

May 10, 2023

File: 102478.001 – Rev0

Innovative Planning Solutions
647 Welham Road, Unit 9A
Barrie, Ontario
L4N 0B7

Attention: James Hunter, BURPI

**Re: Geoenvironmental Investigation
 Proposed Redevelopment of 242 Edgehill Drive
 Barrie, Ontario**

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) is pleased to provide this summary of the environmental investigation, including associated laboratory testing, for the proposed redevelopment of 242 Edgehill Drive in Barrie, Ontario.

BACKGROUND

A geoenvironmental investigation including soil sampling and analysis was requested to support the redevelopment of the property located at 242 Edgehill Drive in Barrie.

The proposed townhouses will comprise typical slab-on-grade construction with shallow footings including attached garages. The residential water and sewer services will be connected to the existing City of Barrie infrastructure.

It is understood that the City of Barrie has requested a geoenvironmental investigation to support the redevelopment due to the site's proximity to a property flagged with suspected contaminants as noted in The City of Barrie Memorandum dated October 25, 2022, Subject *D28-064-2022 Pre-Consultation – ZBA, 242 Edgehill Dr., Barrie, Ontario*. The specific property of concern was not identified in the memorandum.

FIELD WORK

A representative from GEMTEC attended the site on behalf of Innovative Planning Solutions (IPS) and 2820485 Ontario Inc. (Client) to excavate two test pits to review the subsurface soils and collect environmental samples on April 18, 2023.

Test pits were excavated down to a depth of 1.8 m and subsurface soils were characterized based on visual observations. Soil in both test pits were observed to be sand with trace gravel and trace organics at the surface.

Groundwater was not observed in the open test pits during our site investigation. At this time, it is not anticipated that temporary construction dewatering may be required, however, in-excavation water controls (i.e., localized sump pumping techniques) may be necessary to manage incidental precipitation and potential perched water conditions. Following detailed design and construction plans for servicing have been finalized, the dewatering requirements for the site should be re-assessed and, if necessary, a formal discharge and monitoring plan developed.

It is noted that groundwater levels may be higher during wet periods of the year, such as the early spring or following periods of precipitation. It is recommended that the seasonally high groundwater levels are confirmed following the spring freshet. This will also aid with determining potential impact to the groundwater levels at the site. It is understood that this will be completed during the detailed design stage.

Soil sampling was completed in accordance with the requirements as outlined in *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario* (MOE, 1996).

The collected soil samples were screened using an RKI Eagle 1 calibrated to 100 parts per million (ppm) hexane to measure combustible vapours in the headspace in the sealed plastic bag. The screening provides an indication of contamination, however, not chemical specific concentrations.

During testing pitting, no visual or olfactory evidence of environmental impacts were noted. The results of the field screening ranged from 0 ppm to 10 ppm and **are not considered indicative of environmental contamination**.

A total of five samples (two from each test pit plus one duplicate sample) were submitted to a Canadian Association for Laboratory Accreditation (CALA) certified analytical laboratory for chemical analysis of metals and inorganics (M&I), and Petroleum Hydrocarbons (PHCs) fractions F1 to F4.

The following samples were submitted for analysis:

	Sample ID	Sample Depth
TP23-1	SA1	0.0 to 0.9 m
	SA2	0.9 to 1.8 m
TP23-2	SA1	0.0 to 0.9 m
	SA2	0.9 to 1.8 m
DUP 1	(Duplicate of TP23-1 SA1)	--

Soil samples collected by GEMTEC were submitted to Caduceon Laboratories, under standard chain-of-custody protocols. The laboratory certificates of analysis are attached.

Soil sampling locations can be found in the enclosed Figure 1: Test Pit Location Plan.

ANALYTICAL RESULTS

The samples were tested for M&I, and PHC parameters and were compared to the Table 2 Site Condition Standards (SCS) for Residential / Parkland / Institutional (RPI) land use, as set out in “*Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act*”, as noted in the correspondence from the City of Barrie. The submitted samples conformed to the Table 2 SCS for RPI land use.

A copy of the laboratory certificates of analysis are attached.

DISCUSSION

Based on the current land use and site characteristics, the Table 2 SCS for RPI land use are considered the applicable standards to assessing soil quality for on-site reuse. Given that no Table 2 RPI exceedances were detected, excavated soil associated with the proposed construction work is considered environmentally suitable for on-site reuse. Should soil conditions be encountered during construction that are different from those outlined in this report, further assessment would be required prior to reuse.

