzene	ug/g	<0.020	0.020	4817818
Ethylene Dibromide	ug/g	<0.050	0.050	4817818
Hexane	ug/g	<0.050	0.050	4817818
Methylene Chloride(Dichloromethane)	ug/g	<0.050	0.050	4817818
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	0.50	4817818

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Sampler Initials: RW

O.REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		DSJ744		
Sampling Date		2017/01/05 14:10		
COC Number		na		
	UNITS	**DUP4**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/g	<0.50	0.50	4817818
Methyl t-butyl ether (MTBE)	ug/g	<0.050	0.050	4817818
Styrene	ug/g	<0.050	0.050	4817818
1,1,1,2-Tetrachloroethane	ug/g	<0.050	0.050	4817818
1,1,2,2-Tetrachloroethane	ug/g	<0.050	0.050	4817818
Tetrachloroethylene	ug/g	<0.050	0.050	4817818
Toluene	ug/g	<0.020	0.020	4817818
1,1,1-Trichloroethane	ug/g	<0.050	0.050	4817818
1,1,2-Trichloroethane	ug/g	<0.050	0.050	4817818
Trichloroethylene	ug/g	<0.050	0.050	4817818
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	0.050	4817818
Vinyl Chloride	ug/g	<0.020	0.020	4817818
p+m-Xylene	ug/g	<0.020	0.020	4817818
o-Xylene	ug/g	<0.020	0.020	4817818
Total Xylenes	ug/g	<0.020	0.020	4817818
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	99		4817818
D10-o-Xylene	%	86		4817818
D4-1,2-Dichloroethane	%	94		4817818
D8-Toluene	%	97		4817818

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST.
Your P.O. #: 6574-KAB
Sampler Initials: RW

TEST SUMMARY

Maxxam ID: DSJ741 **Collected:** 2017/01/05
Sample ID: DUP1 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	4818107	2017/01/09	2017/01/09	Archana Patel
Free (WAD) Cyanide	TECH	4817085	2017/01/06	2017/01/09	Xuanhong Qiu
Conductivity	AT	4817985	2017/01/09	2017/01/09	Tahir Anwar
Hexavalent Chromium in Soil by IC	IC/SPEC	4818002	2017/01/09	2017/01/09	Lang Le
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817934	2017/01/09	2017/01/09	Daniel Teclu
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
pH CaCl2 EXTRACT	AT	4820723	2017/01/11	2017/01/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	4815959	N/A	2017/01/10	Automated Statchk
SAR - ICP Metals	ICP	4817980	2017/01/09	2017/01/09	Azita Fazaeli

Maxxam ID: DSJ741 Dup **Collected:** 2017/01/05
Sample ID: DUP1 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	4817985	2017/01/09	2017/01/09	Tahir Anwar
SAR - ICP Metals	ICP	4817980	2017/01/09	2017/01/09	Azita Fazaeli

Maxxam ID: DSJ742 **Collected:** 2017/01/05
Sample ID: DUP2 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4815894	N/A	2017/01/09	Automated Statchk
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	4817261	2017/01/06	2017/01/07	Mitesh Raj

Maxxam ID: DSJ743 **Collected:** 2017/01/06
Sample ID: DUP3 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	4818290	N/A	2017/01/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	4818400	2017/01/09	2017/01/10	Atoosa Keshavarz
Moisture	BAL	4816987	N/A	2017/01/06	Nimarta Singh

Maxxam ID: DSJ743 Dup **Collected:** 2017/01/06
Sample ID: DUP3 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4816987	N/A	2017/01/06	Nimarta Singh

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S2S Environmental Inc
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TEST SUMMARY

Maxxam ID: DSJ744
Sample ID: DUP4
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4815895	N/A	2017/01/10	Automated Statchk
Moisture	BAL	4816987	N/A	2017/01/06	Nimarta Singh
Volatile Organic Compounds in Soil	GC/MS	4817818	N/A	2017/01/09	Rebecca Schultz

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S2S Environmental Inc
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GENERAL COMMENTS

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

Package 1	0.7°C
Package 2	0.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4816987	NS3	RPD [DSJ743-01]	Moisture	2017/01/06	1.1		%	20
4817085	XQI	Matrix Spike	Free Cyanide	2017/01/09		101	%	75 - 125
4817085	XQI	Spiked Blank	Free Cyanide	2017/01/09		95	%	80 - 120
4817085	XQI	Method Blank	Free Cyanide	2017/01/09	<0.01		ug/g	
4817085	XQI	RPD	Free Cyanide	2017/01/09	NC		%	35
4817261	RAJ	Matrix Spike	D10-Anthracene	2017/01/07		96	%	50 - 130
			D14-Terphenyl (FS)	2017/01/07		100	%	50 - 130
			D8-Acenaphthylene	2017/01/07		89	%	50 - 130
			Acenaphthene	2017/01/07		87	%	50 - 130
			Acenaphthylene	2017/01/07		84	%	50 - 130
			Anthracene	2017/01/07		83	%	50 - 130
			Benzo(a)anthracene	2017/01/07		84	%	50 - 130
			Benzo(a)pyrene	2017/01/07		88	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/07		92	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/07		73	%	50 - 130
			Benzo(k)fluoranthene	2017/01/07		89	%	50 - 130
			Chrysene	2017/01/07		88	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/07		73	%	50 - 130
			Fluoranthene	2017/01/07		90	%	50 - 130
			Fluorene	2017/01/07		86	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/07		77	%	50 - 130
			1-Methylnaphthalene	2017/01/07		85	%	50 - 130
			2-Methylnaphthalene	2017/01/07		86	%	50 - 130
			Naphthalene	2017/01/07		81	%	50 - 130
			Phenanthrene	2017/01/07		84	%	50 - 130
			Pyrene	2017/01/07		94	%	50 - 130
4817261	RAJ	Spiked Blank	D10-Anthracene	2017/01/06		100	%	50 - 130
			D14-Terphenyl (FS)	2017/01/06		105	%	50 - 130
			D8-Acenaphthylene	2017/01/06		90	%	50 - 130
			Acenaphthene	2017/01/06		88	%	50 - 130
			Acenaphthylene	2017/01/06		87	%	50 - 130
			Anthracene	2017/01/06		84	%	50 - 130
			Benzo(a)anthracene	2017/01/06		82	%	50 - 130
			Benzo(a)pyrene	2017/01/06		88	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/06		94	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/06		76	%	50 - 130
			Benzo(k)fluoranthene	2017/01/06		89	%	50 - 130
			Chrysene	2017/01/06		89	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/06		72	%	50 - 130
			Fluoranthene	2017/01/06		91	%	50 - 130
			Fluorene	2017/01/06		87	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/06		78	%	50 - 130
			1-Methylnaphthalene	2017/01/06		89	%	50 - 130
			2-Methylnaphthalene	2017/01/06		90	%	50 - 130
			Naphthalene	2017/01/06		85	%	50 - 130
			Phenanthrene	2017/01/06		86	%	50 - 130
			Pyrene	2017/01/06		95	%	50 - 130
4817261	RAJ	Method Blank	D10-Anthracene	2017/01/06		102	%	50 - 130
			D14-Terphenyl (FS)	2017/01/06		105	%	50 - 130
			D8-Acenaphthylene	2017/01/06		95	%	50 - 130
			Acenaphthene	2017/01/06	<0.0050		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acenaphthylene	2017/01/06	<0.0050		ug/g	
			Anthracene	2017/01/06	<0.0050		ug/g	
			Benzo(a)anthracene	2017/01/06	<0.0050		ug/g	
			Benzo(a)pyrene	2017/01/06	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2017/01/06	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2017/01/06	<0.0050		ug/g	
			Benzo(k)fluoranthene	2017/01/06	<0.0050		ug/g	
			Chrysene	2017/01/06	<0.0050		ug/g	
			Dibenz(a,h)anthracene	2017/01/06	<0.0050		ug/g	
			Fluoranthene	2017/01/06	<0.0050		ug/g	
			Fluorene	2017/01/06	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2017/01/06	<0.0050		ug/g	
			1-Methylnaphthalene	2017/01/06	<0.0050		ug/g	
			2-Methylnaphthalene	2017/01/06	<0.0050		ug/g	
			Naphthalene	2017/01/06	<0.0050		ug/g	
			Phenanthrene	2017/01/06	<0.0050		ug/g	
			Pyrene	2017/01/06	<0.0050		ug/g	
4817261	RAJ	RPD	Acenaphthene	2017/01/07	NC		%	40
			Acenaphthylene	2017/01/07	NC		%	40
			Anthracene	2017/01/07	NC		%	40
			Benzo(a)anthracene	2017/01/07	NC		%	40
			Benzo(a)pyrene	2017/01/07	NC		%	40
			Benzo(b/j)fluoranthene	2017/01/07	NC		%	40
			Benzo(g,h,i)perylene	2017/01/07	NC		%	40
			Benzo(k)fluoranthene	2017/01/07	NC		%	40
			Chrysene	2017/01/07	NC		%	40
			Dibenz(a,h)anthracene	2017/01/07	NC		%	40
			Fluoranthene	2017/01/07	NC		%	40
			Fluorene	2017/01/07	NC		%	40
			Indeno(1,2,3-cd)pyrene	2017/01/07	NC		%	40
			1-Methylnaphthalene	2017/01/07	NC		%	40
			2-Methylnaphthalene	2017/01/07	NC		%	40
			Naphthalene	2017/01/07	NC		%	40
			Phenanthrene	2017/01/07	NC		%	40
			Pyrene	2017/01/07	NC		%	40
4817412	NS3	RPD	Moisture	2017/01/07	0		%	20
4817818	RSC	Matrix Spike	4-Bromofluorobenzene	2017/01/09		101	%	60 - 140
			D10-o-Xylene	2017/01/09		106	%	60 - 130
			D4-1,2-Dichloroethane	2017/01/09		92	%	60 - 140
			D8-Toluene	2017/01/09		100	%	60 - 140
			Acetone (2-Propanone)	2017/01/09		83	%	60 - 140
			Benzene	2017/01/09		102	%	60 - 140
			Bromodichloromethane	2017/01/09		101	%	60 - 140
			Bromoform	2017/01/09		96	%	60 - 140
			Bromomethane	2017/01/09		89	%	60 - 140
			Carbon Tetrachloride	2017/01/09		107	%	60 - 140
			Chlorobenzene	2017/01/09		104	%	60 - 140
			Chloroform	2017/01/09		99	%	60 - 140
			Dibromochloromethane	2017/01/09		98	%	60 - 140
			1,2-Dichlorobenzene	2017/01/09		96	%	60 - 140
			1,3-Dichlorobenzene	2017/01/09		100	%	60 - 140

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,4-Dichlorobenzene	2017/01/09		100	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2017/01/09		114	%	60 - 140
			1,1-Dichloroethane	2017/01/09		102	%	60 - 140
			1,2-Dichloroethane	2017/01/09		93	%	60 - 140
			1,1-Dichloroethylene	2017/01/09		107	%	60 - 140
			cis-1,2-Dichloroethylene	2017/01/09		105	%	60 - 140
			trans-1,2-Dichloroethylene	2017/01/09		107	%	60 - 140
			1,2-Dichloropropane	2017/01/09		102	%	60 - 140
			cis-1,3-Dichloropropene	2017/01/09		107	%	60 - 140
			trans-1,3-Dichloropropene	2017/01/09		105	%	60 - 140
			Ethylbenzene	2017/01/09		107	%	60 - 140
			Ethylene Dibromide	2017/01/09		98	%	60 - 140
			Hexane	2017/01/09		118	%	60 - 140
			Methylene Chloride(Dichloromethane)	2017/01/09		104	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09		88	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/09		93	%	60 - 140
			Methyl t-butyl ether (MTBE)	2017/01/09		101	%	60 - 140
			Styrene	2017/01/09		104	%	60 - 140
			1,1,1,2-Tetrachloroethane	2017/01/09		103	%	60 - 140
			1,1,2,2-Tetrachloroethane	2017/01/09		95	%	60 - 140
			Tetrachloroethylene	2017/01/09		105	%	60 - 140
			Toluene	2017/01/09		103	%	60 - 140
			1,1,1-Trichloroethane	2017/01/09		102	%	60 - 140
			1,1,2-Trichloroethane	2017/01/09		94	%	60 - 140
			Trichloroethylene	2017/01/09		104	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2017/01/09		108	%	60 - 140
			Vinyl Chloride	2017/01/09		112	%	60 - 140
			p+m-Xylene	2017/01/09		107	%	60 - 140
			o-Xylene	2017/01/09		101	%	60 - 140
4817818	RSC	Spiked Blank	4-Bromofluorobenzene	2017/01/09		102	%	60 - 140
			D10-o-Xylene	2017/01/09		103	%	60 - 130
			D4-1,2-Dichloroethane	2017/01/09		96	%	60 - 140
			D8-Toluene	2017/01/09		99	%	60 - 140
			Acetone (2-Propanone)	2017/01/09		104	%	60 - 140
			Benzene	2017/01/09		100	%	60 - 130
			Bromodichloromethane	2017/01/09		102	%	60 - 130
			Bromoform	2017/01/09		102	%	60 - 130
			Bromomethane	2017/01/09		87	%	60 - 140
			Carbon Tetrachloride	2017/01/09		103	%	60 - 130
			Chlorobenzene	2017/01/09		101	%	60 - 130
			Chloroform	2017/01/09		98	%	60 - 130
			Dibromochloromethane	2017/01/09		100	%	60 - 130
			1,2-Dichlorobenzene	2017/01/09		95	%	60 - 130
			1,3-Dichlorobenzene	2017/01/09		96	%	60 - 130
			1,4-Dichlorobenzene	2017/01/09		98	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2017/01/09		108	%	60 - 140
			1,1-Dichloroethane	2017/01/09		100	%	60 - 130
			1,2-Dichloroethane	2017/01/09		95	%	60 - 130
			1,1-Dichloroethylene	2017/01/09		103	%	60 - 130
			cis-1,2-Dichloroethylene	2017/01/09		104	%	60 - 130
			trans-1,2-Dichloroethylene	2017/01/09		104	%	60 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichloropropane	2017/01/09		102	%	60 - 130
			cis-1,3-Dichloropropene	2017/01/09		107	%	60 - 130
			trans-1,3-Dichloropropene	2017/01/09		106	%	60 - 130
			Ethylbenzene	2017/01/09		102	%	60 - 130
			Ethylene Dibromide	2017/01/09		101	%	60 - 130
			Hexane	2017/01/09		112	%	60 - 130
			Methylene Chloride(Dichloromethane)	2017/01/09		103	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09		109	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/09		108	%	60 - 130
			Methyl t-butyl ether (MTBE)	2017/01/09		101	%	60 - 130
			Styrene	2017/01/09		102	%	60 - 130
			1,1,1,2-Tetrachloroethane	2017/01/09		102	%	60 - 130
			1,1,2,2-Tetrachloroethane	2017/01/09		103	%	60 - 130
			Tetrachloroethylene	2017/01/09		99	%	60 - 130
			Toluene	2017/01/09		99	%	60 - 130
			1,1,1-Trichloroethane	2017/01/09		99	%	60 - 130
			1,1,2-Trichloroethane	2017/01/09		96	%	60 - 130
			Trichloroethylene	2017/01/09		101	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2017/01/09		103	%	60 - 130
			Vinyl Chloride	2017/01/09		107	%	60 - 130
			p+m-Xylene	2017/01/09		102	%	60 - 130
			o-Xylene	2017/01/09		98	%	60 - 130
4817818	RSC	Method Blank	4-Bromofluorobenzene	2017/01/09		101	%	60 - 140
			D10-o-Xylene	2017/01/09		97	%	60 - 130
			D4-1,2-Dichloroethane	2017/01/09		97	%	60 - 140
			D8-Toluene	2017/01/09		95	%	60 - 140
			Acetone (2-Propanone)	2017/01/09	<0.50		ug/g	
			Benzene	2017/01/09	<0.020		ug/g	
			Bromodichloromethane	2017/01/09	<0.050		ug/g	
			Bromoform	2017/01/09	<0.050		ug/g	
			Bromomethane	2017/01/09	<0.050		ug/g	
			Carbon Tetrachloride	2017/01/09	<0.050		ug/g	
			Chlorobenzene	2017/01/09	<0.050		ug/g	
			Chloroform	2017/01/09	<0.050		ug/g	
			Dibromochloromethane	2017/01/09	<0.050		ug/g	
			1,2-Dichlorobenzene	2017/01/09	<0.050		ug/g	
			1,3-Dichlorobenzene	2017/01/09	<0.050		ug/g	
			1,4-Dichlorobenzene	2017/01/09	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2017/01/09	<0.050		ug/g	
			1,1-Dichloroethane	2017/01/09	<0.050		ug/g	
			1,2-Dichloroethane	2017/01/09	<0.050		ug/g	
			1,1-Dichloroethylene	2017/01/09	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2017/01/09	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2017/01/09	<0.050		ug/g	
			1,2-Dichloropropane	2017/01/09	<0.050		ug/g	
			cis-1,3-Dichloropropene	2017/01/09	<0.030		ug/g	
			trans-1,3-Dichloropropene	2017/01/09	<0.040		ug/g	
			Ethylbenzene	2017/01/09	<0.020		ug/g	
			Ethylene Dibromide	2017/01/09	<0.050		ug/g	
			Hexane	2017/01/09	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2017/01/09	<0.050		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09	<0.50		ug/g	
			Methyl Isobutyl Ketone	2017/01/09	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2017/01/09	<0.050		ug/g	
			Styrene	2017/01/09	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2017/01/09	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2017/01/09	<0.050		ug/g	
			Tetrachloroethylene	2017/01/09	<0.050		ug/g	
			Toluene	2017/01/09	<0.020		ug/g	
			1,1,1-Trichloroethane	2017/01/09	<0.050		ug/g	
			1,1,2-Trichloroethane	2017/01/09	<0.050		ug/g	
			Trichloroethylene	2017/01/09	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2017/01/09	<0.050		ug/g	
			Vinyl Chloride	2017/01/09	<0.020		ug/g	
			p+m-Xylene	2017/01/09	<0.020		ug/g	
			o-Xylene	2017/01/09	<0.020		ug/g	
			Total Xylenes	2017/01/09	<0.020		ug/g	
4817818	RSC	RPD	Acetone (2-Propanone)	2017/01/09	NC		%	50
			Benzene	2017/01/09	NC		%	50
			Bromodichloromethane	2017/01/09	NC		%	50
			Bromoform	2017/01/09	NC		%	50
			Bromomethane	2017/01/09	NC		%	50
			Carbon Tetrachloride	2017/01/09	NC		%	50
			Chlorobenzene	2017/01/09	NC		%	50
			Chloroform	2017/01/09	NC		%	50
			Dibromochloromethane	2017/01/09	NC		%	50
			1,2-Dichlorobenzene	2017/01/09	NC		%	50
			1,3-Dichlorobenzene	2017/01/09	NC		%	50
			1,4-Dichlorobenzene	2017/01/09	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2017/01/09	NC		%	50
			1,1-Dichloroethane	2017/01/09	NC		%	50
			1,2-Dichloroethane	2017/01/09	NC		%	50
			1,1-Dichloroethylene	2017/01/09	NC		%	50
			cis-1,2-Dichloroethylene	2017/01/09	NC		%	50
			trans-1,2-Dichloroethylene	2017/01/09	NC		%	50
			1,2-Dichloropropane	2017/01/09	NC		%	50
			cis-1,3-Dichloropropene	2017/01/09	NC		%	50
			trans-1,3-Dichloropropene	2017/01/09	NC		%	50
			Ethylbenzene	2017/01/09	NC		%	50
			Ethylene Dibromide	2017/01/09	NC		%	50
			Hexane	2017/01/09	NC		%	50
			Methylene Chloride(Dichloromethane)	2017/01/09	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09	NC		%	50
			Methyl Isobutyl Ketone	2017/01/09	NC		%	50
			Methyl t-butyl ether (MTBE)	2017/01/09	NC		%	50
			Styrene	2017/01/09	NC		%	50
			1,1,1,2-Tetrachloroethane	2017/01/09	NC		%	50
			1,1,2,2-Tetrachloroethane	2017/01/09	NC		%	50
			Tetrachloroethylene	2017/01/09	NC		%	50
			Toluene	2017/01/09	NC		%	50
			1,1,1-Trichloroethane	2017/01/09	NC		%	50
			1,1,2-Trichloroethane	2017/01/09	NC		%	50

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Trichloroethylene	2017/01/09	NC		%	50
			Trichlorofluoromethane (FREON 11)	2017/01/09	NC		%	50
			Vinyl Chloride	2017/01/09	NC		%	50
			p+m-Xylene	2017/01/09	NC		%	50
			o-Xylene	2017/01/09	NC		%	50
			Total Xylenes	2017/01/09	NC		%	50
4817934	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2017/01/09		93	%	75 - 125
			Acid Extractable Arsenic (As)	2017/01/09		95	%	75 - 125
			Acid Extractable Barium (Ba)	2017/01/09		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2017/01/09		99	%	75 - 125
			Acid Extractable Boron (B)	2017/01/09		90	%	75 - 125
			Acid Extractable Cadmium (Cd)	2017/01/09		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2017/01/09		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2017/01/09		97	%	75 - 125
			Acid Extractable Copper (Cu)	2017/01/09		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2017/01/09		97	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2017/01/09		105	%	75 - 125
			Acid Extractable Nickel (Ni)	2017/01/09		NC	%	75 - 125
			Acid Extractable Selenium (Se)	2017/01/09		96	%	75 - 125
			Acid Extractable Silver (Ag)	2017/01/09		101	%	75 - 125
			Acid Extractable Thallium (Tl)	2017/01/09		98	%	75 - 125
			Acid Extractable Uranium (U)	2017/01/09		100	%	75 - 125
			Acid Extractable Vanadium (V)	2017/01/09		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2017/01/09		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2017/01/09		100	%	75 - 125
4817934	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2017/01/09		102	%	80 - 120
			Acid Extractable Arsenic (As)	2017/01/09		100	%	80 - 120
			Acid Extractable Barium (Ba)	2017/01/09		101	%	80 - 120
			Acid Extractable Beryllium (Be)	2017/01/09		97	%	80 - 120
			Acid Extractable Boron (B)	2017/01/09		95	%	80 - 120
			Acid Extractable Cadmium (Cd)	2017/01/09		102	%	80 - 120
			Acid Extractable Chromium (Cr)	2017/01/09		101	%	80 - 120
			Acid Extractable Cobalt (Co)	2017/01/09		101	%	80 - 120
			Acid Extractable Copper (Cu)	2017/01/09		104	%	80 - 120
			Acid Extractable Lead (Pb)	2017/01/09		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2017/01/09		102	%	80 - 120
			Acid Extractable Nickel (Ni)	2017/01/09		100	%	80 - 120
			Acid Extractable Selenium (Se)	2017/01/09		99	%	80 - 120
			Acid Extractable Silver (Ag)	2017/01/09		101	%	80 - 120
			Acid Extractable Thallium (Tl)	2017/01/09		100	%	80 - 120
			Acid Extractable Uranium (U)	2017/01/09		99	%	80 - 120
			Acid Extractable Vanadium (V)	2017/01/09		97	%	80 - 120
			Acid Extractable Zinc (Zn)	2017/01/09		97	%	80 - 120
			Acid Extractable Mercury (Hg)	2017/01/09		96	%	80 - 120
4817934	DT1	Method Blank	Acid Extractable Antimony (Sb)	2017/01/09	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2017/01/09	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2017/01/09	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2017/01/09	<0.20		ug/g	
			Acid Extractable Boron (B)	2017/01/09	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2017/01/09	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2017/01/09	<1.0		ug/g	

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Maxxam Job #: B703389
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST.
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Cobalt (Co)	2017/01/09	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2017/01/09	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2017/01/09	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2017/01/09	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2017/01/09	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2017/01/09	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2017/01/09	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2017/01/09	<0.050		ug/g	
			Acid Extractable Uranium (U)	2017/01/09	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2017/01/09	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2017/01/09	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2017/01/09	<0.050		ug/g	
4817934	DT1	RPD	Acid Extractable Antimony (Sb)	2017/01/09	NC		%	30
			Acid Extractable Arsenic (As)	2017/01/09	NC		%	30
			Acid Extractable Barium (Ba)	2017/01/09	0.39		%	30
			Acid Extractable Beryllium (Be)	2017/01/09	NC		%	30
			Acid Extractable Boron (B)	2017/01/09	NC		%	30
			Acid Extractable Cadmium (Cd)	2017/01/09	NC		%	30
			Acid Extractable Chromium (Cr)	2017/01/09	3.7		%	30
			Acid Extractable Cobalt (Co)	2017/01/09	4.3		%	30
			Acid Extractable Copper (Cu)	2017/01/09	3.3		%	30
			Acid Extractable Lead (Pb)	2017/01/09	0.96		%	30
			Acid Extractable Molybdenum (Mo)	2017/01/09	NC		%	30
			Acid Extractable Nickel (Ni)	2017/01/09	3.8		%	30
			Acid Extractable Selenium (Se)	2017/01/09	NC		%	30
			Acid Extractable Silver (Ag)	2017/01/09	NC		%	30
			Acid Extractable Thallium (Tl)	2017/01/09	NC		%	30
			Acid Extractable Uranium (U)	2017/01/09	9.4		%	30
			Acid Extractable Vanadium (V)	2017/01/09	2.8		%	30
			Acid Extractable Zinc (Zn)	2017/01/09	5.7		%	30
			Acid Extractable Mercury (Hg)	2017/01/09	NC		%	30
4817980	AFZ	Spiked Blank	Soluble Calcium (Ca)	2017/01/09		99	%	80 - 120
			Soluble Magnesium (Mg)	2017/01/09		98	%	80 - 120
			Soluble Sodium (Na)	2017/01/09		104	%	80 - 120
4817980	AFZ	Method Blank	Soluble Calcium (Ca)	2017/01/09	<0.5		mg/L	
			Soluble Magnesium (Mg)	2017/01/09	<0.5		mg/L	
			Soluble Sodium (Na)	2017/01/09	<5		mg/L	
4817980	AFZ	RPD [DSJ741-01]	Soluble Calcium (Ca)	2017/01/09	0.59		%	30
			Soluble Magnesium (Mg)	2017/01/09	NC		%	30
			Soluble Sodium (Na)	2017/01/09	0.30		%	30
4817985	TA1	Spiked Blank	Conductivity	2017/01/09		100	%	90 - 110
4817985	TA1	Method Blank	Conductivity	2017/01/09	<0.002		mS/cm	
4817985	TA1	RPD [DSJ741-01]	Conductivity	2017/01/09	2.2		%	10
4818002	LLE	Matrix Spike	Chromium (VI)	2017/01/09		-0.015 (	%	75 - 125
4818002	LLE	Spiked Blank	Chromium (VI)	2017/01/09		84	%	80 - 120
4818002	LLE	Method Blank	Chromium (VI)	2017/01/09	<0.2		ug/g	
4818002	LLE	RPD	Chromium (VI)	2017/01/09	NC		%	35
4818107	APT	Matrix Spike	Hot Water Ext. Boron (B)	2017/01/09		105	%	75 - 125
4818107	APT	Spiked Blank	Hot Water Ext. Boron (B)	2017/01/09		97	%	75 - 125
4818107	APT	Method Blank	Hot Water Ext. Boron (B)	2017/01/09	<0.050		ug/g	
4818107	APT	RPD	Hot Water Ext. Boron (B)	2017/01/09	NC		%	40

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Maxxam Job #: B703389
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST.
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4818290	GRU	Matrix Spike	1,4-Difluorobenzene	2017/01/09		100	%	60 - 140
			4-Bromofluorobenzene	2017/01/09		103	%	60 - 140
			D10-Ethylbenzene	2017/01/09		85	%	60 - 140
			D4-1,2-Dichloroethane	2017/01/09		95	%	60 - 140
			Benzene	2017/01/09		83	%	60 - 140
			Toluene	2017/01/09		84	%	60 - 140
			Ethylbenzene	2017/01/09		92	%	60 - 140
			o-Xylene	2017/01/09		97	%	60 - 140
			p+m-Xylene	2017/01/09		84	%	60 - 140
			F1 (C6-C10)	2017/01/09		81	%	60 - 140
4818290	GRU	Spiked Blank	1,4-Difluorobenzene	2017/01/09		101	%	60 - 140
			4-Bromofluorobenzene	2017/01/09		102	%	60 - 140
			D10-Ethylbenzene	2017/01/09		81	%	60 - 140
			D4-1,2-Dichloroethane	2017/01/09		97	%	60 - 140
			Benzene	2017/01/09		88	%	60 - 140
			Toluene	2017/01/09		92	%	60 - 140
			Ethylbenzene	2017/01/09		96	%	60 - 140
			o-Xylene	2017/01/09		98	%	60 - 140
			p+m-Xylene	2017/01/09		89	%	60 - 140
			F1 (C6-C10)	2017/01/09		86	%	80 - 120
4818290	GRU	Method Blank	1,4-Difluorobenzene	2017/01/09		102	%	60 - 140
			4-Bromofluorobenzene	2017/01/09		102	%	60 - 140
			D10-Ethylbenzene	2017/01/09		80	%	60 - 140
			D4-1,2-Dichloroethane	2017/01/09		97	%	60 - 140
			Benzene	2017/01/09	<0.020		ug/g	
			Toluene	2017/01/09	<0.020		ug/g	
			Ethylbenzene	2017/01/09	<0.020		ug/g	
			o-Xylene	2017/01/09	<0.020		ug/g	
			p+m-Xylene	2017/01/09	<0.040		ug/g	
			Total Xylenes	2017/01/09	<0.040		ug/g	
			F1 (C6-C10)	2017/01/09	<10		ug/g	
			F1 (C6-C10) - BTEX	2017/01/09	<10		ug/g	
4818290	GRU	RPD	Benzene	2017/01/09	NC		%	50
			Toluene	2017/01/09	NC		%	50
			Ethylbenzene	2017/01/09	NC		%	50
			o-Xylene	2017/01/09	NC		%	50
			p+m-Xylene	2017/01/09	NC		%	50
			Total Xylenes	2017/01/09	NC		%	50
			F1 (C6-C10)	2017/01/09	NC		%	30
			F1 (C6-C10) - BTEX	2017/01/09	NC		%	30
4818400	AKS	Matrix Spike	o-Terphenyl	2017/01/09		114	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/09		105	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2017/01/09		103	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2017/01/09		111	%	50 - 130
4818400	AKS	Spiked Blank	o-Terphenyl	2017/01/09		108	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/09		92	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2017/01/09		97	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2017/01/09		106	%	80 - 120
4818400	AKS	Method Blank	o-Terphenyl	2017/01/09		103	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/09	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2017/01/09	<50		ug/g	

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Maxxam Job #: B703389
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST.
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F4 (C34-C50 Hydrocarbons)	2017/01/09	<50		ug/g	
4818400	AKS	RPD	F2 (C10-C16 Hydrocarbons)	2017/01/10	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2017/01/10	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2017/01/10	NC		%	30
4820723	NYS	Spiked Blank	Available (CaCl2) pH	2017/01/11		99	%	97 - 103
4820723	NYS	RPD	Available (CaCl2) pH	2017/01/11	0.052		%	N/A

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.

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 spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of 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 (one or both samples < 5x RDL).

(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The matrix spike was reanalyzed to confirm result.

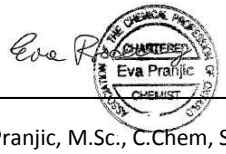
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S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST.
Your P.O. #: 6574-KAB
Sampler Initials: RW

VALIDATION SIGNATURE PAGE

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



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

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
A Bureau Veritas Group Company

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM-COC-001-151/2

RUSH

CHAIN OF CUSTODY RECORD 76146 Page 1 of 1

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: #12599 SOS Environmental Inc.	Company Name:	Quotation #: B15186	☐ Regular TAT (5-7 days) Most analyses
Contact Name: Invoices	Contact Name: Ryan Wills, Kevin Bailey, Ian Goode	P.O. #/ AFE#: 6574-KAB	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 1089 Kingston Rd Suite 260 Pickering ON L1V 1B5	Address:	Project #: 6574	Rush TAT (Surcharges will be applied)
Phone: 416 410-4333 Fax: 416 410-4088	Phone: 416-410-4333 x209 Fax:	Site Location: New St.	☐ 1 Day ☐ 2 Days ☒ 3-4 Days
Email: invoices@s2se.com	Email: rwills, kbailey, igoode@s2se.com	Site #:	Date Required: JAN11-16
		Sampled By: RW	Rush Confirmation #: JG2017010601

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

Regulation 153	Other Regulations
☐ Table 1 ☐ Res/Park ☐ Med/ Fine	☐ CCME ☐ Sanitary Sewer Bylaw
☐ Table 2 ☒ Ind/Comm ☐ Coarse	☐ MISA ☐ Storm Sewer Bylaw
☐ Table 3 ☐ Agri/ Other	☐ PWQO Region
☐ Table ____	☐ Other (Specify)
FOR RSC (PLEASE CIRCLE) (Y) / N	☐ REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: (Y) / N

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

LABORATORY USE ONLY

CUSTODY SEAL Y / (N) — Present / Intact

COOLER TEMPERATURES: 0/2/0 ; 0/1/1

COOLING MEDIA PRESENT: (Y) / N

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	P24	HOLD- DO NOT ANALYZE	COMMENTS
DUP1	JAN5/16	11:04	Soil	1	N				X					
DUP2	JAN5/16	8:31		1								X		
DUP3	JAN6/16	8:36		3		X	X							
DUP4	JAN5/16	14:10		3				X						

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
Ryan Wills	17/1/6	15:14	Jolanta Goralczyk	2017/01/06	15:24

06-Jan-17 15:24
Jolanta Goralczyk
B703389

TK1 ENV-962

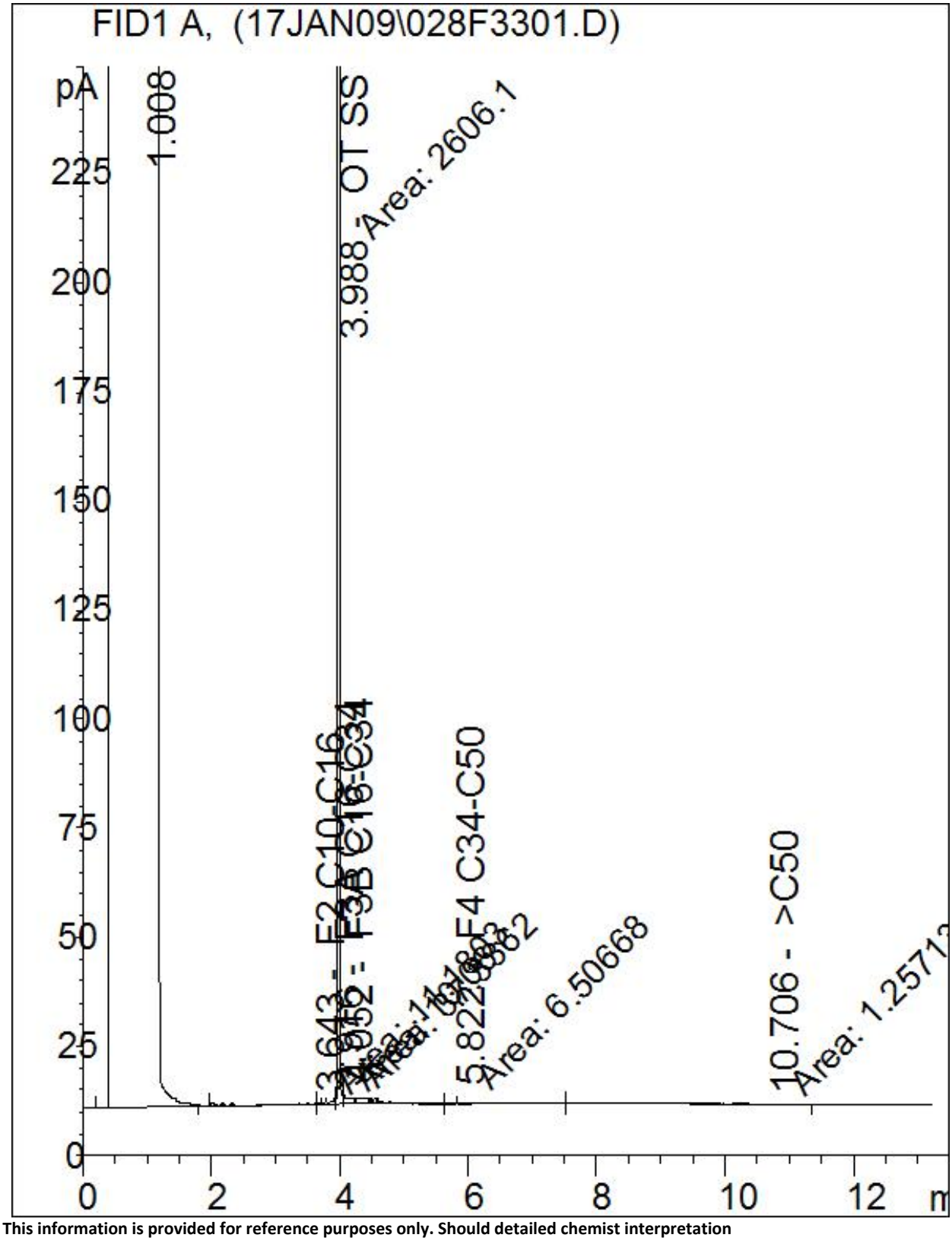
COC-1004 (10/14) - ENV. ENG.

White: Maxxam ~ Yellow: Client

Maxxam Job #: B703389
Report Date: 2017/01/11
Maxxam Sample: DSJ743

S2S Environmental Inc
Client Project #: 6574
Project name: NEW ST.
Client ID: DUP3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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

Maxxam
A Bureau Veritas Group Company

Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW ST
Your C.O.C. #: 76145

Attention:Kevin Bailey

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320564
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B703397
Received: 2017/01/06, 15:24

Sample Matrix: Soil
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	4	N/A	2017/01/09	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	4	2017/01/09	2017/01/09	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	4	N/A	2017/01/10		EPA 8260C m
Free (WAD) Cyanide	4	2017/01/06	2017/01/09	CAM SOP-00457	OMOE E3015 m
Conductivity	4	2017/01/09	2017/01/09	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	4	2017/01/09	2017/01/09	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	4	N/A	2017/01/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	4	2017/01/09	2017/01/10	CAM SOP-00316	CCME CWS m
Strong Acid Leachable Metals by ICPMS	8	2017/01/09	2017/01/09	CAM SOP-00447	EPA 6020B m
Moisture	16	N/A	2017/01/07	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	4	2017/01/06	2017/01/07	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	5	2017/01/09	2017/01/09	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	3	N/A	2017/01/09	CAM SOP-00467	Carter 2nd ed m
Sodium Adsorption Ratio (SAR)	3	N/A	2017/01/09	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	1	N/A	2017/01/10	CAM SOP-00102	EPA 6010C
SAR - ICP Metals	4	2017/01/09	2017/01/09	CAM SOP-00408	EPA 6010C m
Volatile Organic Compounds in Soil	4	N/A	2017/01/09	CAM SOP-00228	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.

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Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW ST
Your C.O.C. #: 76145

Attention:Kevin Bailey

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320564
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B703397
Received: 2017/01/06, 15:24

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) Soils are reported on a dry weight basis unless otherwise specified.
(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: JGoralczyk@maxxam.ca
Phone# (905)817-5751

==========

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 Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

O.REG 153 ICPMS METALS (SOIL)

Maxxam ID		DSJ817	DSJ821	DSJ866	DSJ871		
Sampling Date		2017/01/05 11:17	2017/01/05 08:31	2017/01/05 14:03	2017/01/06 08:36		
COC Number		76145	76145	76145	76145		
	UNITS	BH1-7	BH2-4	BH3-4	BH4-5	RDL	QC Batch
Metals							
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	4817796
Acid Extractable Arsenic (As)	ug/g	1.8	1.1	1.4	1.4	1.0	4817796
Acid Extractable Barium (Ba)	ug/g	13	6.6	9.8	8.5	0.50	4817796
Acid Extractable Beryllium (Be)	ug/g	0.23	<0.20	<0.20	<0.20	0.20	4817796
Acid Extractable Boron (B)	ug/g	5.1	<5.0	<5.0	<5.0	5.0	4817796
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	<0.10	0.10	4817796
Acid Extractable Chromium (Cr)	ug/g	6.8	4.9	6.1	5.7	1.0	4817796
Acid Extractable Cobalt (Co)	ug/g	4.1	1.8	2.6	2.3	0.10	4817796
Acid Extractable Copper (Cu)	ug/g	12	6.6	9.6	8.5	0.50	4817796
Acid Extractable Lead (Pb)	ug/g	4.2	2.5	3.3	3.1	1.0	4817796
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	4817796
Acid Extractable Nickel (Ni)	ug/g	8.2	3.9	5.3	4.5	0.50	4817796
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	4817796
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	4817796
Acid Extractable Thallium (Tl)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817796
Acid Extractable Uranium (U)	ug/g	0.30	0.27	0.34	0.33	0.050	4817796
Acid Extractable Vanadium (V)	ug/g	13	13	15	14	5.0	4817796
Acid Extractable Zinc (Zn)	ug/g	20	11	13	11	5.0	4817796

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

O.REG 153 METALS & INORGANICS PKG (SOIL)

Maxxam ID		DSJ815		DSJ819	DSJ824	DSJ869	DSJ869		
Sampling Date		2017/01/05 11:04		2017/01/05 08:28	2017/01/05 14:00	2017/01/06 08:28	2017/01/06 08:28		
COC Number		76145		76145	76145	76145	76145		
	UNITS	BH1-2	QC Batch	BH2-2	BH3-2	BH4-2	BH4-2 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	1.9	4815959	0.25	0.25	2.0			4815959
Inorganics									
Conductivity	mS/cm	0.17	4817985	0.16	0.15	0.087		0.002	4817978
Free Cyanide	ug/g	<0.01	4817085	<0.01	<0.01	<0.01		0.01	4817085
Moisture	%	8.6	4817412	10	14	7.8	7.8	1.0	4817412
Available (CaCl2) pH	pH	7.57	4818030	7.53	7.34	7.27			4818030
Metals									
Soluble Calcium (Ca)	mg/L	14.0	4817980	26.6	26.3	3.5		0.5	4817967
Soluble Magnesium (Mg)	mg/L	1.9	4817980	1.8	2.9	0.6		0.5	4817967
Soluble Sodium (Na)	mg/L	29	4817980	<5	<5	15		5	4817967
Inorganics									
Chromium (VI)	ug/g	<0.2	4818002	<0.2	<0.2	0.3		0.2	4818002
Metals									
Hot Water Ext. Boron (B)	ug/g	0.18	4817798	0.096	0.16	0.058		0.050	4817798
Acid Extractable Antimony (Sb)	ug/g	<0.20	4817934	<0.20	0.27	<0.20		0.20	4817934
Acid Extractable Arsenic (As)	ug/g	1.2	4817934	4.1	5.0	1.7		1.0	4817934
Acid Extractable Barium (Ba)	ug/g	20	4817934	82	29	17		0.50	4817934
Acid Extractable Beryllium (Be)	ug/g	0.20	4817934	0.51	0.25	0.22		0.20	4817934
Acid Extractable Boron (B)	ug/g	<5.0	4817934	6.3	<5.0	<5.0		5.0	4817934
Acid Extractable Cadmium (Cd)	ug/g	<0.10	4817934	0.13	0.23	<0.10		0.10	4817934
Acid Extractable Chromium (Cr)	ug/g	8.0	4817934	14	9.2	9.9		1.0	4817934
Acid Extractable Cobalt (Co)	ug/g	2.4	4817934	8.1	2.9	3.5		0.10	4817934
Acid Extractable Copper (Cu)	ug/g	6.4	4817934	12	14	7.5		0.50	4817934
Acid Extractable Lead (Pb)	ug/g	5.7	4817934	10	36	4.4		1.0	4817934
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	4817934	0.58	<0.50	<0.50		0.50	4817934
Acid Extractable Nickel (Ni)	ug/g	4.8	4817934	17	6.8	5.7		0.50	4817934
Acid Extractable Selenium (Se)	ug/g	<0.50	4817934	<0.50	<0.50	<0.50		0.50	4817934
Acid Extractable Silver (Ag)	ug/g	<0.20	4817934	<0.20	<0.20	<0.20		0.20	4817934
Acid Extractable Thallium (Tl)	ug/g	<0.050	4817934	0.078	0.052	<0.050		0.050	4817934

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

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

O.REG 153 METALS & INORGANICS PKG (SOIL)

Maxxam ID		DSJ815		DSJ819	DSJ824	DSJ869	DSJ869		
Sampling Date		2017/01/05 11:04		2017/01/05 08:28	2017/01/05 14:00	2017/01/06 08:28	2017/01/06 08:28		
COC Number		76145		76145	76145	76145	76145		
	UNITS	**BH1-2**	**QC Batch**	**BH2-2**	**BH3-2**	**BH4-2**	**BH4-2 Lab-Dup**	**RDL**	**QC Batch**
Acid Extractable Uranium (U)	ug/g	0.25	4817934	0.46	0.38	0.30		0.050	4817934
Acid Extractable Vanadium (V)	ug/g	23	4817934	25	19	29		5.0	4817934
Acid Extractable Zinc (Zn)	ug/g	17	4817934	35	40	12		5.0	4817934
Acid Extractable Mercury (Hg)	ug/g	<0.050	4817934	<0.050	0.071	<0.050		0.050	4817934

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O.REG 153 PAHS (SOIL)

Maxxam ID		DSJ816	DSJ820	DSJ865	DSJ870		
Sampling Date		2017/01/05 11:07	2017/01/05 08:31	2017/01/05 14:03	2017/01/06 08:31		
COC Number		76145	76145	76145	76145		
	UNITS	BH1-3	BH2-3	BH3-3	BH4-3	RDL	QC Batch
Inorganics							
Moisture	%	8.0	9.2	15	9.0	1.0	4817412
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	4815894
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Dibenz(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	4817261
Surrogate Recovery (%)							
D10-Anthracene	%	105	103	103	103		4817261
D14-Terphenyl (FS)	%	108	106	105	104		4817261
D8-Acenaphthylene	%	97	96	94	95		4817261