Should off-site management of excess soil be considered, further review of the results would be required with respect to the requirements of the receiving site and Ontario Regulation 406/19 - Onsite and Excess Soil Management.

LIMITATIONS

This report was prepared for the exclusive use of Innovative Planning Solutions (IPS) and 2820485 Ontario Inc. (Client) by GEMTEC Consulting Engineers and Scientists Limited. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC and the Client. Nothing in this report is intended to provide a legal opinion.

The investigation undertaken by GEMTEC with respect to this report and any conclusions or recommendations made in this report reflect the best judgements of GEMTEC based on the site conditions observed during the investigations undertaken at the date(s) identified in the report and on the information available at the time the report was prepared. This report has been prepared for the application noted and it is based, in part, on visual observations made at the site, subsurface investigations at discrete locations and depths and laboratory analyses of specific chemical parameters and material during a specific time interval, all as described in the report. Unless otherwise stated, the findings contained in this report cannot be extrapolated or extended to previous or future site conditions, portions of the site that were unavailable for direct investigation, subsurface locations on the site that were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Chemical parameters other than

those addressed by the investigation described in this report may exist in soil and groundwater elsewhere on the site, the chemical parameters addressed in the report may exist in soil and groundwater at other locations at the site that were not investigated, and concentrations of the chemical parameters addressed which are different than those reported may exist at other locations on the site than those from where the samples were taken.

Should new information become available during future work, including excavations, borings or other studies, GEMTEC should be requested to review the information and, if necessary, re-assess the conclusions presented herein.

CLOSURE

We trust that this report is sufficient for your current needs. If you have any questions or require additional information, please contact the undersigned.

Regards,

GEMTEC Consulting Engineers and Scientists Limited



Doug Chisholm, P.Eng.
Manager – Inspection and Testing Services



Sherry Eaton, M.Sc., P.Geo., PMP, QP_{ESA}
Senior Environmental Consultant



DC/SE/dc/cm/af

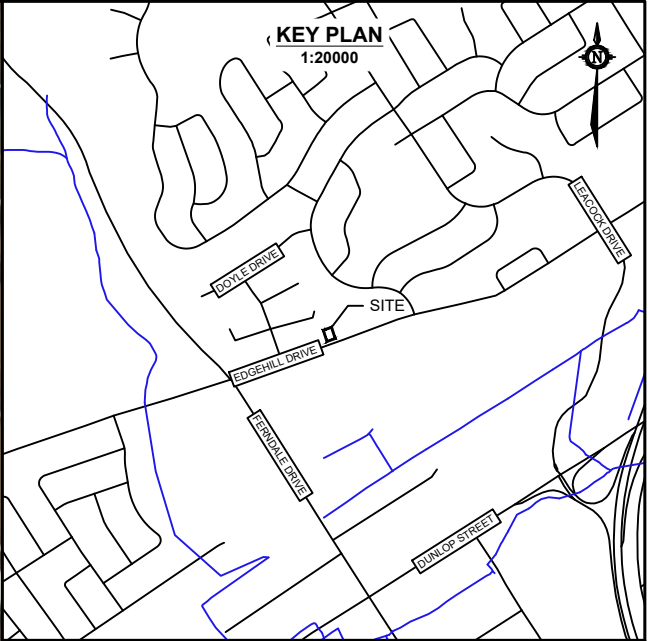
Attachments: Test Pit Location Plan
Analytical Laboratory Results, Caduceon Environmental Laboratories -
Certificate of Analysis B23-03015

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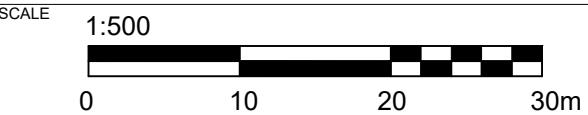


ATTACHMENTS

Test Pit Location Plan
Analytical Laboratory Results
Caduceon Environmental Laboratories -
Certificate of Analysis B23-03015



- LEGEND**
- TP # ——— TEST PIT ID
- APPROXIMATE TEST PIT LOCATION**
(CURRENT INVESTIGATION BY GEMTEC)
- APPROXIMATE SITE BOUNDARY**