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		DSJ817	DSJ817		DSJ821	DSJ821	DSJ866	DSJ871		
Sampling Date		2017/01/05 11:17	2017/01/05 11:17		2017/01/05 08:31	2017/01/05 08:31	2017/01/05 14:03	2017/01/06 08:36		
COC Number		76145	76145		76145	76145	76145	76145		
	UNITS	BH1-7	BH1-7 Lab-Dup	QC Batch	BH2-4	BH2-4 Lab-Dup	BH3-4	BH4-5	RDL	QC Batch
Inorganics										
Moisture	%	18	18	4817585	15	15	18	19	1.0	4817406
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020		4818290	<0.020		<0.020	<0.020	0.020	4818290
Toluene	ug/g	<0.020		4818290	<0.020		<0.020	<0.020	0.020	4818290
Ethylbenzene	ug/g	<0.020		4818290	<0.020		<0.020	<0.020	0.020	4818290
o-Xylene	ug/g	<0.020		4818290	<0.020		<0.020	<0.020	0.020	4818290
p+m-Xylene	ug/g	<0.040		4818290	<0.040		<0.040	<0.040	0.040	4818290
Total Xylenes	ug/g	<0.040		4818290	<0.040		<0.040	<0.040	0.040	4818290
F1 (C6-C10)	ug/g	<10		4818290	<10		<10	<10	10	4818290
F1 (C6-C10) - BTEX	ug/g	<10		4818290	<10		<10	<10	10	4818290
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10		4818113	<10		<10	<10	10	4818113
F3 (C16-C34 Hydrocarbons)	ug/g	<50		4818113	<50		<50	<50	50	4818113
F4 (C34-C50 Hydrocarbons)	ug/g	<50		4818113	<50		<50	<50	50	4818113
Reached Baseline at C50	ug/g	Yes		4818113	Yes		Yes	Yes		4818113
Hydrocarbon Resemblance	ug/g	NA (1)		4818113	NA (1)		NA (1)	NA (1)	N/A	4818113
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	103		4818290	101		103	101		4818290
4-Bromofluorobenzene	%	100		4818290	101		98	102		4818290
D10-Ethylbenzene	%	85		4818290	86		93	93		4818290
D4-1,2-Dichloroethane	%	98		4818290	94		98	95		4818290
o-Terphenyl	%	99		4818113	103		98	104		4818113

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) NA: Not applicable

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O.REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		DSJ818	DSJ823	DSJ868	DSJ872		
Sampling Date		2017/01/05 11:22	2017/01/05 08:40	2017/01/05 14:10	2017/01/06 08:45		
COC Number		76145	76145	76145	76145		
	UNITS	BH1-9	BH2-10	BH3-9	BH4-9	RDL	QC Batch
Inorganics							
Moisture	%	21	11	23	16	1.0	4817406
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4815895
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	4817818
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
Bromodichloromethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Bromoform	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Bromomethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Carbon Tetrachloride	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Chlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Chloroform	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Dibromochloromethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,1-Dichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,2-Dichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,1-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,2-Dichloropropane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	0.030	4817818
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	4817818
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
Ethylene Dibromide	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Hexane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	4817818

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Maxxam Job #: B703397
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S2S Environmental Inc
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O.REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		DSJ818	DSJ823	DSJ868	DSJ872		
Sampling Date		2017/01/05 11:22	2017/01/05 08:40	2017/01/05 14:10	2017/01/06 08:45		
COC Number		76145	76145	76145	76145		
	UNITS	BH1-9	BH2-10	BH3-9	BH4-9	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	4817818
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Styrene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Tetrachloroethylene	ug/g	<0.050	1.1	<0.050	0.061	0.050	4817818
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Trichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	4817818
Vinyl Chloride	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	4817818
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	99	98	99	98		4817818
D10-o-Xylene	%	102	86	91	85		4817818
D4-1,2-Dichloroethane	%	97	97	95	97		4817818
D8-Toluene	%	97	97	97	96		4817818

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Maxxam Job #: B703397
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S2S Environmental Inc
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RESULTS OF ANALYSES OF SOIL

Maxxam ID		DSJ817	DSJ822	DSJ867		
Sampling Date		2017/01/05 11:17	2017/01/05 08:35	2017/01/05 14:07		
COC Number		76145	76145	76145		
	UNITS	BH1-7	BH2-7	BH3-7	RDL	QC Batch
Inorganics						
Available (CaCl2) pH	pH	7.82				4818030
Miscellaneous Parameters						
Grain Size	%	FINE	COARSE	COARSE	N/A	4817885
Sieve - #200 (<0.075mm)	%	59	45	43	1	4817885
Sieve - #200 (>0.075mm)	%	41	55	57	1	4817885

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N/A = Not Applicable

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Sampler Initials: RW

TEST SUMMARY

Maxxam ID: DSJ815
Sample ID: BH1-2
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	4817798	2017/01/09	2017/01/09	Archana Patel
Free (WAD) Cyanide	TECH	4817085	2017/01/06	2017/01/09	Xuanhong Qiu
Conductivity	AT	4817985	2017/01/09	2017/01/09	Tahir Anwar
Hexavalent Chromium in Soil by IC	IC/SPEC	4818002	2017/01/09	2017/01/09	Lang Le
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817934	2017/01/09	2017/01/09	Daniel Teclu
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
pH CaCl2 EXTRACT	AT	4818030	2017/01/09	2017/01/09	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	4815959	N/A	2017/01/10	Automated Statchk
SAR - ICP Metals	ICP	4817980	2017/01/09	2017/01/09	Azita Fazaeli

Maxxam ID: DSJ816
Sample ID: BH1-3
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4815894	N/A	2017/01/09	Automated Statchk
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	4817261	2017/01/06	2017/01/07	Mitesh Raj

Maxxam ID: DSJ817
Sample ID: BH1-7
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	4818290	N/A	2017/01/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	4818113	2017/01/09	2017/01/10	(Kent) Maolin Li
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817796	2017/01/09	2017/01/09	Viviana Canzonieri
Moisture	BAL	4817585	N/A	2017/01/07	Prgya Panchal
pH CaCl2 EXTRACT	AT	4818030	2017/01/09	2017/01/09	Neil Dassanayake
Sieve, 75um	SIEV	4817885	N/A	2017/01/09	Chun Yan

Maxxam ID: DSJ817 Dup
Sample ID: BH1-7
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4817585	N/A	2017/01/07	Prgya Panchal

Maxxam ID: DSJ818
Sample ID: BH1-9
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4815895	N/A	2017/01/10	Automated Statchk

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

TEST SUMMARY

Maxxam ID: DSJ818
Sample ID: BH1-9
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal
Volatile Organic Compounds in Soil	GC/MS	4817818	N/A	2017/01/09	Rebecca Schultz

Maxxam ID: DSJ819
Sample ID: BH2-2
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	4817798	2017/01/09	2017/01/09	Archana Patel
Free (WAD) Cyanide	TECH	4817085	2017/01/06	2017/01/09	Xuanhong Qiu
Conductivity	AT	4817978	2017/01/09	2017/01/09	Tahir Anwar
Hexavalent Chromium in Soil by IC	IC/SPEC	4818002	2017/01/09	2017/01/09	Lang Le
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817934	2017/01/09	2017/01/09	Daniel Teclu
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
pH CaCl2 EXTRACT	AT	4818030	2017/01/09	2017/01/09	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	4815959	N/A	2017/01/09	Automated Statchk
SAR - ICP Metals	ICP	4817967	2017/01/09	2017/01/09	Azita Fazaeli

Maxxam ID: DSJ820
Sample ID: BH2-3
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4815894	N/A	2017/01/09	Automated Statchk
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	4817261	2017/01/06	2017/01/07	Mitesh Raj

Maxxam ID: DSJ821
Sample ID: BH2-4
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	4818290	N/A	2017/01/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	4818113	2017/01/09	2017/01/10	(Kent) Maolin Li
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817796	2017/01/09	2017/01/09	Viviana Canzonieri
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal

Maxxam ID: DSJ821 Dup
Sample ID: BH2-4
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal

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Report Date: 2017/01/11

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TEST SUMMARY

Maxxam ID: DSJ822 **Collected:** 2017/01/05
Sample ID: BH2-7 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	4817885	N/A	2017/01/09	Chun Yan

Maxxam ID: DSJ823 **Collected:** 2017/01/05
Sample ID: BH2-10 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4815895	N/A	2017/01/10	Automated Statchk
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal
Volatile Organic Compounds in Soil	GC/MS	4817818	N/A	2017/01/09	Rebecca Schultz

Maxxam ID: DSJ824 **Collected:** 2017/01/05
Sample ID: BH3-2 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	4817798	2017/01/09	2017/01/09	Archana Patel
Free (WAD) Cyanide	TECH	4817085	2017/01/06	2017/01/09	Xuanhong Qiu
Conductivity	AT	4817978	2017/01/09	2017/01/09	Tahir Anwar
Hexavalent Chromium in Soil by IC	IC/SPEC	4818002	2017/01/09	2017/01/09	Lang Le
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817934	2017/01/09	2017/01/09	Daniel Teclu
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
pH CaCl2 EXTRACT	AT	4818030	2017/01/09	2017/01/09	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	4815959	N/A	2017/01/09	Automated Statchk
SAR - ICP Metals	ICP	4817967	2017/01/09	2017/01/09	Azita Fazaeli

Maxxam ID: DSJ865 **Collected:** 2017/01/05
Sample ID: BH3-3 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4815894	N/A	2017/01/09	Automated Statchk
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	4817261	2017/01/06	2017/01/07	Mitesh Raj

Maxxam ID: DSJ866 **Collected:** 2017/01/05
Sample ID: BH3-4 **Shipped:**
Matrix: Soil **Received:** 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	4818290	N/A	2017/01/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	4818113	2017/01/09	2017/01/10	(Kent) Maolin Li
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817796	2017/01/09	2017/01/09	Viviana Canzonieri
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal

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Maxxam Job #: B703397
Report Date: 2017/01/11

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TEST SUMMARY

Maxxam ID: DSJ867
Sample ID: BH3-7
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	4817885	N/A	2017/01/09	Chun Yan

Maxxam ID: DSJ868
Sample ID: BH3-9
Matrix: Soil

Collected: 2017/01/05
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4815895	N/A	2017/01/10	Automated Statchk
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal
Volatile Organic Compounds in Soil	GC/MS	4817818	N/A	2017/01/09	Rebecca Schultz

Maxxam ID: DSJ869
Sample ID: BH4-2
Matrix: Soil

Collected: 2017/01/06
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	4817798	2017/01/09	2017/01/09	Archana Patel
Free (WAD) Cyanide	TECH	4817085	2017/01/06	2017/01/09	Xuanhong Qiu
Conductivity	AT	4817978	2017/01/09	2017/01/09	Tahir Anwar
Hexavalent Chromium in Soil by IC	IC/SPEC	4818002	2017/01/09	2017/01/09	Lang Le
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817934	2017/01/09	2017/01/09	Daniel Teclu
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
pH CaCl2 EXTRACT	AT	4818030	2017/01/09	2017/01/09	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	4815959	N/A	2017/01/09	Automated Statchk
SAR - ICP Metals	ICP	4817967	2017/01/09	2017/01/09	Azita Fazaeli

Maxxam ID: DSJ869 Dup
Sample ID: BH4-2
Matrix: Soil

Collected: 2017/01/06
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal

Maxxam ID: DSJ870
Sample ID: BH4-3
Matrix: Soil

Collected: 2017/01/06
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4815894	N/A	2017/01/09	Automated Statchk
Moisture	BAL	4817412	N/A	2017/01/07	Prgya Panchal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	4817261	2017/01/06	2017/01/07	Mitesh Raj

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Maxxam Job #: B703397
Report Date: 2017/01/11

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TEST SUMMARY

Maxxam ID: DSJ871
Sample ID: BH4-5
Matrix: Soil

Collected: 2017/01/06
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	4818290	N/A	2017/01/10	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	4818113	2017/01/09	2017/01/10	(Kent) Maolin Li
Strong Acid Leachable Metals by ICPMS	ICP/MS	4817796	2017/01/09	2017/01/09	Viviana Canzonieri
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal

Maxxam ID: DSJ872
Sample ID: BH4-9
Matrix: Soil

Collected: 2017/01/06
Shipped:
Received: 2017/01/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4815895	N/A	2017/01/10	Automated Statchk
Moisture	BAL	4817406	N/A	2017/01/07	Prgya Panchal
Volatile Organic Compounds in Soil	GC/MS	4817818	N/A	2017/01/09	Rebecca Schultz

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Maxxam Job #: B703397
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GENERAL COMMENTS

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

Package 1	0.7°C
Package 2	0.7°C

Sample DSJ819 [BH2-2] : SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample DSJ824 [BH3-2] : SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Results relate only to the items tested.

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4817085	XQI	Matrix Spike	Free Cyanide	2017/01/09		101	%	75 - 125
4817085	XQI	Spiked Blank	Free Cyanide	2017/01/09		95	%	80 - 120
4817085	XQI	Method Blank	Free Cyanide	2017/01/09	<0.01		ug/g	
4817085	XQI	RPD	Free Cyanide	2017/01/09	NC		%	35
4817261	RAJ	Matrix Spike	D10-Anthracene	2017/01/07		96	%	50 - 130
			D14-Terphenyl (FS)	2017/01/07		100	%	50 - 130
			D8-Acenaphthylene	2017/01/07		89	%	50 - 130
			Acenaphthene	2017/01/07		87	%	50 - 130
			Acenaphthylene	2017/01/07		84	%	50 - 130
			Anthracene	2017/01/07		83	%	50 - 130
			Benzo(a)anthracene	2017/01/07		84	%	50 - 130
			Benzo(a)pyrene	2017/01/07		88	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/07		92	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/07		73	%	50 - 130
			Benzo(k)fluoranthene	2017/01/07		89	%	50 - 130
			Chrysene	2017/01/07		88	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/07		73	%	50 - 130
			Fluoranthene	2017/01/07		90	%	50 - 130
			Fluorene	2017/01/07		86	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/07		77	%	50 - 130
			1-Methylnaphthalene	2017/01/07		85	%	50 - 130
			2-Methylnaphthalene	2017/01/07		86	%	50 - 130
			Naphthalene	2017/01/07		81	%	50 - 130
			Phenanthrene	2017/01/07		84	%	50 - 130
			Pyrene	2017/01/07		94	%	50 - 130
4817261	RAJ	Spiked Blank	D10-Anthracene	2017/01/06		100	%	50 - 130
			D14-Terphenyl (FS)	2017/01/06		105	%	50 - 130
			D8-Acenaphthylene	2017/01/06		90	%	50 - 130
			Acenaphthene	2017/01/06		88	%	50 - 130
			Acenaphthylene	2017/01/06		87	%	50 - 130
			Anthracene	2017/01/06		84	%	50 - 130
			Benzo(a)anthracene	2017/01/06		82	%	50 - 130
			Benzo(a)pyrene	2017/01/06		88	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/06		94	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/06		76	%	50 - 130
			Benzo(k)fluoranthene	2017/01/06		89	%	50 - 130
			Chrysene	2017/01/06		89	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/06		72	%	50 - 130
			Fluoranthene	2017/01/06		91	%	50 - 130
			Fluorene	2017/01/06		87	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/06		78	%	50 - 130
			1-Methylnaphthalene	2017/01/06		89	%	50 - 130
			2-Methylnaphthalene	2017/01/06		90	%	50 - 130
			Naphthalene	2017/01/06		85	%	50 - 130
			Phenanthrene	2017/01/06		86	%	50 - 130
			Pyrene	2017/01/06		95	%	50 - 130
4817261	RAJ	Method Blank	D10-Anthracene	2017/01/06		102	%	50 - 130
			D14-Terphenyl (FS)	2017/01/06		105	%	50 - 130
			D8-Acenaphthylene	2017/01/06		95	%	50 - 130
			Acenaphthene	2017/01/06	<0.0050		ug/g	
			Acenaphthylene	2017/01/06	<0.0050		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Anthracene	2017/01/06	<0.0050		ug/g	
			Benzo(a)anthracene	2017/01/06	<0.0050		ug/g	
			Benzo(a)pyrene	2017/01/06	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2017/01/06	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2017/01/06	<0.0050		ug/g	
			Benzo(k)fluoranthene	2017/01/06	<0.0050		ug/g	
			Chrysene	2017/01/06	<0.0050		ug/g	
			Dibenz(a,h)anthracene	2017/01/06	<0.0050		ug/g	
			Fluoranthene	2017/01/06	<0.0050		ug/g	
			Fluorene	2017/01/06	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2017/01/06	<0.0050		ug/g	
			1-Methylnaphthalene	2017/01/06	<0.0050		ug/g	
			2-Methylnaphthalene	2017/01/06	<0.0050		ug/g	
			Naphthalene	2017/01/06	<0.0050		ug/g	
			Phenanthrene	2017/01/06	<0.0050		ug/g	
			Pyrene	2017/01/06	<0.0050		ug/g	
4817261	RAJ	RPD	Acenaphthene	2017/01/07	NC		%	40
			Acenaphthylene	2017/01/07	NC		%	40
			Anthracene	2017/01/07	NC		%	40
			Benzo(a)anthracene	2017/01/07	NC		%	40
			Benzo(a)pyrene	2017/01/07	NC		%	40
			Benzo(b/j)fluoranthene	2017/01/07	NC		%	40
			Benzo(g,h,i)perylene	2017/01/07	NC		%	40
			Benzo(k)fluoranthene	2017/01/07	NC		%	40
			Chrysene	2017/01/07	NC		%	40
			Dibenz(a,h)anthracene	2017/01/07	NC		%	40
			Fluoranthene	2017/01/07	NC		%	40
			Fluorene	2017/01/07	NC		%	40
			Indeno(1,2,3-cd)pyrene	2017/01/07	NC		%	40
			1-Methylnaphthalene	2017/01/07	NC		%	40
			2-Methylnaphthalene	2017/01/07	NC		%	40
			Naphthalene	2017/01/07	NC		%	40
			Phenanthrene	2017/01/07	NC		%	40
			Pyrene	2017/01/07	NC		%	40
4817406	NS3	RPD [DSJ821-01]	Moisture	2017/01/07	4.7		%	20
4817412	NS3	RPD [DSJ869-01]	Moisture	2017/01/07	0		%	20
4817585	KP8	RPD [DSJ817-02]	Moisture	2017/01/07	1.7		%	20
4817796	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2017/01/09		78	%	75 - 125
			Acid Extractable Arsenic (As)	2017/01/09		89	%	75 - 125
			Acid Extractable Barium (Ba)	2017/01/09		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2017/01/09		90	%	75 - 125
			Acid Extractable Boron (B)	2017/01/09		NC	%	75 - 125
			Acid Extractable Cadmium (Cd)	2017/01/09		91	%	75 - 125
			Acid Extractable Chromium (Cr)	2017/01/09		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2017/01/09		NC	%	75 - 125
			Acid Extractable Copper (Cu)	2017/01/09		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2017/01/09		76	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2017/01/09		89	%	75 - 125
			Acid Extractable Nickel (Ni)	2017/01/09		NC	%	75 - 125
			Acid Extractable Selenium (Se)	2017/01/09		89	%	75 - 125
			Acid Extractable Silver (Ag)	2017/01/09		94	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Thallium (Tl)	2017/01/09		84	%	75 - 125
			Acid Extractable Uranium (U)	2017/01/09		88	%	75 - 125
			Acid Extractable Vanadium (V)	2017/01/09		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2017/01/09		NC	%	75 - 125
4817796	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2017/01/09		106	%	80 - 120
			Acid Extractable Arsenic (As)	2017/01/09		98	%	80 - 120
			Acid Extractable Barium (Ba)	2017/01/09		95	%	80 - 120
			Acid Extractable Beryllium (Be)	2017/01/09		97	%	80 - 120
			Acid Extractable Boron (B)	2017/01/09		96	%	80 - 120
			Acid Extractable Cadmium (Cd)	2017/01/09		101	%	80 - 120
			Acid Extractable Chromium (Cr)	2017/01/09		99	%	80 - 120
			Acid Extractable Cobalt (Co)	2017/01/09		98	%	80 - 120
			Acid Extractable Copper (Cu)	2017/01/09		98	%	80 - 120
			Acid Extractable Lead (Pb)	2017/01/09		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2017/01/09		102	%	80 - 120
			Acid Extractable Nickel (Ni)	2017/01/09		101	%	80 - 120
			Acid Extractable Selenium (Se)	2017/01/09		100	%	80 - 120
			Acid Extractable Silver (Ag)	2017/01/09		103	%	80 - 120
			Acid Extractable Thallium (Tl)	2017/01/09		97	%	80 - 120
			Acid Extractable Uranium (U)	2017/01/09		95	%	80 - 120
			Acid Extractable Vanadium (V)	2017/01/09		98	%	80 - 120
			Acid Extractable Zinc (Zn)	2017/01/09		94	%	80 - 120
4817796	VIV	Method Blank	Acid Extractable Antimony (Sb)	2017/01/09	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2017/01/09	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2017/01/09	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2017/01/09	<0.20		ug/g	
			Acid Extractable Boron (B)	2017/01/09	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2017/01/09	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2017/01/09	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2017/01/09	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2017/01/09	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2017/01/09	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2017/01/09	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2017/01/09	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2017/01/09	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2017/01/09	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2017/01/09	<0.050		ug/g	
			Acid Extractable Uranium (U)	2017/01/09	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2017/01/09	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2017/01/09	<5.0		ug/g	
4817796	VIV	RPD	Acid Extractable Antimony (Sb)	2017/01/09	NC		%	30
			Acid Extractable Arsenic (As)	2017/01/09	2.0		%	30
			Acid Extractable Barium (Ba)	2017/01/09	7.7		%	30
			Acid Extractable Beryllium (Be)	2017/01/09	NC		%	30
			Acid Extractable Boron (B)	2017/01/09	NC		%	30
			Acid Extractable Cadmium (Cd)	2017/01/09	NC		%	30
			Acid Extractable Chromium (Cr)	2017/01/09	2.7		%	30
			Acid Extractable Cobalt (Co)	2017/01/09	2.2		%	30
			Acid Extractable Copper (Cu)	2017/01/09	0.24		%	30
			Acid Extractable Lead (Pb)	2017/01/09	25		%	30
			Acid Extractable Molybdenum (Mo)	2017/01/09	NC		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Nickel (Ni)	2017/01/09	0.62		%	30
			Acid Extractable Selenium (Se)	2017/01/09	NC		%	30
			Acid Extractable Silver (Ag)	2017/01/09	NC		%	30
			Acid Extractable Thallium (Tl)	2017/01/09	NC		%	30
			Acid Extractable Uranium (U)	2017/01/09	6.9		%	30
			Acid Extractable Vanadium (V)	2017/01/09	1.6		%	30
			Acid Extractable Zinc (Zn)	2017/01/09	5.6		%	30
4817798	APT	Matrix Spike	Hot Water Ext. Boron (B)	2017/01/09		124	%	75 - 125
4817798	APT	Spiked Blank	Hot Water Ext. Boron (B)	2017/01/09		93	%	75 - 125
4817798	APT	Method Blank	Hot Water Ext. Boron (B)	2017/01/09	<0.050		ug/g	
4817798	APT	RPD	Hot Water Ext. Boron (B)	2017/01/09	0.17		%	40
4817818	RSC	Matrix Spike	4-Bromofluorobenzene	2017/01/09		101	%	60 - 140
			D10-o-Xylene	2017/01/09		106	%	60 - 130
			D4-1,2-Dichloroethane	2017/01/09		92	%	60 - 140
			D8-Toluene	2017/01/09		100	%	60 - 140
			Acetone (2-Propanone)	2017/01/09		83	%	60 - 140
			Benzene	2017/01/09		102	%	60 - 140
			Bromodichloromethane	2017/01/09		101	%	60 - 140
			Bromoform	2017/01/09		96	%	60 - 140
			Bromomethane	2017/01/09		89	%	60 - 140
			Carbon Tetrachloride	2017/01/09		107	%	60 - 140
			Chlorobenzene	2017/01/09		104	%	60 - 140
			Chloroform	2017/01/09		99	%	60 - 140
			Dibromochloromethane	2017/01/09		98	%	60 - 140
			1,2-Dichlorobenzene	2017/01/09		96	%	60 - 140
			1,3-Dichlorobenzene	2017/01/09		100	%	60 - 140
			1,4-Dichlorobenzene	2017/01/09		100	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2017/01/09		114	%	60 - 140
			1,1-Dichloroethane	2017/01/09		102	%	60 - 140
			1,2-Dichloroethane	2017/01/09		93	%	60 - 140
			1,1-Dichloroethylene	2017/01/09		107	%	60 - 140
			cis-1,2-Dichloroethylene	2017/01/09		105	%	60 - 140
			trans-1,2-Dichloroethylene	2017/01/09		107	%	60 - 140
			1,2-Dichloropropane	2017/01/09		102	%	60 - 140
			cis-1,3-Dichloropropene	2017/01/09		107	%	60 - 140
			trans-1,3-Dichloropropene	2017/01/09		105	%	60 - 140
			Ethylbenzene	2017/01/09		107	%	60 - 140
			Ethylene Dibromide	2017/01/09		98	%	60 - 140
			Hexane	2017/01/09		118	%	60 - 140
			Methylene Chloride(Dichloromethane)	2017/01/09		104	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09		88	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/09		93	%	60 - 140
			Methyl t-butyl ether (MTBE)	2017/01/09		101	%	60 - 140
			Styrene	2017/01/09		104	%	60 - 140
			1,1,1,2-Tetrachloroethane	2017/01/09		103	%	60 - 140
			1,1,2,2-Tetrachloroethane	2017/01/09		95	%	60 - 140
			Tetrachloroethylene	2017/01/09		105	%	60 - 140
			Toluene	2017/01/09		103	%	60 - 140
			1,1,1-Trichloroethane	2017/01/09		102	%	60 - 140
			1,1,2-Trichloroethane	2017/01/09		94	%	60 - 140
			Trichloroethylene	2017/01/09		104	%	60 - 140

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Trichlorofluoromethane (FREON 11)	2017/01/09		108	%	60 - 140
			Vinyl Chloride	2017/01/09		112	%	60 - 140
			p+m-Xylene	2017/01/09		107	%	60 - 140
			o-Xylene	2017/01/09		101	%	60 - 140
4817818	RSC	Spiked Blank	4-Bromofluorobenzene	2017/01/09		102	%	60 - 140
			D10-o-Xylene	2017/01/09		103	%	60 - 130
			D4-1,2-Dichloroethane	2017/01/09		96	%	60 - 140
			D8-Toluene	2017/01/09		99	%	60 - 140
			Acetone (2-Propanone)	2017/01/09		104	%	60 - 140
			Benzene	2017/01/09		100	%	60 - 130
			Bromodichloromethane	2017/01/09		102	%	60 - 130
			Bromoform	2017/01/09		102	%	60 - 130
			Bromomethane	2017/01/09		87	%	60 - 140
			Carbon Tetrachloride	2017/01/09		103	%	60 - 130
			Chlorobenzene	2017/01/09		101	%	60 - 130
			Chloroform	2017/01/09		98	%	60 - 130
			Dibromochloromethane	2017/01/09		100	%	60 - 130
			1,2-Dichlorobenzene	2017/01/09		95	%	60 - 130
			1,3-Dichlorobenzene	2017/01/09		96	%	60 - 130
			1,4-Dichlorobenzene	2017/01/09		98	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2017/01/09		108	%	60 - 140
			1,1-Dichloroethane	2017/01/09		100	%	60 - 130
			1,2-Dichloroethane	2017/01/09		95	%	60 - 130
			1,1-Dichloroethylene	2017/01/09		103	%	60 - 130
			cis-1,2-Dichloroethylene	2017/01/09		104	%	60 - 130
			trans-1,2-Dichloroethylene	2017/01/09		104	%	60 - 130
			1,2-Dichloropropane	2017/01/09		102	%	60 - 130
			cis-1,3-Dichloropropene	2017/01/09		107	%	60 - 130
			trans-1,3-Dichloropropene	2017/01/09		106	%	60 - 130
			Ethylbenzene	2017/01/09		102	%	60 - 130
			Ethylene Dibromide	2017/01/09		101	%	60 - 130
			Hexane	2017/01/09		112	%	60 - 130
			Methylene Chloride(Dichloromethane)	2017/01/09		103	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09		109	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/09		108	%	60 - 130
			Methyl t-butyl ether (MTBE)	2017/01/09		101	%	60 - 130
			Styrene	2017/01/09		102	%	60 - 130
			1,1,1,2-Tetrachloroethane	2017/01/09		102	%	60 - 130
			1,1,2,2-Tetrachloroethane	2017/01/09		103	%	60 - 130
			Tetrachloroethylene	2017/01/09		99	%	60 - 130
			Toluene	2017/01/09		99	%	60 - 130
			1,1,1-Trichloroethane	2017/01/09		99	%	60 - 130
			1,1,2-Trichloroethane	2017/01/09		96	%	60 - 130
			Trichloroethylene	2017/01/09		101	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2017/01/09		103	%	60 - 130
			Vinyl Chloride	2017/01/09		107	%	60 - 130
			p+m-Xylene	2017/01/09		102	%	60 - 130
			o-Xylene	2017/01/09		98	%	60 - 130
4817818	RSC	Method Blank	4-Bromofluorobenzene	2017/01/09		101	%	60 - 140
			D10-o-Xylene	2017/01/09		97	%	60 - 130
			D4-1,2-Dichloroethane	2017/01/09		97	%	60 - 140

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D8-Toluene	2017/01/09		95	%	60 - 140
			Acetone (2-Propanone)	2017/01/09	<0.50		ug/g	
			Benzene	2017/01/09	<0.020		ug/g	
			Bromodichloromethane	2017/01/09	<0.050		ug/g	
			Bromoform	2017/01/09	<0.050		ug/g	
			Bromomethane	2017/01/09	<0.050		ug/g	
			Carbon Tetrachloride	2017/01/09	<0.050		ug/g	
			Chlorobenzene	2017/01/09	<0.050		ug/g	
			Chloroform	2017/01/09	<0.050		ug/g	
			Dibromochloromethane	2017/01/09	<0.050		ug/g	
			1,2-Dichlorobenzene	2017/01/09	<0.050		ug/g	
			1,3-Dichlorobenzene	2017/01/09	<0.050		ug/g	
			1,4-Dichlorobenzene	2017/01/09	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2017/01/09	<0.050		ug/g	
			1,1-Dichloroethane	2017/01/09	<0.050		ug/g	
			1,2-Dichloroethane	2017/01/09	<0.050		ug/g	
			1,1-Dichloroethylene	2017/01/09	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2017/01/09	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2017/01/09	<0.050		ug/g	
			1,2-Dichloropropane	2017/01/09	<0.050		ug/g	
			cis-1,3-Dichloropropene	2017/01/09	<0.030		ug/g	
			trans-1,3-Dichloropropene	2017/01/09	<0.040		ug/g	
			Ethylbenzene	2017/01/09	<0.020		ug/g	
			Ethylene Dibromide	2017/01/09	<0.050		ug/g	
			Hexane	2017/01/09	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2017/01/09	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09	<0.50		ug/g	
			Methyl Isobutyl Ketone	2017/01/09	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2017/01/09	<0.050		ug/g	
			Styrene	2017/01/09	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2017/01/09	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2017/01/09	<0.050		ug/g	
			Tetrachloroethylene	2017/01/09	<0.050		ug/g	
			Toluene	2017/01/09	<0.020		ug/g	
			1,1,1-Trichloroethane	2017/01/09	<0.050		ug/g	
			1,1,2-Trichloroethane	2017/01/09	<0.050		ug/g	
			Trichloroethylene	2017/01/09	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2017/01/09	<0.050		ug/g	
			Vinyl Chloride	2017/01/09	<0.020		ug/g	
			p+m-Xylene	2017/01/09	<0.020		ug/g	
			o-Xylene	2017/01/09	<0.020		ug/g	
			Total Xylenes	2017/01/09	<0.020		ug/g	
4817818	RSC	RPD	Acetone (2-Propanone)	2017/01/09	NC		%	50
			Benzene	2017/01/09	NC		%	50
			Bromodichloromethane	2017/01/09	NC		%	50
			Bromoform	2017/01/09	NC		%	50
			Bromomethane	2017/01/09	NC		%	50
			Carbon Tetrachloride	2017/01/09	NC		%	50
			Chlorobenzene	2017/01/09	NC		%	50
			Chloroform	2017/01/09	NC		%	50
			Dibromochloromethane	2017/01/09	NC		%	50

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2017/01/09	NC		%	50
			1,3-Dichlorobenzene	2017/01/09	NC		%	50
			1,4-Dichlorobenzene	2017/01/09	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2017/01/09	NC		%	50
			1,1-Dichloroethane	2017/01/09	NC		%	50
			1,2-Dichloroethane	2017/01/09	NC		%	50
			1,1-Dichloroethylene	2017/01/09	NC		%	50
			cis-1,2-Dichloroethylene	2017/01/09	NC		%	50
			trans-1,2-Dichloroethylene	2017/01/09	NC		%	50
			1,2-Dichloropropane	2017/01/09	NC		%	50
			cis-1,3-Dichloropropene	2017/01/09	NC		%	50
			trans-1,3-Dichloropropene	2017/01/09	NC		%	50
			Ethylbenzene	2017/01/09	NC		%	50
			Ethylene Dibromide	2017/01/09	NC		%	50
			Hexane	2017/01/09	NC		%	50
			Methylene Chloride(Dichloromethane)	2017/01/09	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2017/01/09	NC		%	50
			Methyl Isobutyl Ketone	2017/01/09	NC		%	50
			Methyl t-butyl ether (MTBE)	2017/01/09	NC		%	50
			Styrene	2017/01/09	NC		%	50
			1,1,1,2-Tetrachloroethane	2017/01/09	NC		%	50
			1,1,2,2-Tetrachloroethane	2017/01/09	NC		%	50
			Tetrachloroethylene	2017/01/09	NC		%	50
			Toluene	2017/01/09	NC		%	50
			1,1,1-Trichloroethane	2017/01/09	NC		%	50
			1,1,2-Trichloroethane	2017/01/09	NC		%	50
			Trichloroethylene	2017/01/09	NC		%	50
			Trichlorofluoromethane (FREON 11)	2017/01/09	NC		%	50
			Vinyl Chloride	2017/01/09	NC		%	50
			p+m-Xylene	2017/01/09	NC		%	50
			o-Xylene	2017/01/09	NC		%	50
			Total Xylenes	2017/01/09	NC		%	50
4817885	VK	QC Standard	Sieve - #200 (<0.075mm)	2017/01/09		55	%	53 - 58
			Sieve - #200 (>0.075mm)	2017/01/09		45	%	42 - 47
4817885	VK	RPD	Sieve - #200 (<0.075mm)	2017/01/09	1.7		%	20
			Sieve - #200 (>0.075mm)	2017/01/09	3.2		%	20
4817934	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2017/01/09		93	%	75 - 125
			Acid Extractable Arsenic (As)	2017/01/09		95	%	75 - 125
			Acid Extractable Barium (Ba)	2017/01/09		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2017/01/09		99	%	75 - 125
			Acid Extractable Boron (B)	2017/01/09		90	%	75 - 125
			Acid Extractable Cadmium (Cd)	2017/01/09		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2017/01/09		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2017/01/09		97	%	75 - 125
			Acid Extractable Copper (Cu)	2017/01/09		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2017/01/09		97	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2017/01/09		105	%	75 - 125
			Acid Extractable Nickel (Ni)	2017/01/09		NC	%	75 - 125
			Acid Extractable Selenium (Se)	2017/01/09		96	%	75 - 125
			Acid Extractable Silver (Ag)	2017/01/09		101	%	75 - 125
			Acid Extractable Thallium (Tl)	2017/01/09		98	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Uranium (U)	2017/01/09		100	%	75 - 125
			Acid Extractable Vanadium (V)	2017/01/09		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2017/01/09		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2017/01/09		100	%	75 - 125
4817934	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2017/01/09		102	%	80 - 120
			Acid Extractable Arsenic (As)	2017/01/09		100	%	80 - 120
			Acid Extractable Barium (Ba)	2017/01/09		101	%	80 - 120
			Acid Extractable Beryllium (Be)	2017/01/09		97	%	80 - 120
			Acid Extractable Boron (B)	2017/01/09		95	%	80 - 120
			Acid Extractable Cadmium (Cd)	2017/01/09		102	%	80 - 120
			Acid Extractable Chromium (Cr)	2017/01/09		101	%	80 - 120
			Acid Extractable Cobalt (Co)	2017/01/09		101	%	80 - 120
			Acid Extractable Copper (Cu)	2017/01/09		104	%	80 - 120
			Acid Extractable Lead (Pb)	2017/01/09		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2017/01/09		102	%	80 - 120
			Acid Extractable Nickel (Ni)	2017/01/09		100	%	80 - 120
			Acid Extractable Selenium (Se)	2017/01/09		99	%	80 - 120
			Acid Extractable Silver (Ag)	2017/01/09		101	%	80 - 120
			Acid Extractable Thallium (Tl)	2017/01/09		100	%	80 - 120
			Acid Extractable Uranium (U)	2017/01/09		99	%	80 - 120
			Acid Extractable Vanadium (V)	2017/01/09		97	%	80 - 120
			Acid Extractable Zinc (Zn)	2017/01/09		97	%	80 - 120
			Acid Extractable Mercury (Hg)	2017/01/09		96	%	80 - 120
4817934	DT1	Method Blank	Acid Extractable Antimony (Sb)	2017/01/09	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2017/01/09	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2017/01/09	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2017/01/09	<0.20		ug/g	
			Acid Extractable Boron (B)	2017/01/09	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2017/01/09	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2017/01/09	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2017/01/09	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2017/01/09	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2017/01/09	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2017/01/09	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2017/01/09	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2017/01/09	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2017/01/09	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2017/01/09	<0.050		ug/g	
			Acid Extractable Uranium (U)	2017/01/09	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2017/01/09	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2017/01/09	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2017/01/09	<0.050		ug/g	
4817934	DT1	RPD	Acid Extractable Antimony (Sb)	2017/01/09	NC		%	30
			Acid Extractable Arsenic (As)	2017/01/09	NC		%	30
			Acid Extractable Barium (Ba)	2017/01/09	0.39		%	30
			Acid Extractable Beryllium (Be)	2017/01/09	NC		%	30
			Acid Extractable Boron (B)	2017/01/09	NC		%	30
			Acid Extractable Cadmium (Cd)	2017/01/09	NC		%	30
			Acid Extractable Chromium (Cr)	2017/01/09	3.7		%	30
			Acid Extractable Cobalt (Co)	2017/01/09	4.3		%	30
			Acid Extractable Copper (Cu)	2017/01/09	3.3		%	30

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Lead (Pb)	2017/01/09	0.96		%	30
			Acid Extractable Molybdenum (Mo)	2017/01/09	NC		%	30
			Acid Extractable Nickel (Ni)	2017/01/09	3.8		%	30
			Acid Extractable Selenium (Se)	2017/01/09	NC		%	30
			Acid Extractable Silver (Ag)	2017/01/09	NC		%	30
			Acid Extractable Thallium (Tl)	2017/01/09	NC		%	30
			Acid Extractable Uranium (U)	2017/01/09	9.4		%	30
			Acid Extractable Vanadium (V)	2017/01/09	2.8		%	30
			Acid Extractable Zinc (Zn)	2017/01/09	5.7		%	30
			Acid Extractable Mercury (Hg)	2017/01/09	NC		%	30
4817967	AFZ	Spiked Blank	Soluble Calcium (Ca)	2017/01/09		106	%	80 - 120
			Soluble Magnesium (Mg)	2017/01/09		102	%	80 - 120
			Soluble Sodium (Na)	2017/01/09		104	%	80 - 120
4817967	AFZ	Method Blank	Soluble Calcium (Ca)	2017/01/09	<0.5		mg/L	
			Soluble Magnesium (Mg)	2017/01/09	<0.5		mg/L	
			Soluble Sodium (Na)	2017/01/09	<5		mg/L	
4817967	AFZ	RPD	Soluble Calcium (Ca)	2017/01/09	0.30		%	30
			Soluble Magnesium (Mg)	2017/01/09	2.2		%	30
			Soluble Sodium (Na)	2017/01/09	0.58		%	30
4817978	TA1	Spiked Blank	Conductivity	2017/01/09		100	%	90 - 110
4817978	TA1	Method Blank	Conductivity	2017/01/09	<0.002		mS/cm	
4817978	TA1	RPD	Conductivity	2017/01/09	1.3		%	10
4817980	AFZ	Spiked Blank	Soluble Calcium (Ca)	2017/01/09		99	%	80 - 120
			Soluble Magnesium (Mg)	2017/01/09		98	%	80 - 120
			Soluble Sodium (Na)	2017/01/09		104	%	80 - 120
4817980	AFZ	Method Blank	Soluble Calcium (Ca)	2017/01/09	<0.5		mg/L	
			Soluble Magnesium (Mg)	2017/01/09	<0.5		mg/L	
			Soluble Sodium (Na)	2017/01/09	<5		mg/L	
4817980	AFZ	RPD	Soluble Calcium (Ca)	2017/01/09	0.59		%	30
			Soluble Magnesium (Mg)	2017/01/09	NC		%	30
			Soluble Sodium (Na)	2017/01/09	0.30		%	30
4817985	TA1	Spiked Blank	Conductivity	2017/01/09		100	%	90 - 110
4817985	TA1	Method Blank	Conductivity	2017/01/09	<0.002		mS/cm	
4817985	TA1	RPD	Conductivity	2017/01/09	2.2		%	10
4818002	LLE	Matrix Spike	Chromium (VI)	2017/01/09		-0.015 (	%	75 - 125
4818002	LLE	Spiked Blank	Chromium (VI)	2017/01/09		84	%	80 - 120
4818002	LLE	Method Blank	Chromium (VI)	2017/01/09	<0.2		ug/g	
4818002	LLE	RPD	Chromium (VI)	2017/01/09	NC		%	35
4818030	NYS	Spiked Blank	Available (CaCl2) pH	2017/01/09		99	%	97 - 103
4818030	NYS	RPD	Available (CaCl2) pH	2017/01/09	0.74		%	N/A
4818113	KLI	Matrix Spike	o-Terphenyl	2017/01/10		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/10		100	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2017/01/10		101	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2017/01/10		101	%	50 - 130
4818113	KLI	Spiked Blank	o-Terphenyl	2017/01/10		94	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/10		98	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2017/01/10		99	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2017/01/10		99	%	80 - 120
4818113	KLI	Method Blank	o-Terphenyl	2017/01/10		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/10	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2017/01/10	<50		ug/g	

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F4 (C34-C50 Hydrocarbons)	2017/01/10	<50		ug/g	
4818113	KLI	RPD	F2 (C10-C16 Hydrocarbons)	2017/01/10	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2017/01/10	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2017/01/10	NC		%	30
4818290	GRU	Matrix Spike	1,4-Difluorobenzene	2017/01/09		100	%	60 - 140
			4-Bromofluorobenzene	2017/01/09		103	%	60 - 140
			D10-Ethylbenzene	2017/01/09		85	%	60 - 140
			D4-1,2-Dichloroethane	2017/01/09		95	%	60 - 140
			Benzene	2017/01/09		83	%	60 - 140
			Toluene	2017/01/09		84	%	60 - 140
			Ethylbenzene	2017/01/09		92	%	60 - 140
			o-Xylene	2017/01/09		97	%	60 - 140
			p+m-Xylene	2017/01/09		84	%	60 - 140
			F1 (C6-C10)	2017/01/09		81	%	60 - 140
4818290	GRU	Spiked Blank	1,4-Difluorobenzene	2017/01/09		101	%	60 - 140
			4-Bromofluorobenzene	2017/01/09		102	%	60 - 140
			D10-Ethylbenzene	2017/01/09		81	%	60 - 140
			D4-1,2-Dichloroethane	2017/01/09		97	%	60 - 140
			Benzene	2017/01/09		88	%	60 - 140
			Toluene	2017/01/09		92	%	60 - 140
			Ethylbenzene	2017/01/09		96	%	60 - 140
			o-Xylene	2017/01/09		98	%	60 - 140
			p+m-Xylene	2017/01/09		89	%	60 - 140
			F1 (C6-C10)	2017/01/09		86	%	80 - 120
4818290	GRU	Method Blank	1,4-Difluorobenzene	2017/01/09		102	%	60 - 140
			4-Bromofluorobenzene	2017/01/09		102	%	60 - 140
			D10-Ethylbenzene	2017/01/09		80	%	60 - 140
			D4-1,2-Dichloroethane	2017/01/09		97	%	60 - 140
			Benzene	2017/01/09	<0.020		ug/g	
			Toluene	2017/01/09	<0.020		ug/g	
			Ethylbenzene	2017/01/09	<0.020		ug/g	
			o-Xylene	2017/01/09	<0.020		ug/g	
			p+m-Xylene	2017/01/09	<0.040		ug/g	
			Total Xylenes	2017/01/09	<0.040		ug/g	
			F1 (C6-C10)	2017/01/09	<10		ug/g	
			F1 (C6-C10) - BTEX	2017/01/09	<10		ug/g	
4818290	GRU	RPD	Benzene	2017/01/09	NC		%	50
			Toluene	2017/01/09	NC		%	50
			Ethylbenzene	2017/01/09	NC		%	50
			o-Xylene	2017/01/09	NC		%	50
			p+m-Xylene	2017/01/09	NC		%	50
			Total Xylenes	2017/01/09	NC		%	50
			F1 (C6-C10)	2017/01/09	NC		%	30

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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F1 (C6-C10) - BTEX	2017/01/09	NC		%	30

N/A = Not Applicable

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

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

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

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

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of 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 (one or both samples < 5x RDL).

(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The matrix spike was reanalyzed to confirm result.

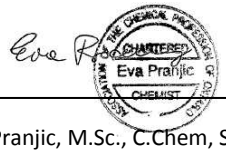
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Maxxam Job #: B703397
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW ST
Your P.O. #: 6574-KAB
Sampler Initials: RW

VALIDATION SIGNATURE PAGE

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



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

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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RUSH!