DRAWING TEST PIT LOCATION PLAN

CLIENT INNOVATIVE PLANNING SOLUTIONS

PROJECT GEOENVIRONMENTAL INVESTIGATION
242 EDGEHILL DRIVE,
BARRIE, ONTARIO

DRAWN BY ZR	CHECKED BY DC
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PROJECT NO. 102478.001	REVISION NO. 0
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DATE MAY, 2023	FIGURE NO. FIGURE 1
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C.O.C.: G00016

REPORT No. B23-03015 (i)

Report To:

GEMTEC Consulting

44 Cedar Pointe Drive, Unit 1102

Barrie ON L4N 5R7

Attention: Curtis Moorhouse

Caduceon Environmental Laboratories

112 Commerce Park Drive

Barrie ON L4N 8W8

Tel: 705-252-5743

Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
Cyanide	5	Kingston	kwe	24-Apr-23	A-CN s K	in house
Conductivity	5	Holly Lane	ST	26-Apr-23	A-COND-01 (o)	SM 2510B
pH	5	Richmond Hill	JE	25-Apr-23	A-pH-02 (rh)	MOEE3530
Chromium (VI)	5	Holly Lane	ST	24-Apr-23	D-CRVI-02 (o)	EPA7196A
Mercury	5	Holly Lane	APR	26-Apr-23	D-HG-01 (o)	EPA 7471A
Boron - HWS	5	Holly Lane	aoz	26-Apr-23	D-HWE s	MOE3470
Sodium Adsorption Ratio	5	Holly Lane	NHG	27-Apr-23	D-ICP-01 SAR (o)	SM 3120
Metals - ICP-OES	5	Holly Lane	aoz	27-Apr-23	D-ICP-02 (o)	EPA 6010
Metals - ICP-MS	5	Holly Lane	TPR	26-Apr-23	D-ICPMS-01 (o)	EPA 6020

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg

F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)

F2 C10-C16 hydrocarbons in µg/g, (F2-naph if requested)

F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)

F4 C34-C50 hydrocarbons in µg/g

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

Any deviations from the method are noted and reported for any particular sample.

nC6 and nC10 response factor is within 30% of response factor for toluene:

nC10, nC16 and nC34 response factors within 10% of each other:

C50 response factors within 70% of nC10+nC16+nC34 average:

Linearity is within 15%:

All results expressed on a dry weight basis.

Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met. If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC. QC will be made available upon request.

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie



Christine Burke
Lab Manager

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G00016

REPORT No. B23-03015 (i)

Report To:

GEMTEC Consulting

44 Cedar Pointe Drive, Unit 1102

Barrie ON L4N 5R7

Attention: Curtis Moorhouse

Caduceon Environmental Laboratories

112 Commerce Park Drive

Barrie ON L4N 8W8

Tel: 705-252-5743

Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Parameter	Client I.D. Sample I.D. Date Collected		TP23-1 SA1 B23-03015-1 18-Apr-23	TP23-1 SA2 B23-03015-2 18-Apr-23	TP23-2 SA1 B23-03015-3 18-Apr-23	TP23-2 SA2 B23-03015-4 18-Apr-23	O. Reg. 153 Tbl. 2 - ICC Tbl. 2 - RPI Soil Soil	
	Units	R.L.						
pH @25°C	pH Units		7.55	7.71	7.59	7.76		
Conductivity @25°C	mS/cm	0.001	0.105	0.101	0.09	0.097	1.4	0.7
Cyanide (Free)	µg/g	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.051	0.051
Sodium Adsorption Ratio	units		0.144	0.137	0.156	0.142	12	5
Antimony	µg/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	40	7.5
Arsenic	µg/g	0.5	1.0	0.8	1.0	0.8	18	18
Barium	µg/g	1	58	56	58	54	670	390
Beryllium	µg/g	0.2	0.2	0.2	0.2	0.2	8	4
Boron	µg/g	0.5	17.7	21.2	21.1	17.8	120	120
Boron (HWS)	µg/g	0.02	< 0.02	< 0.02	< 0.02	< 0.02	2	1.5
Cadmium	µg/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	1.2
Chromium	µg/g	1	15	11	12	11	160	160
Chromium (VI)	µg/g	0.2	< 0.2	< 0.2	< 0.2	< 0.2	8	8
Cobalt	µg/g	1	4	5	5	5	80	22
Copper	µg/g	1	9	8	10	8	230	140
Lead	µg/g	5	< 5	< 5	< 5	< 5	120	120
Mercury	µg/g	0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.9	0.27
Molybdenum	µg/g	1	< 1	< 1	< 1	< 1	40	6.9
Nickel	µg/g	1	7	7	7	7	270	100
Selenium	µg/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.5	2.4
Silver	µg/g	0.2	< 0.2	< 0.2	< 0.2	< 0.2	40	20
Thallium	µg/g	0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.3	1
Uranium	µg/g	0.1	0.3	0.3	0.4	0.3	33	23
Vanadium	µg/g	1	24	24	26	23	86	86