Maxxam
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CAM FCD-01191/2

CHAIN OF CUSTODY RECORD 76144

Page 1 of 2

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required
Company Name:	#12599 S2S ENVIRONMENTAL	Company Name:		Quotation #:	B15186	☐ Regular TAT (5-7 days) Most analyses
Contact Name:	INVOICES	Contact Name:	KEVIN BAILEY, IAN GOODE, RYAN WILLS	P.O. #/ AFE#:	6574-KAB	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	1094 KINGSTON RD SUITE 260 PICKERING, ON	Address:		Project #:	6574	Rush TAT (Surcharges will be applied)
Phone:	416-410-4533 Fax: 416-410-4088	Phone:	x209 Fax:	Site Location:	NEW ST	☐ 1 Day ☐ 2 Days ☒ 3-4 Days
Email:	INVOICES@S2SE.com	Email:	KBAILEY, IGOODE, RWILLS@S2SE.com	Site #:		Date Required: JAN 11-16
				Sampled By:	RW	Rush Confirmation #: J62017010601

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

Regulation 153: ☐ Table 1 ☐ Res/Park ☐ Med/Fine; ☐ Table 2 ☒ Ind/Comm ☒ Coarse; ☒ Table 3 ☐ Agri/Other; ☐ Table ____; FOR RSC (PLEASE CIRCLE) (Y) / N

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ MISA ☐ Storm Sewer Bylaw; ☐ PWQO Region ____; ☐ Other (Specify) ____; ☒ REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / (N)

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

LABORATORY USE ONLY

CUSTODY SEAL Y / (N) Present / Intact

COOLER TEMPERATURES: 0/2.0 0/1.1

COOLING MEDIA PRESENT: (Y) / N

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REFER TO BACK OF COC: REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	PAH	PH	75µm SIEVE	HOLD- DO NOT ANALYZE	COMMENTS
BH1-2	2017/01/05	11:04	SOIL	1	NO				X		X					LIMITED RECOV
BH1-3		11:07		1								X				
BH1-7		11:17		5		X	X			X			X	X		LIMITED RECOV.
BH1-9		11:22		3				X								
BH2-2		8:28		1					X							
BH2-3		8:31		1								X				
BH2-4		8:31		5		X	X			X						
BH2-7		8:35		1										X		
BH2-10		8:40		3				X								
BH3-2		14:00	V	1	V				X							

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:M
Ryan Wills	17/1/6	15:14	Tanvir B/A TANVIR SEHMI	2017/01/06	15:24

06-Jan-17 15:24
Jolanta Goralczyk
B703397
TK1 ENV-962

COC-1004 (10/14) - ENV. ENG.

White: Maxxam ~ Yellow: Client

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CAM FCD-01191/2

CHAIN OF CUSTODY RECORD 76145

Page 2 of 2

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: 412599 S2S Environmental Inc.	Company Name:	Quotation #: B15186	☐ Regular TAT (5-7 days) Most analyses
Contact Name: Invoices	Contact Name: Ryan Wills, Kevin Bailey, Ian Goode	P.O. #/ AFE#: 6574-KAB	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 1099 Kingston Rd. Suite 260 Pickering ON L1V 1B5	Address:	Project #: 6574	Rush TAT (Surcharges will be applied)
Phone: 416 410 4333 Fax: 416 410 4088	Phone: 416 410 4783 x209 Fax:	Site Location: New St.	☐ 1 Day ☐ 2 Days ☒ 3-4 Days
Email: invoices@s2se.com	Email: rwills, kbailey, igoode@s2se.com	Site #:	Date Required: Jan 11-16
		Sampled By: RW	Rush Confirmation #: JE 20170106011

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

Regulation 153
☐ Table 1 ☐ Res/Park ☐ Med/ Fine
☐ Table 2 ☒ Ind/Comm ☒ Coarse
☐ Table 3 ☐ Agri/ Other
☐ Table ____
FOR RSC (PLEASE CIRCLE) (Y) / N

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ MISA ☐ Storm Sewer Bylaw
☐ PWQO Region ____
☐ Other (Specify) ____
☒ REG 558 (MIN. 3 DAY TAT REQUIRED)

Include Criteria on Certificate of Analysis: Y / (N)

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

LABORATORY USE ONLY
CUSTODY SEAL Y (N) — Present / Intact
COOLER TEMPERATURES: 0.2 / 0.1
COOLING MEDIA PRESENT: (Y) / N

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REFER TO BACK OF COC: REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	PAH	pH	75um SIEVE	HOLD- DO NOT ANALYZE	COMMENTS
BH3-3	2017/01/05	14:03	Soil	1	NO							X				
BH3-4	↓	14:03		4		X	X			X						
BH3-7		14:07		1										X		
BH3-9	↓	14:10		3				X								
BH4-2	2017/01/06	8:28		1					X							
BH4-3	↓	8:31		1								X				
BH4-5		8:36		4		X	X			X						
BH4-9	↓	8:45		4	V	X	X	X							X	PHC ON HOLD ONLY

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	MAXXAM JOB #
Ryan Wills	17/1/16	15:14	Tannis Tannis Brown	2017/01/06	15:27	

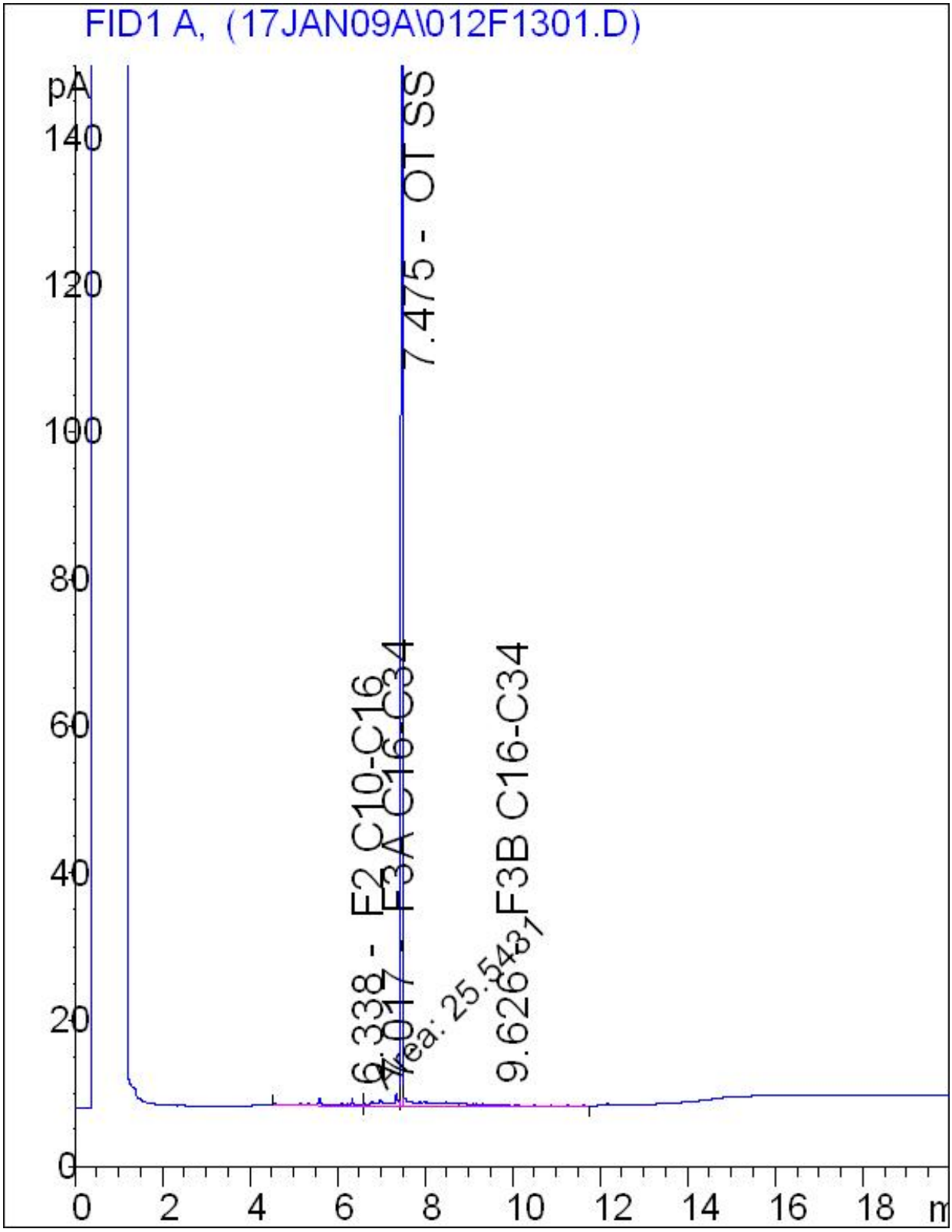
COC-1004 (10/14) - ENV. ENG

White: Maxxam ~ Yellow: Client

Maxxam Job #: B703397
Report Date: 2017/01/11
Maxxam Sample: DSJ817

S2S Environmental Inc
Client Project #: 6574
Project name: NEW ST
Client ID: BH1-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

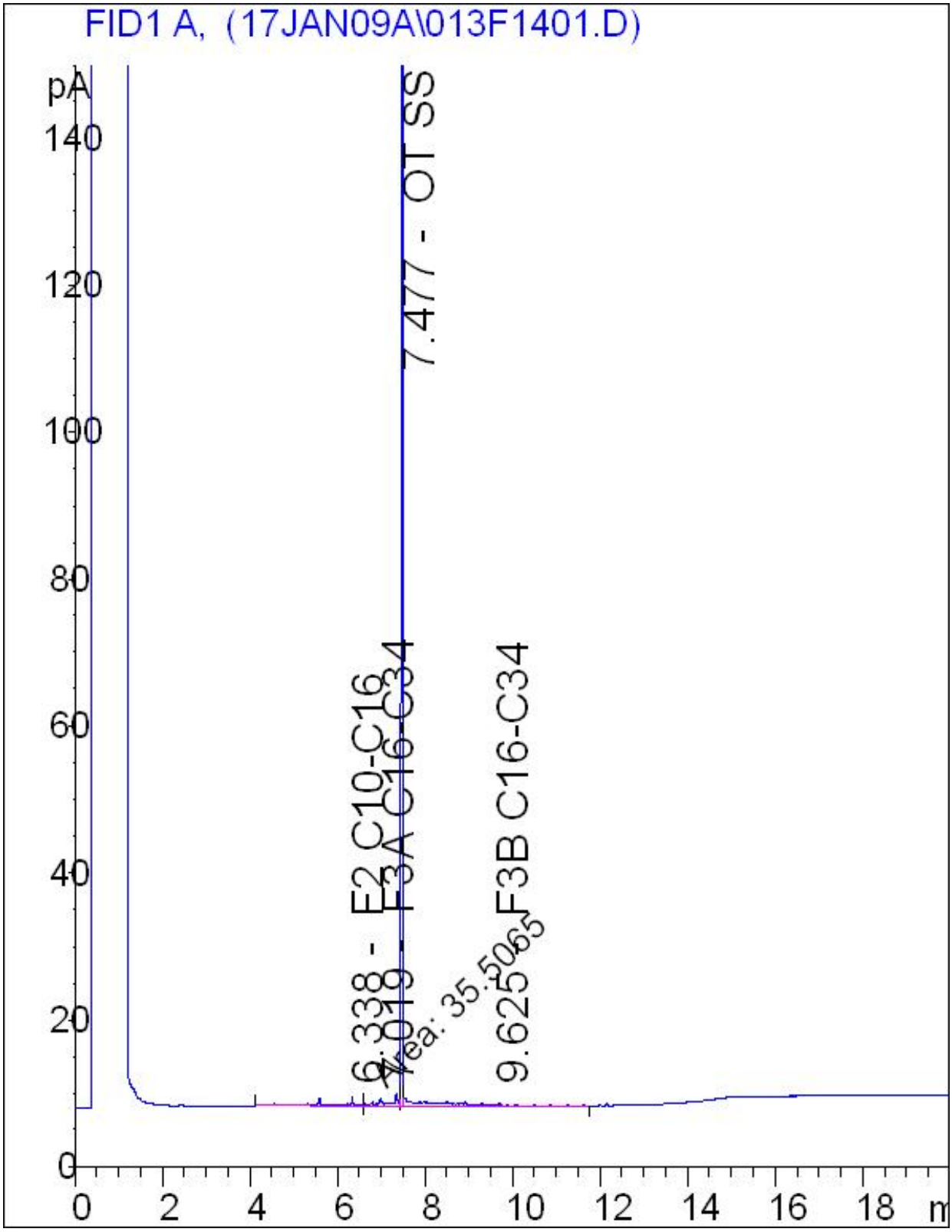


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B703397
Report Date: 2017/01/11
Maxxam Sample: DSJ821

S2S Environmental Inc
Client Project #: 6574
Project name: NEW ST
Client ID: BH2-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

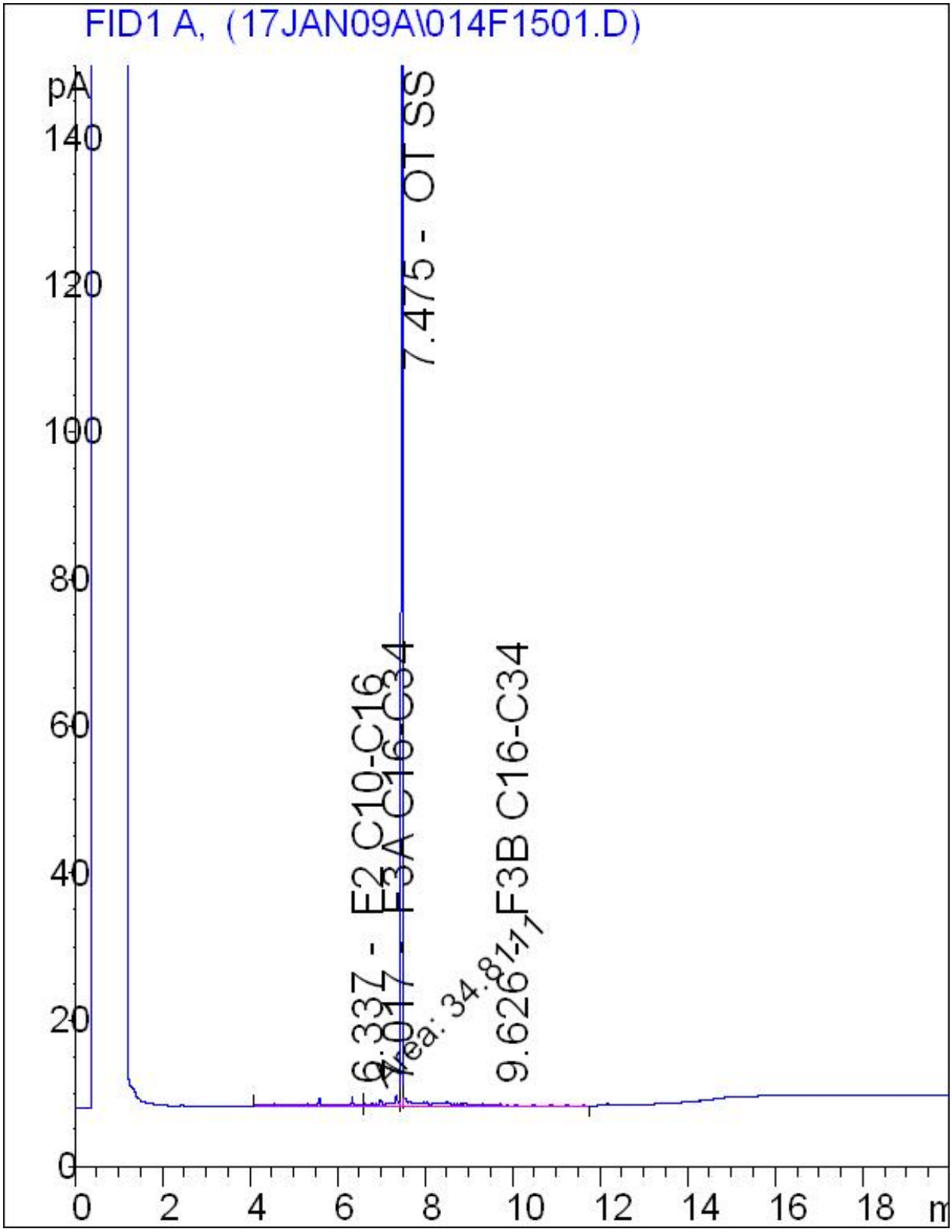


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Maxxam Job #: B703397
Report Date: 2017/01/11
Maxxam Sample: DSJ866

S2S Environmental Inc
Client Project #: 6574
Project name: NEW ST
Client ID: BH3-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

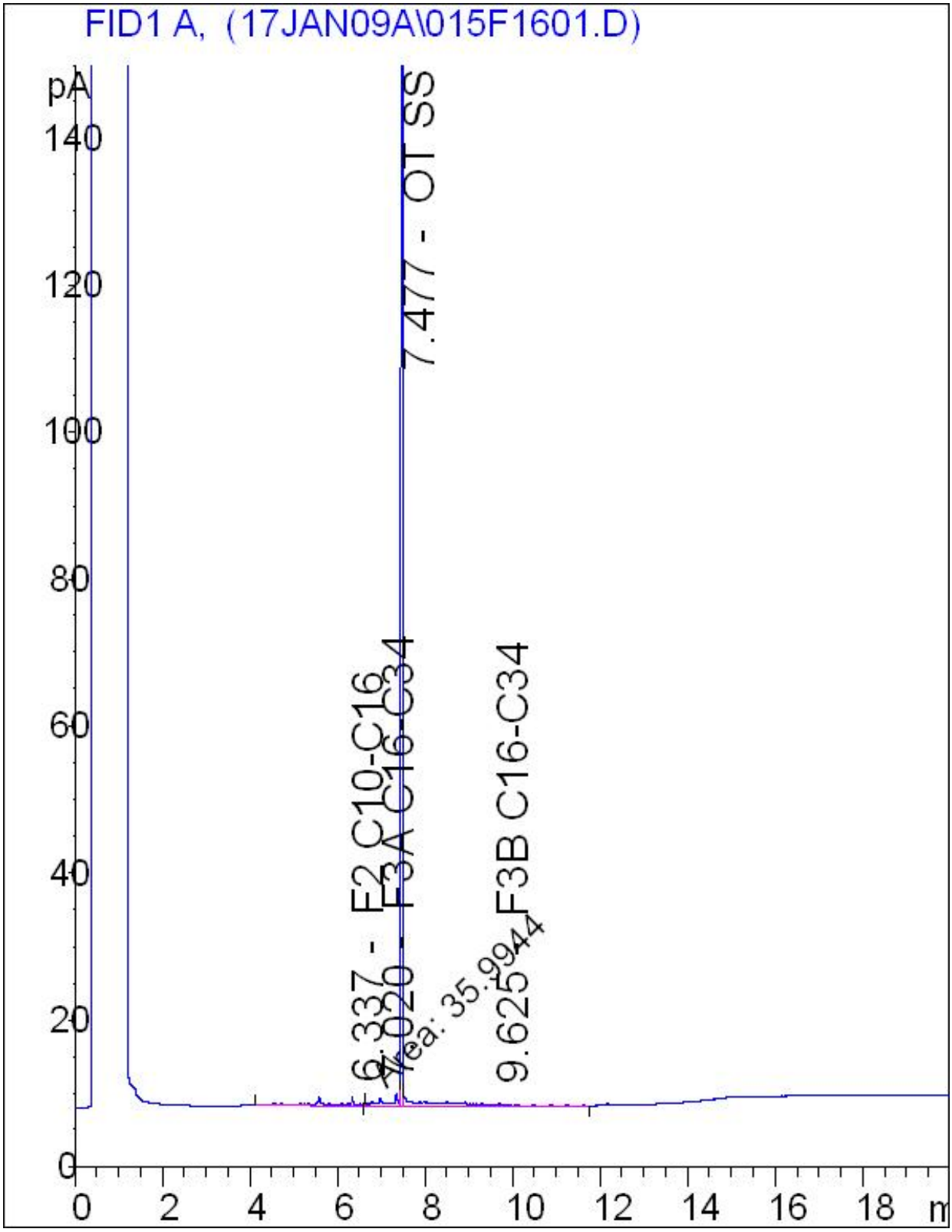


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B703397
Report Date: 2017/01/11
Maxxam Sample: DSJ871

S2S Environmental Inc
Client Project #: 6574
Project name: NEW ST
Client ID: BH4-5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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

Maxxam
A Bureau Veritas Group Company

Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW STREET
Your C.O.C. #: 593716-01-01

Attention:Kevin Bailey

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320848
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B705404
Received: 2017/01/10, 16:38

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	2	N/A	2017/01/11	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	8	N/A	2017/01/11		EPA 8260C m
Chloride by Automated Colourimetry	5	N/A	2017/01/11	CAM SOP-00463	EPA 325.2 m
Chromium (VI) in Water	5	N/A	2017/01/11	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	5	N/A	2017/01/11	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2017/01/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2017/01/10	2017/01/11	CAM SOP-00316	CCME PHC-CWS m
Mercury	5	2017/01/11	2017/01/11	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	5	N/A	2017/01/11	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	2	2017/01/11	2017/01/11	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds in Water	8	N/A	2017/01/11	CAM SOP-00228	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.

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Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW STREET
Your C.O.C. #: 593716-01-01

Attention:Kevin Bailey

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320848
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B705404

Received: 2017/01/10, 16:38

(1) 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: JGoralczyk@maxxam.ca
Phone# (905)817-5751

==========

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 Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 METALS & INORGANICS PKG (WTR)

Maxxam ID		DST556	DST556	DST557	DST559	DST560	DST561		
Sampling Date		2017/01/09 12:28	2017/01/09 12:28	2017/01/10 11:54	2017/01/10 14:24	2017/01/09 14:49	2017/01/10 10:49		
COC Number		593716-01-01	593716-01-01	593716-01-01	593716-01-01	593716-01-01	593716-01-01		
	UNITS	MW2421S	MW2421S Lab-Dup	BH1	BH2B	BH3	BH4	RDL	QC Batch
Inorganics									
Free Cyanide	ug/L	<1		<1	<1	<1	<1	1	4820691
Dissolved Chloride (Cl)	mg/L	42		70	58	20	61	1.0	4820634
Metals									
Chromium (VI)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4821142
Mercury (Hg)	ug/L	<0.1		<0.1	<0.1	<0.1	<0.1	0.1	4820555
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4820604
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4820604
Dissolved Barium (Ba)	ug/L	17	15	40	85	58	50	2.0	4820604
Dissolved Beryllium (Be)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4820604
Dissolved Boron (B)	ug/L	23	22	170	64	24	200	10	4820604
Dissolved Cadmium (Cd)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4820604
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4820604
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4820604
Dissolved Copper (Cu)	ug/L	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	1.0	4820604
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4820604
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	2.1	<0.50	<0.50	4.2	0.50	4820604
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	4820604
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4820604
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4820604
Dissolved Sodium (Na)	ug/L	23000	22000	53000	11000	12000	110000	100	4820604
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	4820604
Dissolved Uranium (U)	ug/L	0.13	0.12	0.50	0.55	0.83	0.86	0.10	4820604
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	0.50	4820604
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	4820604

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

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 METALS & INORGANICS PKG (WTR)

Maxxam ID		DST561		
Sampling Date		2017/01/10 10:49		
COC Number		593716-01-01		
	UNITS	**BH4 Lab-Dup**	**RDL**	**QC Batch**
Inorganics				
Free Cyanide	ug/L	<1	1	4820691

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

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 PAHS (WATER)

Maxxam ID		DST559	DST559	DST560		
Sampling Date		2017/01/10 14:24	2017/01/10 14:24	2017/01/09 14:49		
COC Number		593716-01-01	593716-01-01	593716-01-01		
	UNITS	BH2B	BH2B Lab-Dup	BH3	RDL	QC Batch
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/L	<0.071		<0.071	0.071	4819880
Polyaromatic Hydrocarbons						
Acenaphthene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Anthracene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Benzo(a)pyrene	ug/L	<0.010	<0.010	<0.010	0.010	4820642
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Chrysene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Dibenz(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Fluorene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Naphthalene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Phenanthrene	ug/L	<0.030	<0.030	<0.030	0.030	4820642
Pyrene	ug/L	<0.050	<0.050	<0.050	0.050	4820642
Surrogate Recovery (%)						
D10-Anthracene	%	100	99	101		4820642
D14-Terphenyl (FS)	%	100	100	104		4820642
D8-Acenaphthylene	%	96	95	96		4820642

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

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		DST556	DST557	DST559	DST560	DST561		
Sampling Date		2017/01/09 12:28	2017/01/10 11:54	2017/01/10 14:24	2017/01/09 14:49	2017/01/10 10:49		
COC Number		593716-01-01	593716-01-01	593716-01-01	593716-01-01	593716-01-01		
	UNITS	MW2421S	BH1	BH2B	BH3	BH4	RDL	QC Batch
BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	76	<25	<25	25	4820327
F1 (C6-C10) - BTEX	ug/L	<25	<25	76	<25	<25	25	4820327
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	4820398
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4820398
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	4820398
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		4820398
Hydrocarbon Resemblance	ug/L	NA (1)	NA (1)	NA (1)	NA (1)	NA (1)		4820398
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	103	101	101	101	101		4820327
4-Bromofluorobenzene	%	98	99	98	100	99		4820327
D10-Ethylbenzene	%	110	107	108	108	108		4820327
D4-1,2-Dichloroethane	%	95	99	98	97	97		4820327
o-Terphenyl	%	102	102	102	101	101		4820398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) NA: Not applicable.

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		DST555	DST556	DST556	DST557		DST558		
Sampling Date		2017/01/09 10:50	2017/01/09 12:28	2017/01/09 12:28	2017/01/10 11:54		2017/01/10 13:26		
COC Number		593716-01-01	593716-01-01	593716-01-01	593716-01-01		593716-01-01		
	UNITS	MW2421D	MW2421S	MW2421S Lab-Dup	BH1	RDL	BH2	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50		<0.50	0.50	<5.0	5.0	4819724
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	<100	100	4819252
Benzene	ug/L	<0.20	<0.20	<0.20	0.49	0.20	<2.0	2.0	4819252
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<10	10	4819252
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.20	4819252
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<2.0	2.0	4819252
Chloroform	ug/L	<0.20	<0.20	<0.20	0.33	0.20	<2.0	2.0	4819252
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<10	10	4819252
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<2.0	2.0	4819252
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	4819252
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.20	4819252
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	4819252
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	4819252
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<2.0	2.0	4819252
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	<3.0	3.0	4819252
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	<4.0	4.0	4819252
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<2.0	2.0	4819252
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.20	4819252
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	<10	10	4819252
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	<20	20	4819252
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	<100	100	4819252
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	<50	50	4819252
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252

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

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		DST555	DST556	DST556	DST557		DST558		
Sampling Date		2017/01/09 10:50	2017/01/09 12:28	2017/01/09 12:28	2017/01/10 11:54		2017/01/10 13:26		
COC Number		593716-01-01	593716-01-01	593716-01-01	593716-01-01		593716-01-01		
	UNITS	MW2421D	MW2421S	MW2421S Lab-Dup	BH1	RDL	BH2	RDL	QC Batch
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	4819252
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	4819252
Tetrachloroethylene	ug/L	220	0.57	0.57	2.6	0.20	3200	2.0	4819252
Toluene	ug/L	<0.20	<0.20	<0.20	0.36	0.20	<2.0	2.0	4819252
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<2.0	2.0	4819252
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	4819252
Trichloroethylene	ug/L	9.4	<0.20	<0.20	<0.20	0.20	12	2.0	4819252
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<5.0	5.0	4819252
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.20	4819252
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.26	0.20	<2.0	2.0	4819252
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<2.0	2.0	4819252
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.26	0.20	<2.0	2.0	4819252
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	98	98	99	98		99		4819252
D4-1,2-Dichloroethane	%	105	106	105	106		101		4819252
D8-Toluene	%	96	96	95	96		97		4819252

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

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		DST559	DST560	DST561	DST562		
Sampling Date		2017/01/10 14:24	2017/01/09 14:49	2017/01/10 10:49	2017/01/10		
COC Number		593716-01-01	593716-01-01	593716-01-01	593716-01-01		
	UNITS	BH2B	BH3	BH4	TRIP BLANK	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819724
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	4819252
Benzene	ug/L	<0.20	<0.20	0.40	<0.20	0.20	4819252
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	4819252
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
Chloroform	ug/L	9.3	<0.20	1.1	<0.20	0.20	4819252
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	4819252
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
cis-1,2-Dichloroethylene	ug/L	<0.50	1.9	<0.50	<0.50	0.50	4819252
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	4819252
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	4819252
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	4819252
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	4819252
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	4819252
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	4819252
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		DST559	DST560	DST561	DST562		
Sampling Date		2017/01/10 14:24	2017/01/09 14:49	2017/01/10 10:49	2017/01/10		
COC Number		593716-01-01	593716-01-01	593716-01-01	593716-01-01		
	UNITS	BH2B	BH3	BH4	TRIP BLANK	RDL	QC Batch
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
Tetrachloroethylene	ug/L	350	1.8	2.4	<0.20	0.20	4819252
Toluene	ug/L	<0.20	<0.20	0.26	<0.20	0.20	4819252
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
Trichloroethylene	ug/L	0.90	0.68	<0.20	<0.20	0.20	4819252
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	4819252
Vinyl Chloride	ug/L	<0.20	1.3	<0.20	<0.20	0.20	4819252
p+m-Xylene	ug/L	<0.20	<0.20	0.21	<0.20	0.20	4819252
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	4819252
Total Xylenes	ug/L	<0.20	<0.20	0.21	<0.20	0.20	4819252
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	100	100	100	98		4819252
D4-1,2-Dichloroethane	%	100	100	100	103		4819252
D8-Toluene	%	98	98	98	97		4819252

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

TEST SUMMARY

Maxxam ID: DST555 **Collected:** 2017/01/09
Sample ID: MW2421D **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST556 **Collected:** 2017/01/09
Sample ID: MW2421S **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Chloride by Automated Colourimetry	KONE	4820634	N/A	2017/01/11	Deonarine Ramnarine
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4820327	N/A	2017/01/11	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4820398	2017/01/10	2017/01/11	Barbara Wowk
Mercury	CV/AA	4820555	2017/01/11	2017/01/11	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST556 Dup **Collected:** 2017/01/09
Sample ID: MW2421S **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST557 **Collected:** 2017/01/10
Sample ID: BH1 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Chloride by Automated Colourimetry	KONE	4820634	N/A	2017/01/11	Deonarine Ramnarine
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4820327	N/A	2017/01/11	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4820398	2017/01/10	2017/01/11	Barbara Wowk
Mercury	CV/AA	4820555	2017/01/11	2017/01/11	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

TEST SUMMARY

Maxxam ID: DST558 **Collected:** 2017/01/10
Sample ID: BH2 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST559 **Collected:** 2017/01/10
Sample ID: BH2B **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4819880	N/A	2017/01/11	Automated Statchk
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Chloride by Automated Colourimetry	KONE	4820634	N/A	2017/01/11	Deonarine Ramnarine
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4820327	N/A	2017/01/11	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4820398	2017/01/10	2017/01/11	Barbara Wowk
Mercury	CV/AA	4820555	2017/01/11	2017/01/11	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran
PAH Compounds in Water by GC/MS (SIM)	GC/MS	4820642	2017/01/11	2017/01/11	Jett Wu
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST559 Dup **Collected:** 2017/01/10
Sample ID: BH2B **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Water by GC/MS (SIM)	GC/MS	4820642	2017/01/11	2017/01/11	Jett Wu

Maxxam ID: DST560 **Collected:** 2017/01/09
Sample ID: BH3 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4819880	N/A	2017/01/11	Automated Statchk
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Chloride by Automated Colourimetry	KONE	4820634	N/A	2017/01/11	Deonarine Ramnarine
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4820327	N/A	2017/01/11	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4820398	2017/01/10	2017/01/11	Barbara Wowk
Mercury	CV/AA	4820555	2017/01/11	2017/01/11	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran
PAH Compounds in Water by GC/MS (SIM)	GC/MS	4820642	2017/01/11	2017/01/11	Jett Wu
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

TEST SUMMARY

Maxxam ID: DST561
Sample ID: BH4
Matrix: Water

Collected: 2017/01/10
Shipped:
Received: 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Chloride by Automated Colourimetry	KONE	4820634	N/A	2017/01/11	Deonarine Ramnarine
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4820327	N/A	2017/01/11	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4820398	2017/01/10	2017/01/11	Barbara Wowk
Mercury	CV/AA	4820555	2017/01/11	2017/01/11	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST561 Dup
Sample ID: BH4
Matrix: Water

Collected: 2017/01/10
Shipped:
Received: 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding

Maxxam ID: DST562
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2017/01/10
Shipped:
Received: 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

GENERAL COMMENTS

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

Package 1	2.0°C
Package 2	2.3°C

Sample DST558 [BH2] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria or to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample DST559 [BH2B] : F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis . And the contamination in the F1 range is mainly due to a single peak eluted at 5.81 Min, not a hydrocarbon mix.

Results relate only to the items tested.

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4819252	MS4	Matrix Spike [DST555-01]	4-Bromofluorobenzene	2017/01/11		100	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		103	%	70 - 130
			D8-Toluene	2017/01/11		100	%	70 - 130
			Acetone (2-Propanone)	2017/01/11		94	%	60 - 140
			Benzene	2017/01/11		95	%	70 - 130
			Bromodichloromethane	2017/01/11		96	%	70 - 130
			Bromoform	2017/01/11		95	%	70 - 130
			Bromomethane	2017/01/11		84	%	60 - 140
			Carbon Tetrachloride	2017/01/11		97	%	70 - 130
			Chlorobenzene	2017/01/11		95	%	70 - 130
			Chloroform	2017/01/11		94	%	70 - 130
			Dibromochloromethane	2017/01/11		95	%	70 - 130
			1,2-Dichlorobenzene	2017/01/11		92	%	70 - 130
			1,3-Dichlorobenzene	2017/01/11		91	%	70 - 130
			1,4-Dichlorobenzene	2017/01/11		92	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2017/01/11		97	%	60 - 140
			1,1-Dichloroethane	2017/01/11		95	%	70 - 130
			1,2-Dichloroethane	2017/01/11		94	%	70 - 130
			1,1-Dichloroethylene	2017/01/11		98	%	70 - 130
			cis-1,2-Dichloroethylene	2017/01/11		100	%	70 - 130
			trans-1,2-Dichloroethylene	2017/01/11		95	%	70 - 130
			1,2-Dichloropropane	2017/01/11		94	%	70 - 130
			cis-1,3-Dichloropropene	2017/01/11		100	%	70 - 130
			trans-1,3-Dichloropropene	2017/01/11		101	%	70 - 130
			Ethylbenzene	2017/01/11		93	%	70 - 130
			Ethylene Dibromide	2017/01/11		96	%	70 - 130
			Hexane	2017/01/11		101	%	70 - 130
			Methylene Chloride(Dichloromethane)	2017/01/11		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11		97	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/11		100	%	70 - 130
			Methyl t-butyl ether (MTBE)	2017/01/11		97	%	70 - 130
			Styrene	2017/01/11		95	%	70 - 130
			1,1,1,2-Tetrachloroethane	2017/01/11		94	%	70 - 130
			1,1,2,2-Tetrachloroethane	2017/01/11		95	%	70 - 130
			Tetrachloroethylene	2017/01/11		NC	%	70 - 130
			Toluene	2017/01/11		92	%	70 - 130
			1,1,1-Trichloroethane	2017/01/11		94	%	70 - 130
			1,1,2-Trichloroethane	2017/01/11		95	%	70 - 130
			Trichloroethylene	2017/01/11		94	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2017/01/11		98	%	70 - 130
			Vinyl Chloride	2017/01/11		100	%	70 - 130
			p+m-Xylene	2017/01/11		92	%	70 - 130
			o-Xylene	2017/01/11		90	%	70 - 130
4819252	MS4	Spiked Blank	4-Bromofluorobenzene	2017/01/11		101	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		101	%	70 - 130
			D8-Toluene	2017/01/11		101	%	70 - 130
			Acetone (2-Propanone)	2017/01/11		97	%	60 - 140
			Benzene	2017/01/11		96	%	70 - 130
			Bromodichloromethane	2017/01/11		97	%	70 - 130
			Bromoform	2017/01/11		96	%	70 - 130
			Bromomethane	2017/01/11		85	%	60 - 140
			Carbon Tetrachloride	2017/01/11		99	%	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2017/01/11		98	%	70 - 130
			Chloroform	2017/01/11		95	%	70 - 130
			Dibromochloromethane	2017/01/11		97	%	70 - 130
			1,2-Dichlorobenzene	2017/01/11		94	%	70 - 130
			1,3-Dichlorobenzene	2017/01/11		93	%	70 - 130
			1,4-Dichlorobenzene	2017/01/11		94	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2017/01/11		102	%	60 - 140
			1,1-Dichloroethane	2017/01/11		97	%	70 - 130
			1,2-Dichloroethane	2017/01/11		94	%	70 - 130
			1,1-Dichloroethylene	2017/01/11		100	%	70 - 130
			cis-1,2-Dichloroethylene	2017/01/11		101	%	70 - 130
			trans-1,2-Dichloroethylene	2017/01/11		97	%	70 - 130
			1,2-Dichloropropane	2017/01/11		96	%	70 - 130
			cis-1,3-Dichloropropene	2017/01/11		99	%	70 - 130
			trans-1,3-Dichloropropene	2017/01/11		100	%	70 - 130
			Ethylbenzene	2017/01/11		96	%	70 - 130
			Ethylene Dibromide	2017/01/11		97	%	70 - 130
			Hexane	2017/01/11		104	%	70 - 130
			Methylene Chloride(Dichloromethane)	2017/01/11		101	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11		99	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/11		100	%	70 - 130
			Methyl t-butyl ether (MTBE)	2017/01/11		98	%	70 - 130
			Styrene	2017/01/11		98	%	70 - 130
			1,1,1,2-Tetrachloroethane	2017/01/11		96	%	70 - 130
			1,1,2,2-Tetrachloroethane	2017/01/11		97	%	70 - 130
			Tetrachloroethylene	2017/01/11		97	%	70 - 130
			Toluene	2017/01/11		95	%	70 - 130
			1,1,1-Trichloroethane	2017/01/11		97	%	70 - 130
			1,1,2-Trichloroethane	2017/01/11		97	%	70 - 130
			Trichloroethylene	2017/01/11		96	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2017/01/11		100	%	70 - 130
			Vinyl Chloride	2017/01/11		103	%	70 - 130
			p+m-Xylene	2017/01/11		95	%	70 - 130
			o-Xylene	2017/01/11		94	%	70 - 130
4819252	MS4	Method Blank	4-Bromofluorobenzene	2017/01/11		99	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		103	%	70 - 130
			D8-Toluene	2017/01/11		97	%	70 - 130
			Acetone (2-Propanone)	2017/01/11	<10		ug/L	
			Benzene	2017/01/11	<0.20		ug/L	
			Bromodichloromethane	2017/01/11	<0.50		ug/L	
			Bromoform	2017/01/11	<1.0		ug/L	
			Bromomethane	2017/01/11	<0.50		ug/L	
			Carbon Tetrachloride	2017/01/11	<0.20		ug/L	
			Chlorobenzene	2017/01/11	<0.20		ug/L	
			Chloroform	2017/01/11	<0.20		ug/L	
			Dibromochloromethane	2017/01/11	<0.50		ug/L	
			1,2-Dichlorobenzene	2017/01/11	<0.50		ug/L	
			1,3-Dichlorobenzene	2017/01/11	<0.50		ug/L	
			1,4-Dichlorobenzene	2017/01/11	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2017/01/11	<1.0		ug/L	
			1,1-Dichloroethane	2017/01/11	<0.20		ug/L	
			1,2-Dichloroethane	2017/01/11	<0.50		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1-Dichloroethylene	2017/01/11	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2017/01/11	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2017/01/11	<0.50		ug/L	
			1,2-Dichloropropane	2017/01/11	<0.20		ug/L	
			cis-1,3-Dichloropropene	2017/01/11	<0.30		ug/L	
			trans-1,3-Dichloropropene	2017/01/11	<0.40		ug/L	
			Ethylbenzene	2017/01/11	<0.20		ug/L	
			Ethylene Dibromide	2017/01/11	<0.20		ug/L	
			Hexane	2017/01/11	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2017/01/11	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11	<10		ug/L	
			Methyl Isobutyl Ketone	2017/01/11	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2017/01/11	<0.50		ug/L	
			Styrene	2017/01/11	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2017/01/11	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2017/01/11	<0.50		ug/L	
			Tetrachloroethylene	2017/01/11	<0.20		ug/L	
			Toluene	2017/01/11	<0.20		ug/L	
			1,1,1-Trichloroethane	2017/01/11	<0.20		ug/L	
			1,1,2-Trichloroethane	2017/01/11	<0.50		ug/L	
			Trichloroethylene	2017/01/11	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2017/01/11	<0.50		ug/L	
			Vinyl Chloride	2017/01/11	<0.20		ug/L	
			p+m-Xylene	2017/01/11	<0.20		ug/L	
			o-Xylene	2017/01/11	<0.20		ug/L	
			Total Xylenes	2017/01/11	<0.20		ug/L	
4819252	MS4	RPD [DST556-02]	Acetone (2-Propanone)	2017/01/11	NC		%	30
			Benzene	2017/01/11	NC		%	30
			Bromodichloromethane	2017/01/11	NC		%	30
			Bromoform	2017/01/11	NC		%	30
			Bromomethane	2017/01/11	NC		%	30
			Carbon Tetrachloride	2017/01/11	NC		%	30
			Chlorobenzene	2017/01/11	NC		%	30
			Chloroform	2017/01/11	NC		%	30
			Dibromochloromethane	2017/01/11	NC		%	30
			1,2-Dichlorobenzene	2017/01/11	NC		%	30
			1,3-Dichlorobenzene	2017/01/11	NC		%	30
			1,4-Dichlorobenzene	2017/01/11	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2017/01/11	NC		%	30
			1,1-Dichloroethane	2017/01/11	NC		%	30
			1,2-Dichloroethane	2017/01/11	NC		%	30
			1,1-Dichloroethylene	2017/01/11	NC		%	30
			cis-1,2-Dichloroethylene	2017/01/11	NC		%	30
			trans-1,2-Dichloroethylene	2017/01/11	NC		%	30
			1,2-Dichloropropane	2017/01/11	NC		%	30
			cis-1,3-Dichloropropene	2017/01/11	NC		%	30
			trans-1,3-Dichloropropene	2017/01/11	NC		%	30
			Ethylbenzene	2017/01/11	NC		%	30
			Ethylene Dibromide	2017/01/11	NC		%	30
			Hexane	2017/01/11	NC		%	30
			Methylene Chloride(Dichloromethane)	2017/01/11	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11	NC		%	30

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Isobutyl Ketone	2017/01/11	NC		%	30
			Methyl t-butyl ether (MTBE)	2017/01/11	NC		%	30
			Styrene	2017/01/11	NC		%	30
			1,1,1,2-Tetrachloroethane	2017/01/11	NC		%	30
			1,1,2,2-Tetrachloroethane	2017/01/11	NC		%	30
			Tetrachloroethylene	2017/01/11	NC		%	30
			Toluene	2017/01/11	NC		%	30
			1,1,1-Trichloroethane	2017/01/11	NC		%	30
			1,1,2-Trichloroethane	2017/01/11	NC		%	30
			Trichloroethylene	2017/01/11	NC		%	30
			Trichlorofluoromethane (FREON 11)	2017/01/11	NC		%	30
			Vinyl Chloride	2017/01/11	NC		%	30
			p+m-Xylene	2017/01/11	NC		%	30
			o-Xylene	2017/01/11	NC		%	30
			Total Xylenes	2017/01/11	NC		%	30
4820327	RGA	Matrix Spike	1,4-Difluorobenzene	2017/01/11		100	%	70 - 130
			4-Bromofluorobenzene	2017/01/11		101	%	70 - 130
			D10-Ethylbenzene	2017/01/11		102	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		99	%	70 - 130
			F1 (C6-C10)	2017/01/11		74	%	70 - 130
4820327	RGA	Spiked Blank	1,4-Difluorobenzene	2017/01/11		100	%	70 - 130
			4-Bromofluorobenzene	2017/01/11		100	%	70 - 130
			D10-Ethylbenzene	2017/01/11		103	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		101	%	70 - 130
			F1 (C6-C10)	2017/01/11		107	%	70 - 130
4820327	RGA	Method Blank	1,4-Difluorobenzene	2017/01/11		101	%	70 - 130
			4-Bromofluorobenzene	2017/01/11		100	%	70 - 130
			D10-Ethylbenzene	2017/01/11		100	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		101	%	70 - 130
			F1 (C6-C10)	2017/01/11	<25		ug/L	
			F1 (C6-C10) - BTEX	2017/01/11	<25		ug/L	
4820327	RGA	RPD	F1 (C6-C10)	2017/01/11	NC		%	30
			F1 (C6-C10) - BTEX	2017/01/11	NC		%	30
4820398	BWW	Matrix Spike	o-Terphenyl	2017/01/11		105	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/11		111	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2017/01/11		108	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2017/01/11		109	%	50 - 130
4820398	BWW	Spiked Blank	o-Terphenyl	2017/01/11		106	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/11		105	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2017/01/11		113	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2017/01/11		112	%	60 - 130
4820398	BWW	Method Blank	o-Terphenyl	2017/01/11		103	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/11	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2017/01/11	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2017/01/11	<200		ug/L	
4820398	BWW	RPD	F2 (C10-C16 Hydrocarbons)	2017/01/11	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2017/01/11	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2017/01/11	NC		%	30
4820555	MC	Matrix Spike	Mercury (Hg)	2017/01/11		102	%	75 - 125
4820555	MC	Spiked Blank	Mercury (Hg)	2017/01/11		107	%	80 - 120
4820555	MC	Method Blank	Mercury (Hg)	2017/01/11	<0.1		ug/L	
4820555	MC	RPD	Mercury (Hg)	2017/01/11	NC		%	20