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std



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Attention: Curtis Moorhouse

Caduceon Environmental Laboratories

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Tel: 705-252-5743

Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

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DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Parameter	Client I.D. Sample I.D. Date Collected		TP23-1 SA1 B23-03015-1 18-Apr-23	TP23-1 SA2 B23-03015-2 18-Apr-23	TP23-2 SA1 B23-03015-3 18-Apr-23	TP23-2 SA2 B23-03015-4 18-Apr-23	O. Reg. 153 Tbl. 2 - ICC Soil	
	Units	R.L.					Tbl. 2 - RPI Soil	
Zinc	µg/g	3	19	17	19	17	340	340

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std



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Lab Manager

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Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

		Client I.D. Sample I.D. Date Collected	Dup 1 B23-03015-5 18-Apr-23				O. Reg. 153 Tbl. 2 - ICC Soil	Tbl. 2 - RPI Soil
Parameter	Units	R.L.						
pH @25°C	pH Units		7.67					
Conductivity @25°C	mS/cm	0.001	0.098				1.4	0.7
Cyanide (Free)	µg/g	0.05	< 0.05				0.051	0.051
Sodium Adsorption Ratio	units		0.139				12	5
Antimony	µg/g	0.5	< 0.5				40	7.5
Arsenic	µg/g	0.5	0.9				18	18
Barium	µg/g	1	63				670	390
Beryllium	µg/g	0.2	0.3				8	4
Boron	µg/g	0.5	21.5				120	120
Boron (HWS)	µg/g	0.02	< 0.02				2	1.5
Cadmium	µg/g	0.5	< 0.5				1.9	1.2
Chromium	µg/g	1	15				160	160
Chromium (VI)	µg/g	0.2	< 0.2				8	8
Cobalt	µg/g	1	5				80	22
Copper	µg/g	1	9				230	140
Lead	µg/g	5	< 5				120	120
Mercury	µg/g	0.005	< 0.005				3.9	0.27
Molybdenum	µg/g	1	< 1				40	6.9
Nickel	µg/g	1	9				270	100
Selenium	µg/g	0.5	< 0.5				5.5	2.4
Silver	µg/g	0.2	< 0.2				40	20
Thallium	µg/g	0.1	< 0.1				3.3	1
Uranium	µg/g	0.1	0.4				33	23
Vanadium	µg/g	1	25				86	86

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std



Christine Burke
Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G00016

REPORT No. B23-03015 (i)

Report To:

GEMTEC Consulting

44 Cedar Pointe Drive, Unit 1102

Barrie ON L4N 5R7

Attention: Curtis Moorhouse

Caduceon Environmental Laboratories

112 Commerce Park Drive

Barrie ON L4N 8W8

Tel: 705-252-5743

Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

			Client I.D. Sample I.D. Date Collected	Dup 1 B23-03015-5 18-Apr-23				O. Reg. 153 Tbl. 2 - ICC Soil	Tbl. 2 - RPI Soil
Parameter	Units	R.L.							
Zinc	µg/g	3		20				340	340

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std



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Lab Manager

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Attention: Curtis Moorhouse

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Tel: 705-252-5743

Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

DATE REPORTED: 28-Apr-23

SAMPLE MATRIX: Soil

JOB/PROJECT NO.:

P.O. NUMBER: 102478.001

WATERWORKS NO.