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4820604	CPE	Matrix Spike [DST556-07]	Dissolved Antimony (Sb)	2017/01/11		104	%	80 - 120
			Dissolved Arsenic (As)	2017/01/11		98	%	80 - 120
			Dissolved Barium (Ba)	2017/01/11		100	%	80 - 120
			Dissolved Beryllium (Be)	2017/01/11		103	%	80 - 120
			Dissolved Boron (B)	2017/01/11		102	%	80 - 120
			Dissolved Cadmium (Cd)	2017/01/11		103	%	80 - 120
			Dissolved Chromium (Cr)	2017/01/11		99	%	80 - 120
			Dissolved Cobalt (Co)	2017/01/11		97	%	80 - 120
			Dissolved Copper (Cu)	2017/01/11		99	%	80 - 120
			Dissolved Lead (Pb)	2017/01/11		96	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/01/11		102	%	80 - 120
			Dissolved Nickel (Ni)	2017/01/11		97	%	80 - 120
			Dissolved Selenium (Se)	2017/01/11		99	%	80 - 120
			Dissolved Silver (Ag)	2017/01/11		98	%	80 - 120
			Dissolved Sodium (Na)	2017/01/11		NC	%	80 - 120
			Dissolved Thallium (Tl)	2017/01/11		96	%	80 - 120
			Dissolved Uranium (U)	2017/01/11		101	%	80 - 120
			Dissolved Vanadium (V)	2017/01/11		98	%	80 - 120
			Dissolved Zinc (Zn)	2017/01/11		98	%	80 - 120
4820604	CPE	Spiked Blank	Dissolved Antimony (Sb)	2017/01/11		99	%	80 - 120
			Dissolved Arsenic (As)	2017/01/11		96	%	80 - 120
			Dissolved Barium (Ba)	2017/01/11		96	%	80 - 120
			Dissolved Beryllium (Be)	2017/01/11		101	%	80 - 120
			Dissolved Boron (B)	2017/01/11		101	%	80 - 120
			Dissolved Cadmium (Cd)	2017/01/11		97	%	80 - 120
			Dissolved Chromium (Cr)	2017/01/11		96	%	80 - 120
			Dissolved Cobalt (Co)	2017/01/11		96	%	80 - 120
			Dissolved Copper (Cu)	2017/01/11		96	%	80 - 120
			Dissolved Lead (Pb)	2017/01/11		95	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/01/11		97	%	80 - 120
			Dissolved Nickel (Ni)	2017/01/11		96	%	80 - 120
			Dissolved Selenium (Se)	2017/01/11		97	%	80 - 120
			Dissolved Silver (Ag)	2017/01/11		95	%	80 - 120
			Dissolved Sodium (Na)	2017/01/11		100	%	80 - 120
			Dissolved Thallium (Tl)	2017/01/11		94	%	80 - 120
			Dissolved Uranium (U)	2017/01/11		98	%	80 - 120
			Dissolved Vanadium (V)	2017/01/11		95	%	80 - 120
			Dissolved Zinc (Zn)	2017/01/11		96	%	80 - 120
4820604	CPE	Method Blank	Dissolved Antimony (Sb)	2017/01/11	<0.50		ug/L	
			Dissolved Arsenic (As)	2017/01/11	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/01/11	<2.0		ug/L	
			Dissolved Beryllium (Be)	2017/01/11	<0.50		ug/L	
			Dissolved Boron (B)	2017/01/11	<10		ug/L	
			Dissolved Cadmium (Cd)	2017/01/11	<0.10		ug/L	
			Dissolved Chromium (Cr)	2017/01/11	<5.0		ug/L	
			Dissolved Cobalt (Co)	2017/01/11	<0.50		ug/L	
			Dissolved Copper (Cu)	2017/01/11	<1.0		ug/L	
			Dissolved Lead (Pb)	2017/01/11	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2017/01/11	<0.50		ug/L	
			Dissolved Nickel (Ni)	2017/01/11	<1.0		ug/L	
			Dissolved Selenium (Se)	2017/01/11	<2.0		ug/L	
			Dissolved Silver (Ag)	2017/01/11	<0.10		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Sodium (Na)	2017/01/11	<100		ug/L	
			Dissolved Thallium (Tl)	2017/01/11	<0.050		ug/L	
			Dissolved Uranium (U)	2017/01/11	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/01/11	<0.50		ug/L	
			Dissolved Zinc (Zn)	2017/01/11	<5.0		ug/L	
4820604	CPE	RPD [DST556-07]	Dissolved Antimony (Sb)	2017/01/11	NC		%	20
			Dissolved Arsenic (As)	2017/01/11	NC		%	20
			Dissolved Barium (Ba)	2017/01/11	9.5		%	20
			Dissolved Beryllium (Be)	2017/01/11	NC		%	20
			Dissolved Boron (B)	2017/01/11	NC		%	20
			Dissolved Cadmium (Cd)	2017/01/11	NC		%	20
			Dissolved Chromium (Cr)	2017/01/11	NC		%	20
			Dissolved Cobalt (Co)	2017/01/11	NC		%	20
			Dissolved Copper (Cu)	2017/01/11	NC		%	20
			Dissolved Lead (Pb)	2017/01/11	NC		%	20
			Dissolved Molybdenum (Mo)	2017/01/11	NC		%	20
			Dissolved Nickel (Ni)	2017/01/11	NC		%	20
			Dissolved Selenium (Se)	2017/01/11	NC		%	20
			Dissolved Silver (Ag)	2017/01/11	NC		%	20
			Dissolved Sodium (Na)	2017/01/11	1.9		%	20
			Dissolved Thallium (Tl)	2017/01/11	NC		%	20
			Dissolved Uranium (U)	2017/01/11	NC		%	20
			Dissolved Vanadium (V)	2017/01/11	NC		%	20
			Dissolved Zinc (Zn)	2017/01/11	NC		%	20
4820634	DRM	Matrix Spike	Dissolved Chloride (Cl)	2017/01/11		NC	%	80 - 120
4820634	DRM	Spiked Blank	Dissolved Chloride (Cl)	2017/01/11		104	%	80 - 120
4820634	DRM	Method Blank	Dissolved Chloride (Cl)	2017/01/11	<1.0		mg/L	
4820634	DRM	RPD	Dissolved Chloride (Cl)	2017/01/11	0.87		%	20
4820642	JET	Matrix Spike [DST560-09]	D10-Anthracene	2017/01/11		96	%	50 - 130
			D14-Terphenyl (FS)	2017/01/11		100	%	50 - 130
			D8-Acenaphthylene	2017/01/11		94	%	50 - 130
			Acenaphthene	2017/01/11		92	%	50 - 130
			Acenaphthylene	2017/01/11		92	%	50 - 130
			Anthracene	2017/01/11		86	%	50 - 130
			Benzo(a)anthracene	2017/01/11		90	%	50 - 130
			Benzo(a)pyrene	2017/01/11		93	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/11		95	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/11		88	%	50 - 130
			Benzo(k)fluoranthene	2017/01/11		94	%	50 - 130
			Chrysene	2017/01/11		92	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/11		84	%	50 - 130
			Fluoranthene	2017/01/11		100	%	50 - 130
			Fluorene	2017/01/11		92	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/11		88	%	50 - 130
			1-Methylnaphthalene	2017/01/11		94	%	50 - 130
			2-Methylnaphthalene	2017/01/11		94	%	50 - 130
			Naphthalene	2017/01/11		87	%	50 - 130
			Phenanthrene	2017/01/11		92	%	50 - 130
			Pyrene	2017/01/11		103	%	50 - 130
4820642	JET	Spiked Blank	D10-Anthracene	2017/01/11		100	%	50 - 130
			D14-Terphenyl (FS)	2017/01/11		101	%	50 - 130
			D8-Acenaphthylene	2017/01/11		95	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acenaphthene	2017/01/11		92	%	50 - 130
			Acenaphthylene	2017/01/11		91	%	50 - 130
			Anthracene	2017/01/11		88	%	50 - 130
			Benzo(a)anthracene	2017/01/11		95	%	50 - 130
			Benzo(a)pyrene	2017/01/11		98	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/11		101	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/11		100	%	50 - 130
			Benzo(k)fluoranthene	2017/01/11		99	%	50 - 130
			Chrysene	2017/01/11		97	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/11		94	%	50 - 130
			Fluoranthene	2017/01/11		99	%	50 - 130
			Fluorene	2017/01/11		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/11		99	%	50 - 130
			1-Methylnaphthalene	2017/01/11		84	%	50 - 130
			2-Methylnaphthalene	2017/01/11		83	%	50 - 130
			Naphthalene	2017/01/11		81	%	50 - 130
			Phenanthrene	2017/01/11		95	%	50 - 130
			Pyrene	2017/01/11		102	%	50 - 130
4820642	JET	Method Blank	D10-Anthracene	2017/01/11		101	%	50 - 130
			D14-Terphenyl (FS)	2017/01/11		103	%	50 - 130
			D8-Acenaphthylene	2017/01/11		96	%	50 - 130
			Acenaphthene	2017/01/11	<0.050		ug/L	
			Acenaphthylene	2017/01/11	<0.050		ug/L	
			Anthracene	2017/01/11	<0.050		ug/L	
			Benzo(a)anthracene	2017/01/11	<0.050		ug/L	
			Benzo(a)pyrene	2017/01/11	<0.010		ug/L	
			Benzo(b/j)fluoranthene	2017/01/11	<0.050		ug/L	
			Benzo(g,h,i)perylene	2017/01/11	<0.050		ug/L	
			Benzo(k)fluoranthene	2017/01/11	<0.050		ug/L	
			Chrysene	2017/01/11	<0.050		ug/L	
			Dibenz(a,h)anthracene	2017/01/11	<0.050		ug/L	
			Fluoranthene	2017/01/11	<0.050		ug/L	
			Fluorene	2017/01/11	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2017/01/11	<0.050		ug/L	
			1-Methylnaphthalene	2017/01/11	<0.050		ug/L	
			2-Methylnaphthalene	2017/01/11	<0.050		ug/L	
			Naphthalene	2017/01/11	<0.050		ug/L	
			Phenanthrene	2017/01/11	<0.030		ug/L	
			Pyrene	2017/01/11	<0.050		ug/L	
4820642	JET	RPD [DST559-09]	Acenaphthene	2017/01/11	NC		%	30
			Acenaphthylene	2017/01/11	NC		%	30
			Anthracene	2017/01/11	NC		%	30
			Benzo(a)anthracene	2017/01/11	NC		%	30
			Benzo(a)pyrene	2017/01/11	NC		%	30
			Benzo(b/j)fluoranthene	2017/01/11	NC		%	30
			Benzo(g,h,i)perylene	2017/01/11	NC		%	30
			Benzo(k)fluoranthene	2017/01/11	NC		%	30
			Chrysene	2017/01/11	NC		%	30
			Dibenz(a,h)anthracene	2017/01/11	NC		%	30
			Fluoranthene	2017/01/11	NC		%	30
			Fluorene	2017/01/11	NC		%	30
			Indeno(1,2,3-cd)pyrene	2017/01/11	NC		%	30

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1-Methylnaphthalene	2017/01/11	NC		%	30
			2-Methylnaphthalene	2017/01/11	NC		%	30
			Naphthalene	2017/01/11	NC		%	30
			Phenanthrene	2017/01/11	NC		%	30
			Pyrene	2017/01/11	NC		%	30
4820691	LHA	Matrix Spike [DST561-06]	Free Cyanide	2017/01/11		97	%	80 - 120
4820691	LHA	Spiked Blank	Free Cyanide	2017/01/11		102	%	80 - 120
4820691	LHA	Method Blank	Free Cyanide	2017/01/11	<1		ug/L	
4820691	LHA	RPD [DST561-06]	Free Cyanide	2017/01/11	NC		%	20
4821142	LLE	Matrix Spike [DST556-05]	Chromium (VI)	2017/01/11		106	%	80 - 120
4821142	LLE	Spiked Blank	Chromium (VI)	2017/01/11		108	%	80 - 120
4821142	LLE	Method Blank	Chromium (VI)	2017/01/11	<0.50		ug/L	
4821142	LLE	RPD [DST556-05]	Chromium (VI)	2017/01/11	NC		%	20

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.

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 spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of 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 (one or both samples < 5x RDL).

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Maxxam Job #: B705404
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

VALIDATION SIGNATURE PAGE

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

Brad Newman, Scientific Specialist

Cristina Carriere, Scientific Services

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
A Bureau Veritas Group Company

Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW STREET
Your C.O.C. #: 593716-02-01

Attention:Kevin Bailey

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320847
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B705415
Received: 2017/01/10, 16:38

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	1	N/A	2017/01/11	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	1	N/A	2017/01/11		EPA 8260C m
Chloride by Automated Colourimetry	1	N/A	2017/01/11	CAM SOP-00463	EPA 325.2 m
Chromium (VI) in Water	1	N/A	2017/01/11	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	1	N/A	2017/01/11	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2017/01/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2017/01/10	2017/01/11	CAM SOP-00316	CCME PHC-CWS m
Mercury	1	2017/01/11	2017/01/11	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	1	N/A	2017/01/11	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2017/01/11	2017/01/11	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds in Water	1	N/A	2017/01/11	CAM SOP-00228	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.

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Your P.O. #: 6574-KAB
Your Project #: 6574
Site Location: NEW STREET
Your C.O.C. #: 593716-02-01

Attention:Kevin Bailey

S2S Environmental Inc
1099 Kingston Rd
Suite 260
Pickering, ON
L1V 1B5

Report Date: 2017/01/11
Report #: R4320847
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B705415
Received: 2017/01/10, 16:38

(1) 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: JGoralczyk@maxxam.ca
Phone# (905)817-5751

==========

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 METALS & INORGANICS PKG (WTR)

Maxxam ID		DST620		
Sampling Date		2017/01/10		
COC Number		593716-02-01		
	UNITS	**DUP4**	**RDL**	**QC Batch**
Inorganics				
Free Cyanide	ug/L	<1	1	4820691
Dissolved Chloride (Cl)	mg/L	61	1.0	4820634
Metals				
Chromium (VI)	ug/L	<0.50	0.50	4821142
Mercury (Hg)	ug/L	<0.1	0.1	4820555
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	4820604
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4820604
Dissolved Barium (Ba)	ug/L	48	2.0	4820604
Dissolved Beryllium (Be)	ug/L	<0.50	0.50	4820604
Dissolved Boron (B)	ug/L	200	10	4820604
Dissolved Cadmium (Cd)	ug/L	<0.10	0.10	4820604
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	4820604
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	4820604
Dissolved Copper (Cu)	ug/L	<1.0	1.0	4820604
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4820604
Dissolved Molybdenum (Mo)	ug/L	4.0	0.50	4820604
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	4820604
Dissolved Selenium (Se)	ug/L	<2.0	2.0	4820604
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4820604
Dissolved Sodium (Na)	ug/L	100000	100	4820604
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	4820604
Dissolved Uranium (U)	ug/L	0.82	0.10	4820604
Dissolved Vanadium (V)	ug/L	0.59	0.50	4820604
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4820604

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 PAHS (WATER)

Maxxam ID		DST619		
Sampling Date		2017/01/09 14:49		
COC Number		593716-02-01		
	UNITS	DUP3	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	4819880
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	4820642
Acenaphthylene	ug/L	<0.050	0.050	4820642
Anthracene	ug/L	<0.050	0.050	4820642
Benzo(a)anthracene	ug/L	<0.050	0.050	4820642
Benzo(a)pyrene	ug/L	<0.010	0.010	4820642
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	4820642
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	4820642
Benzo(k)fluoranthene	ug/L	<0.050	0.050	4820642
Chrysene	ug/L	<0.050	0.050	4820642
Dibenz(a,h)anthracene	ug/L	<0.050	0.050	4820642
Fluoranthene	ug/L	<0.050	0.050	4820642
Fluorene	ug/L	<0.050	0.050	4820642
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	4820642
1-Methylnaphthalene	ug/L	<0.050	0.050	4820642
2-Methylnaphthalene	ug/L	<0.050	0.050	4820642
Naphthalene	ug/L	<0.050	0.050	4820642
Phenanthrene	ug/L	<0.030	0.030	4820642
Pyrene	ug/L	<0.050	0.050	4820642
Surrogate Recovery (%)				
D10-Anthracene	%	99		4820642
D14-Terphenyl (FS)	%	100		4820642
D8-Acenaphthylene	%	96		4820642

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		DST618		
Sampling Date		2017/01/09 12:28		
COC Number		593716-02-01		
	UNITS	**DUP2**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	4820327
Toluene	ug/L	<0.20	0.20	4820327
Ethylbenzene	ug/L	<0.20	0.20	4820327
o-Xylene	ug/L	<0.20	0.20	4820327
p+m-Xylene	ug/L	<0.40	0.40	4820327
Total Xylenes	ug/L	<0.40	0.40	4820327
F1 (C6-C10)	ug/L	<25	25	4820327
F1 (C6-C10) - BTEX	ug/L	<25	25	4820327
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	4820398
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	4820398
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	4820398
Reached Baseline at C50	ug/L	Yes		4820398
Hydrocarbon Resemblance	ug/L	NA (1)		4820398
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	100		4820327
4-Bromofluorobenzene	%	98		4820327
D10-Ethylbenzene	%	108		4820327
D4-1,2-Dichloroethane	%	97		4820327
o-Terphenyl	%	100		4820398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) NA: Not applicable.

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		DST617		
Sampling Date		2017/01/09 10:50		
COC Number		593716-02-01		
	UNITS	DUP1	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	4819724
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	4819252
Benzene	ug/L	<0.20	0.20	4819252
Bromodichloromethane	ug/L	<0.50	0.50	4819252
Bromoform	ug/L	<1.0	1.0	4819252
Bromomethane	ug/L	<0.50	0.50	4819252
Carbon Tetrachloride	ug/L	<0.20	0.20	4819252
Chlorobenzene	ug/L	<0.20	0.20	4819252
Chloroform	ug/L	<0.20	0.20	4819252
Dibromochloromethane	ug/L	<0.50	0.50	4819252
1,2-Dichlorobenzene	ug/L	<0.50	0.50	4819252
1,3-Dichlorobenzene	ug/L	<0.50	0.50	4819252
1,4-Dichlorobenzene	ug/L	<0.50	0.50	4819252
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	4819252
1,1-Dichloroethane	ug/L	<0.20	0.20	4819252
1,2-Dichloroethane	ug/L	<0.50	0.50	4819252
1,1-Dichloroethylene	ug/L	<0.20	0.20	4819252
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	4819252
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	4819252
1,2-Dichloropropane	ug/L	<0.20	0.20	4819252
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	4819252
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	4819252
Ethylbenzene	ug/L	<0.20	0.20	4819252
Ethylene Dibromide	ug/L	<0.20	0.20	4819252
Hexane	ug/L	<1.0	1.0	4819252
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	4819252
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	4819252
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	4819252
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	4819252

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

O.REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		DST617		
Sampling Date		2017/01/09 10:50		
COC Number		593716-02-01		
	UNITS	**DUP1**	**RDL**	**QC Batch**
Styrene	ug/L	<0.50	0.50	4819252
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	4819252
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	4819252
Tetrachloroethylene	ug/L	220	0.20	4819252
Toluene	ug/L	<0.20	0.20	4819252
1,1,1-Trichloroethane	ug/L	<0.20	0.20	4819252
1,1,2-Trichloroethane	ug/L	<0.50	0.50	4819252
Trichloroethylene	ug/L	9.5	0.20	4819252
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	4819252
Vinyl Chloride	ug/L	<0.20	0.20	4819252
p+m-Xylene	ug/L	<0.20	0.20	4819252
o-Xylene	ug/L	<0.20	0.20	4819252
Total Xylenes	ug/L	<0.20	0.20	4819252
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	99		4819252
D4-1,2-Dichloroethane	%	99		4819252
D8-Toluene	%	99		4819252

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

TEST SUMMARY

Maxxam ID: DST617 **Collected:** 2017/01/09
Sample ID: DUP1 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	4819724	N/A	2017/01/11	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	4819252	N/A	2017/01/11	Manpreet Sarao

Maxxam ID: DST618 **Collected:** 2017/01/09
Sample ID: DUP2 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	4820327	N/A	2017/01/11	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	4820398	2017/01/10	2017/01/11	Barbara Wowk

Maxxam ID: DST619 **Collected:** 2017/01/09
Sample ID: DUP3 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	4819880	N/A	2017/01/11	Automated Statchk
PAH Compounds in Water by GC/MS (SIM)	GC/MS	4820642	2017/01/11	2017/01/11	Jett Wu

Maxxam ID: DST620 **Collected:** 2017/01/10
Sample ID: DUP4 **Shipped:**
Matrix: Water **Received:** 2017/01/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	4820634	N/A	2017/01/11	Deonarine Ramnarine
Chromium (VI) in Water	IC	4821142	N/A	2017/01/11	Lang Le
Free (WAD) Cyanide	SKAL/CN	4820691	N/A	2017/01/11	Louise Harding
Mercury	CV/AA	4820555	2017/01/11	2017/01/11	Magdalena Carlos
Dissolved Metals by ICPMS	ICP/MS	4820604	N/A	2017/01/11	Cristina Petran

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

GENERAL COMMENTS

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

Package 1	2.0°C
Package 2	2.3°C

Results relate only to the items tested.

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4819252	MS4	Matrix Spike	4-Bromofluorobenzene	2017/01/11		100	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		103	%	70 - 130
			D8-Toluene	2017/01/11		100	%	70 - 130
			Acetone (2-Propanone)	2017/01/11		94	%	60 - 140
			Benzene	2017/01/11		95	%	70 - 130
			Bromodichloromethane	2017/01/11		96	%	70 - 130
			Bromoform	2017/01/11		95	%	70 - 130
			Bromomethane	2017/01/11		84	%	60 - 140
			Carbon Tetrachloride	2017/01/11		97	%	70 - 130
			Chlorobenzene	2017/01/11		95	%	70 - 130
			Chloroform	2017/01/11		94	%	70 - 130
			Dibromochloromethane	2017/01/11		95	%	70 - 130
			1,2-Dichlorobenzene	2017/01/11		92	%	70 - 130
			1,3-Dichlorobenzene	2017/01/11		91	%	70 - 130
			1,4-Dichlorobenzene	2017/01/11		92	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2017/01/11		97	%	60 - 140
			1,1-Dichloroethane	2017/01/11		95	%	70 - 130
			1,2-Dichloroethane	2017/01/11		94	%	70 - 130
			1,1-Dichloroethylene	2017/01/11		98	%	70 - 130
			cis-1,2-Dichloroethylene	2017/01/11		100	%	70 - 130
			trans-1,2-Dichloroethylene	2017/01/11		95	%	70 - 130
			1,2-Dichloropropane	2017/01/11		94	%	70 - 130
			cis-1,3-Dichloropropene	2017/01/11		100	%	70 - 130
			trans-1,3-Dichloropropene	2017/01/11		101	%	70 - 130
			Ethylbenzene	2017/01/11		93	%	70 - 130
			Ethylene Dibromide	2017/01/11		96	%	70 - 130
			Hexane	2017/01/11		101	%	70 - 130
			Methylene Chloride(Dichloromethane)	2017/01/11		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11		97	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/11		100	%	70 - 130
			Methyl t-butyl ether (MTBE)	2017/01/11		97	%	70 - 130
			Styrene	2017/01/11		95	%	70 - 130
			1,1,1,2-Tetrachloroethane	2017/01/11		94	%	70 - 130
			1,1,2,2-Tetrachloroethane	2017/01/11		95	%	70 - 130
			Tetrachloroethylene	2017/01/11		NC	%	70 - 130
			Toluene	2017/01/11		92	%	70 - 130
			1,1,1-Trichloroethane	2017/01/11		94	%	70 - 130
			1,1,2-Trichloroethane	2017/01/11		95	%	70 - 130
			Trichloroethylene	2017/01/11		94	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2017/01/11		98	%	70 - 130
			Vinyl Chloride	2017/01/11		100	%	70 - 130
			p+m-Xylene	2017/01/11		92	%	70 - 130
			o-Xylene	2017/01/11		90	%	70 - 130
4819252	MS4	Spiked Blank	4-Bromofluorobenzene	2017/01/11		101	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		101	%	70 - 130
			D8-Toluene	2017/01/11		101	%	70 - 130
			Acetone (2-Propanone)	2017/01/11		97	%	60 - 140
			Benzene	2017/01/11		96	%	70 - 130
			Bromodichloromethane	2017/01/11		97	%	70 - 130
			Bromoform	2017/01/11		96	%	70 - 130
			Bromomethane	2017/01/11		85	%	60 - 140
			Carbon Tetrachloride	2017/01/11		99	%	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2017/01/11		98	%	70 - 130
			Chloroform	2017/01/11		95	%	70 - 130
			Dibromochloromethane	2017/01/11		97	%	70 - 130
			1,2-Dichlorobenzene	2017/01/11		94	%	70 - 130
			1,3-Dichlorobenzene	2017/01/11		93	%	70 - 130
			1,4-Dichlorobenzene	2017/01/11		94	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2017/01/11		102	%	60 - 140
			1,1-Dichloroethane	2017/01/11		97	%	70 - 130
			1,2-Dichloroethane	2017/01/11		94	%	70 - 130
			1,1-Dichloroethylene	2017/01/11		100	%	70 - 130
			cis-1,2-Dichloroethylene	2017/01/11		101	%	70 - 130
			trans-1,2-Dichloroethylene	2017/01/11		97	%	70 - 130
			1,2-Dichloropropane	2017/01/11		96	%	70 - 130
			cis-1,3-Dichloropropene	2017/01/11		99	%	70 - 130
			trans-1,3-Dichloropropene	2017/01/11		100	%	70 - 130
			Ethylbenzene	2017/01/11		96	%	70 - 130
			Ethylene Dibromide	2017/01/11		97	%	70 - 130
			Hexane	2017/01/11		104	%	70 - 130
			Methylene Chloride(Dichloromethane)	2017/01/11		101	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11		99	%	60 - 140
			Methyl Isobutyl Ketone	2017/01/11		100	%	70 - 130
			Methyl t-butyl ether (MTBE)	2017/01/11		98	%	70 - 130
			Styrene	2017/01/11		98	%	70 - 130
			1,1,1,2-Tetrachloroethane	2017/01/11		96	%	70 - 130
			1,1,2,2-Tetrachloroethane	2017/01/11		97	%	70 - 130
			Tetrachloroethylene	2017/01/11		97	%	70 - 130
			Toluene	2017/01/11		95	%	70 - 130
			1,1,1-Trichloroethane	2017/01/11		97	%	70 - 130
			1,1,2-Trichloroethane	2017/01/11		97	%	70 - 130
			Trichloroethylene	2017/01/11		96	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2017/01/11		100	%	70 - 130
			Vinyl Chloride	2017/01/11		103	%	70 - 130
			p+m-Xylene	2017/01/11		95	%	70 - 130
			o-Xylene	2017/01/11		94	%	70 - 130
4819252	MS4	Method Blank	4-Bromofluorobenzene	2017/01/11		99	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		103	%	70 - 130
			D8-Toluene	2017/01/11		97	%	70 - 130
			Acetone (2-Propanone)	2017/01/11	<10		ug/L	
			Benzene	2017/01/11	<0.20		ug/L	
			Bromodichloromethane	2017/01/11	<0.50		ug/L	
			Bromoform	2017/01/11	<1.0		ug/L	
			Bromomethane	2017/01/11	<0.50		ug/L	
			Carbon Tetrachloride	2017/01/11	<0.20		ug/L	
			Chlorobenzene	2017/01/11	<0.20		ug/L	
			Chloroform	2017/01/11	<0.20		ug/L	
			Dibromochloromethane	2017/01/11	<0.50		ug/L	
			1,2-Dichlorobenzene	2017/01/11	<0.50		ug/L	
			1,3-Dichlorobenzene	2017/01/11	<0.50		ug/L	
			1,4-Dichlorobenzene	2017/01/11	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2017/01/11	<1.0		ug/L	
			1,1-Dichloroethane	2017/01/11	<0.20		ug/L	
			1,2-Dichloroethane	2017/01/11	<0.50		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1-Dichloroethylene	2017/01/11	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2017/01/11	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2017/01/11	<0.50		ug/L	
			1,2-Dichloropropane	2017/01/11	<0.20		ug/L	
			cis-1,3-Dichloropropene	2017/01/11	<0.30		ug/L	
			trans-1,3-Dichloropropene	2017/01/11	<0.40		ug/L	
			Ethylbenzene	2017/01/11	<0.20		ug/L	
			Ethylene Dibromide	2017/01/11	<0.20		ug/L	
			Hexane	2017/01/11	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2017/01/11	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11	<10		ug/L	
			Methyl Isobutyl Ketone	2017/01/11	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2017/01/11	<0.50		ug/L	
			Styrene	2017/01/11	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2017/01/11	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2017/01/11	<0.50		ug/L	
			Tetrachloroethylene	2017/01/11	<0.20		ug/L	
			Toluene	2017/01/11	<0.20		ug/L	
			1,1,1-Trichloroethane	2017/01/11	<0.20		ug/L	
			1,1,2-Trichloroethane	2017/01/11	<0.50		ug/L	
			Trichloroethylene	2017/01/11	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2017/01/11	<0.50		ug/L	
			Vinyl Chloride	2017/01/11	<0.20		ug/L	
			p+m-Xylene	2017/01/11	<0.20		ug/L	
			o-Xylene	2017/01/11	<0.20		ug/L	
			Total Xylenes	2017/01/11	<0.20		ug/L	
4819252	MS4	RPD	Acetone (2-Propanone)	2017/01/11	NC		%	30
			Benzene	2017/01/11	NC		%	30
			Bromodichloromethane	2017/01/11	NC		%	30
			Bromoform	2017/01/11	NC		%	30
			Bromomethane	2017/01/11	NC		%	30
			Carbon Tetrachloride	2017/01/11	NC		%	30
			Chlorobenzene	2017/01/11	NC		%	30
			Chloroform	2017/01/11	NC		%	30
			Dibromochloromethane	2017/01/11	NC		%	30
			1,2-Dichlorobenzene	2017/01/11	NC		%	30
			1,3-Dichlorobenzene	2017/01/11	NC		%	30
			1,4-Dichlorobenzene	2017/01/11	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2017/01/11	NC		%	30
			1,1-Dichloroethane	2017/01/11	NC		%	30
			1,2-Dichloroethane	2017/01/11	NC		%	30
			1,1-Dichloroethylene	2017/01/11	NC		%	30
			cis-1,2-Dichloroethylene	2017/01/11	NC		%	30
			trans-1,2-Dichloroethylene	2017/01/11	NC		%	30
			1,2-Dichloropropane	2017/01/11	NC		%	30
			cis-1,3-Dichloropropene	2017/01/11	NC		%	30
			trans-1,3-Dichloropropene	2017/01/11	NC		%	30
			Ethylbenzene	2017/01/11	NC		%	30
			Ethylene Dibromide	2017/01/11	NC		%	30
			Hexane	2017/01/11	NC		%	30
			Methylene Chloride(Dichloromethane)	2017/01/11	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2017/01/11	NC		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Isobutyl Ketone	2017/01/11	NC		%	30
			Methyl t-butyl ether (MTBE)	2017/01/11	NC		%	30
			Styrene	2017/01/11	NC		%	30
			1,1,1,2-Tetrachloroethane	2017/01/11	NC		%	30
			1,1,2,2-Tetrachloroethane	2017/01/11	NC		%	30
			Tetrachloroethylene	2017/01/11	NC		%	30
			Toluene	2017/01/11	NC		%	30
			1,1,1-Trichloroethane	2017/01/11	NC		%	30
			1,1,2-Trichloroethane	2017/01/11	NC		%	30
			Trichloroethylene	2017/01/11	NC		%	30
			Trichlorofluoromethane (FREON 11)	2017/01/11	NC		%	30
			Vinyl Chloride	2017/01/11	NC		%	30
			p+m-Xylene	2017/01/11	NC		%	30
			o-Xylene	2017/01/11	NC		%	30
			Total Xylenes	2017/01/11	NC		%	30
4820327	RGA	Matrix Spike	1,4-Difluorobenzene	2017/01/11		100	%	70 - 130
			4-Bromofluorobenzene	2017/01/11		101	%	70 - 130
			D10-Ethylbenzene	2017/01/11		102	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		99	%	70 - 130
			Benzene	2017/01/11		109	%	70 - 130
			Toluene	2017/01/11		111	%	70 - 130
			Ethylbenzene	2017/01/11		120	%	70 - 130
			o-Xylene	2017/01/11		122	%	70 - 130
			p+m-Xylene	2017/01/11		109	%	70 - 130
			F1 (C6-C10)	2017/01/11		74	%	70 - 130
4820327	RGA	Spiked Blank	1,4-Difluorobenzene	2017/01/11		100	%	70 - 130
			4-Bromofluorobenzene	2017/01/11		100	%	70 - 130
			D10-Ethylbenzene	2017/01/11		103	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		101	%	70 - 130
			Benzene	2017/01/11		112	%	70 - 130
			Toluene	2017/01/11		111	%	70 - 130
			Ethylbenzene	2017/01/11		116	%	70 - 130
			o-Xylene	2017/01/11		118	%	70 - 130
			p+m-Xylene	2017/01/11		106	%	70 - 130
			F1 (C6-C10)	2017/01/11		107	%	70 - 130
4820327	RGA	Method Blank	1,4-Difluorobenzene	2017/01/11		101	%	70 - 130
			4-Bromofluorobenzene	2017/01/11		100	%	70 - 130
			D10-Ethylbenzene	2017/01/11		100	%	70 - 130
			D4-1,2-Dichloroethane	2017/01/11		101	%	70 - 130
			Benzene	2017/01/11	<0.20		ug/L	
			Toluene	2017/01/11	<0.20		ug/L	
			Ethylbenzene	2017/01/11	<0.20		ug/L	
			o-Xylene	2017/01/11	<0.20		ug/L	
			p+m-Xylene	2017/01/11	<0.40		ug/L	
			Total Xylenes	2017/01/11	<0.40		ug/L	
			F1 (C6-C10)	2017/01/11	<25		ug/L	
			F1 (C6-C10) - BTEX	2017/01/11	<25		ug/L	
4820327	RGA	RPD	Benzene	2017/01/11	NC		%	30
			Toluene	2017/01/11	NC		%	30
			Ethylbenzene	2017/01/11	NC		%	30
			o-Xylene	2017/01/11	NC		%	30
			p+m-Xylene	2017/01/11	NC		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Xylenes	2017/01/11	NC		%	30
			F1 (C6-C10)	2017/01/11	NC		%	30
			F1 (C6-C10) - BTEX	2017/01/11	NC		%	30
4820398	BWW	Matrix Spike	o-Terphenyl	2017/01/11		105	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/11		111	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2017/01/11		108	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2017/01/11		109	%	50 - 130
4820398	BWW	Spiked Blank	o-Terphenyl	2017/01/11		106	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/11		105	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2017/01/11		113	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2017/01/11		112	%	60 - 130
4820398	BWW	Method Blank	o-Terphenyl	2017/01/11		103	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2017/01/11	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2017/01/11	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2017/01/11	<200		ug/L	
4820398	BWW	RPD	F2 (C10-C16 Hydrocarbons)	2017/01/11	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2017/01/11	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2017/01/11	NC		%	30
4820555	MC	Matrix Spike	Mercury (Hg)	2017/01/11		102	%	75 - 125
4820555	MC	Spiked Blank	Mercury (Hg)	2017/01/11		107	%	80 - 120
4820555	MC	Method Blank	Mercury (Hg)	2017/01/11	<0.1		ug/L	
4820555	MC	RPD	Mercury (Hg)	2017/01/11	NC		%	20
4820604	CPE	Matrix Spike	Dissolved Antimony (Sb)	2017/01/11		104	%	80 - 120
			Dissolved Arsenic (As)	2017/01/11		98	%	80 - 120
			Dissolved Barium (Ba)	2017/01/11		100	%	80 - 120
			Dissolved Beryllium (Be)	2017/01/11		103	%	80 - 120
			Dissolved Boron (B)	2017/01/11		102	%	80 - 120
			Dissolved Cadmium (Cd)	2017/01/11		103	%	80 - 120
			Dissolved Chromium (Cr)	2017/01/11		99	%	80 - 120
			Dissolved Cobalt (Co)	2017/01/11		97	%	80 - 120
			Dissolved Copper (Cu)	2017/01/11		99	%	80 - 120
			Dissolved Lead (Pb)	2017/01/11		96	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/01/11		102	%	80 - 120
			Dissolved Nickel (Ni)	2017/01/11		97	%	80 - 120
			Dissolved Selenium (Se)	2017/01/11		99	%	80 - 120
			Dissolved Silver (Ag)	2017/01/11		98	%	80 - 120
			Dissolved Sodium (Na)	2017/01/11		NC	%	80 - 120
			Dissolved Thallium (Tl)	2017/01/11		96	%	80 - 120
			Dissolved Uranium (U)	2017/01/11		101	%	80 - 120
			Dissolved Vanadium (V)	2017/01/11		98	%	80 - 120
			Dissolved Zinc (Zn)	2017/01/11		98	%	80 - 120
4820604	CPE	Spiked Blank	Dissolved Antimony (Sb)	2017/01/11		99	%	80 - 120
			Dissolved Arsenic (As)	2017/01/11		96	%	80 - 120
			Dissolved Barium (Ba)	2017/01/11		96	%	80 - 120
			Dissolved Beryllium (Be)	2017/01/11		101	%	80 - 120
			Dissolved Boron (B)	2017/01/11		101	%	80 - 120
			Dissolved Cadmium (Cd)	2017/01/11		97	%	80 - 120
			Dissolved Chromium (Cr)	2017/01/11		96	%	80 - 120
			Dissolved Cobalt (Co)	2017/01/11		96	%	80 - 120
			Dissolved Copper (Cu)	2017/01/11		96	%	80 - 120
			Dissolved Lead (Pb)	2017/01/11		95	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/01/11		97	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Nickel (Ni)	2017/01/11		96	%	80 - 120
			Dissolved Selenium (Se)	2017/01/11		97	%	80 - 120
			Dissolved Silver (Ag)	2017/01/11		95	%	80 - 120
			Dissolved Sodium (Na)	2017/01/11		100	%	80 - 120
			Dissolved Thallium (Tl)	2017/01/11		94	%	80 - 120
			Dissolved Uranium (U)	2017/01/11		98	%	80 - 120
			Dissolved Vanadium (V)	2017/01/11		95	%	80 - 120
			Dissolved Zinc (Zn)	2017/01/11		96	%	80 - 120
4820604	CPE	Method Blank	Dissolved Antimony (Sb)	2017/01/11	<0.50		ug/L	
			Dissolved Arsenic (As)	2017/01/11	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/01/11	<2.0		ug/L	
			Dissolved Beryllium (Be)	2017/01/11	<0.50		ug/L	
			Dissolved Boron (B)	2017/01/11	<10		ug/L	
			Dissolved Cadmium (Cd)	2017/01/11	<0.10		ug/L	
			Dissolved Chromium (Cr)	2017/01/11	<5.0		ug/L	
			Dissolved Cobalt (Co)	2017/01/11	<0.50		ug/L	
			Dissolved Copper (Cu)	2017/01/11	<1.0		ug/L	
			Dissolved Lead (Pb)	2017/01/11	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2017/01/11	<0.50		ug/L	
			Dissolved Nickel (Ni)	2017/01/11	<1.0		ug/L	
			Dissolved Selenium (Se)	2017/01/11	<2.0		ug/L	
			Dissolved Silver (Ag)	2017/01/11	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/01/11	<100		ug/L	
			Dissolved Thallium (Tl)	2017/01/11	<0.050		ug/L	
			Dissolved Uranium (U)	2017/01/11	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/01/11	<0.50		ug/L	
			Dissolved Zinc (Zn)	2017/01/11	<5.0		ug/L	
4820604	CPE	RPD	Dissolved Antimony (Sb)	2017/01/11	NC		%	20
			Dissolved Arsenic (As)	2017/01/11	NC		%	20
			Dissolved Barium (Ba)	2017/01/11	9.5		%	20
			Dissolved Beryllium (Be)	2017/01/11	NC		%	20
			Dissolved Boron (B)	2017/01/11	NC		%	20
			Dissolved Cadmium (Cd)	2017/01/11	NC		%	20
			Dissolved Chromium (Cr)	2017/01/11	NC		%	20
			Dissolved Cobalt (Co)	2017/01/11	NC		%	20
			Dissolved Copper (Cu)	2017/01/11	NC		%	20
			Dissolved Lead (Pb)	2017/01/11	NC		%	20
			Dissolved Molybdenum (Mo)	2017/01/11	NC		%	20
			Dissolved Nickel (Ni)	2017/01/11	NC		%	20
			Dissolved Selenium (Se)	2017/01/11	NC		%	20
			Dissolved Silver (Ag)	2017/01/11	NC		%	20
			Dissolved Sodium (Na)	2017/01/11	1.9		%	20
			Dissolved Thallium (Tl)	2017/01/11	NC		%	20
			Dissolved Uranium (U)	2017/01/11	NC		%	20
			Dissolved Vanadium (V)	2017/01/11	NC		%	20
			Dissolved Zinc (Zn)	2017/01/11	NC		%	20
4820634	DRM	Matrix Spike	Dissolved Chloride (Cl)	2017/01/11		NC	%	80 - 120
4820634	DRM	Spiked Blank	Dissolved Chloride (Cl)	2017/01/11		104	%	80 - 120
4820634	DRM	Method Blank	Dissolved Chloride (Cl)	2017/01/11	<1.0		mg/L	
4820634	DRM	RPD	Dissolved Chloride (Cl)	2017/01/11	0.87		%	20
4820642	JET	Matrix Spike	D10-Anthracene	2017/01/11		96	%	50 - 130
			D14-Terphenyl (FS)	2017/01/11		100	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D8-Acenaphthylene	2017/01/11		94	%	50 - 130
			Acenaphthene	2017/01/11		92	%	50 - 130
			Acenaphthylene	2017/01/11		92	%	50 - 130
			Anthracene	2017/01/11		86	%	50 - 130
			Benzo(a)anthracene	2017/01/11		90	%	50 - 130
			Benzo(a)pyrene	2017/01/11		93	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/11		95	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/11		88	%	50 - 130
			Benzo(k)fluoranthene	2017/01/11		94	%	50 - 130
			Chrysene	2017/01/11		92	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/11		84	%	50 - 130
			Fluoranthene	2017/01/11		100	%	50 - 130
			Fluorene	2017/01/11		92	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/11		88	%	50 - 130
			1-Methylnaphthalene	2017/01/11		94	%	50 - 130
			2-Methylnaphthalene	2017/01/11		94	%	50 - 130
			Naphthalene	2017/01/11		87	%	50 - 130
			Phenanthrene	2017/01/11		92	%	50 - 130
			Pyrene	2017/01/11		103	%	50 - 130
4820642	JET	Spiked Blank	D10-Anthracene	2017/01/11		100	%	50 - 130
			D14-Terphenyl (FS)	2017/01/11		101	%	50 - 130
			D8-Acenaphthylene	2017/01/11		95	%	50 - 130
			Acenaphthene	2017/01/11		92	%	50 - 130
			Acenaphthylene	2017/01/11		91	%	50 - 130
			Anthracene	2017/01/11		88	%	50 - 130
			Benzo(a)anthracene	2017/01/11		95	%	50 - 130
			Benzo(a)pyrene	2017/01/11		98	%	50 - 130
			Benzo(b/j)fluoranthene	2017/01/11		101	%	50 - 130
			Benzo(g,h,i)perylene	2017/01/11		100	%	50 - 130
			Benzo(k)fluoranthene	2017/01/11		99	%	50 - 130
			Chrysene	2017/01/11		97	%	50 - 130
			Dibenz(a,h)anthracene	2017/01/11		94	%	50 - 130
			Fluoranthene	2017/01/11		99	%	50 - 130
			Fluorene	2017/01/11		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2017/01/11		99	%	50 - 130
			1-Methylnaphthalene	2017/01/11		84	%	50 - 130
			2-Methylnaphthalene	2017/01/11		83	%	50 - 130
			Naphthalene	2017/01/11		81	%	50 - 130
			Phenanthrene	2017/01/11		95	%	50 - 130
			Pyrene	2017/01/11		102	%	50 - 130
4820642	JET	Method Blank	D10-Anthracene	2017/01/11		101	%	50 - 130
			D14-Terphenyl (FS)	2017/01/11		103	%	50 - 130
			D8-Acenaphthylene	2017/01/11		96	%	50 - 130
			Acenaphthene	2017/01/11	<0.050		ug/L	
			Acenaphthylene	2017/01/11	<0.050		ug/L	
			Anthracene	2017/01/11	<0.050		ug/L	
			Benzo(a)anthracene	2017/01/11	<0.050		ug/L	
			Benzo(a)pyrene	2017/01/11	<0.010		ug/L	
			Benzo(b/j)fluoranthene	2017/01/11	<0.050		ug/L	
			Benzo(g,h,i)perylene	2017/01/11	<0.050		ug/L	
			Benzo(k)fluoranthene	2017/01/11	<0.050		ug/L	
			Chrysene	2017/01/11	<0.050		ug/L	

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Maxxam Job #: B705415
Report Date: 2017/01/11

S2S Environmental Inc
Client Project #: 6574
Site Location: NEW STREET
Your P.O. #: 6574-KAB

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dibenz(a,h)anthracene	2017/01/11	<0.050		ug/L	
			Fluoranthene	2017/01/11	<0.050		ug/L	
			Fluorene	2017/01/11	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2017/01/11	<0.050		ug/L	
			1-Methylnaphthalene	2017/01/11	<0.050		ug/L	
			2-Methylnaphthalene	2017/01/11	<0.050		ug/L	
			Naphthalene	2017/01/11	<0.050		ug/L	
			Phenanthrene	2017/01/11	<0.030		ug/L	
			Pyrene	2017/01/11	<0.050		ug/L	
4820642	JET	RPD	Acenaphthene	2017/01/11	NC		%	30
			Acenaphthylene	2017/01/11	NC		%	30
			Anthracene	2017/01/11	NC		%	30
			Benzo(a)anthracene	2017/01/11	NC		%	30
			Benzo(a)pyrene	2017/01/11	NC		%	30
			Benzo(b/j)fluoranthene	2017/01/11	NC		%	30
			Benzo(g,h,i)perylene	2017/01/11	NC		%	30
			Benzo(k)fluoranthene	2017/01/11	NC		%	30
			Chrysene	2017/01/11	NC		%	30
			Dibenz(a,h)anthracene	2017/01/11	NC		%	30
			Fluoranthene	2017/01/11	NC		%	30
			Fluorene	2017/01/11	NC		%	30
			Indeno(1,2,3-cd)pyrene	2017/01/11	NC		%	30
			1-Methylnaphthalene	2017/01/11	NC		%	30
			2-Methylnaphthalene	2017/01/11	NC		%	30
			Naphthalene	2017/01/11	NC		%	30
			Phenanthrene	2017/01/11	NC		%	30
			Pyrene	2017/01/11	NC		%	30
4820691	LHA	Matrix Spike	Free Cyanide	2017/01/11		97	%	80 - 120
4820691	LHA	Spiked Blank	Free Cyanide	2017/01/11		102	%	80 - 120
4820691	LHA	Method Blank	Free Cyanide	2017/01/11	<1		ug/L	
4820691	LHA	RPD	Free Cyanide	2017/01/11	NC		%	20
4821142	LLE	Matrix Spike	Chromium (VI)	2017/01/11		106	%	80 - 120
4821142	LLE	Spiked Blank	Chromium (VI)	2017/01/11		108	%	80 - 120
4821142	LLE	Method Blank	Chromium (VI)	2017/01/11	<0.50		ug/L	
4821142	LLE	RPD	Chromium (VI)	2017/01/11	NC		%	20

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.

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 spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of 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 (one or both samples < 5x RDL).

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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).



Brad Newman, Scientific Specialist

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

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