Summary of Exceedances

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



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Lab Manager

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REPORT No. B23-03015 (ii)

Report To:

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44 Cedar Pointe Drive, Unit 1102

Barrie ON L4N 5R7

Attention: Curtis Moorhouse

Caduceon Environmental Laboratories

112 Commerce Park Drive

Barrie ON L4N 8W8

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DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
% Moisture	5	Richmond Hill	FAL	20-Apr-23	A-% moisture RH	
PHC(F2-F4)	5	Kingston	KPR	26-Apr-23	C-PHC-S-001 (k)	CWS Tier 1
PHC(F1)	5	Richmond Hill	FAL	20-Apr-23	C-VPHS-01 (rh)	CWS Tier 1

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg

F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)

F2 C10-C16 hydrocarbons in µg/g, (F2-naph if requested)

F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)

F4 C34-C50 hydrocarbons in µg/g

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

Any deviations from the method are noted and reported for any particular sample.

nC6 and nC10 response factor is within 30% of response factor for toluene:

nC10,nC16 and nC34 response factors within 10% of each other:

C50 response factors within 70% of nC10+nC16+nC34 average:

Linearity is within 15%:

All results expressed on a dry weight basis.

Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met. If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC QC will be made available upon request.

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Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
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Christine Burke
Lab Manager

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REPORT No. B23-03015 (ii)

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Barrie ON L4N 5R7

Attention: Curtis Moorhouse

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DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Parameter	Client I.D. Sample I.D. Date Collected		TP23-1 SA1 B23-03015-1 18-Apr-23	TP23-1 SA2 B23-03015-2 18-Apr-23	TP23-2 SA1 B23-03015-3 18-Apr-23	TP23-2 SA2 B23-03015-4 18-Apr-23	O. Reg. 153 Tbl. 2 - ICC Soil Tbl. 2 - RPI Soil	
	Units	R.L.						
PHC F1 (C6-C10)	µg/g	10	< 10	< 10	< 10	< 10	55	55
PHC F2 (>C10-C16)	µg/g	5	< 5	< 5	< 5	< 5	230	98
PHC F3 (>C16-C34)	µg/g	10	< 10	< 10	< 10	< 10	1700	300
PHC F4 (>C34-C50)	µg/g	10	< 10	< 10	< 10	< 10	3300	2800
% moisture	%		10.7	8.8	10.7	9.1		

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G00016

REPORT No. B23-03015 (ii)

Report To:

GEMTEC Consulting

44 Cedar Pointe Drive, Unit 1102

Barrie ON L4N 5R7

Attention: Curtis Moorhouse

Caduceon Environmental Laboratories

112 Commerce Park Drive

Barrie ON L4N 8W8

Tel: 705-252-5743

Fax: 705-252-5746

DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Parameter	Client I.D. Sample I.D. Date Collected		Dup 1 B23-03015-5 18-Apr-23				O. Reg. 153 Tbl. 2 - ICC Soil Tbl. 2 - RPI Soil	
	Units	R.L.						
PHC F1 (C6-C10)	µg/g	10	< 10				55	55
PHC F2 (>C10-C16)	µg/g	5	< 5				230	98
PHC F3 (>C16-C34)	µg/g	10	< 10				1700	300
PHC F4 (>C34-C50)	µg/g	10	< 10				3300	2800
% moisture	%		9.2					

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std



Christine Burke
Lab Manager

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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DATE RECEIVED: 19-Apr-23

JOB/PROJECT NO.:

DATE REPORTED: 28-Apr-23

P.O. NUMBER: 102478.001

SAMPLE MATRIX: Soil

WATERWORKS NO.

Summary of Exceedances

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 2 - ICC Soil - Table 2 - Ind./Commercial/Community Soil Std
Tbl. 2 - RPI Soil - Table 2 - Res./Parkland/Institutional Soil Std

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Christine Burke
Lab Manager

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Caduceon Environmental Laboratories.

GENERAL SAMPLE SUBMISSION FORM



SAMPLES SUBMITTED TO:

Kingston ☐
 Ottawa ☐
 Richmond Hill ☐
 Barrie ☒
 Windsor ☐

TESTING REQUIREMENTS

☒ O'Reg 153/04 Table (1 - 9) 2 Record of Site
☐ O'Reg 406/19 Table (1 - 9.1) 2 SPLP Table (1-9.1)
☐ RPI ☐ ICC ☐ Agricultural
☐ Coarse ☐ Medium/Fine ☐ O'Reg 558 TCLP
☐ MISA ☐ PWQO ☐ Landfill Monitoring
 Other: _____

REPORT NUMBER (Lab Use)

B23-03015

Are any samples to be submitted intended for Human Consumption under any Drinking Water Regulations?

☐ Yes ☒ No (If yes, submit all Drinking Water Samples on a Drinking Water Chain of Custody)

Organization:

GEMTEC Consulting Engineers and Scientists Limited

Contact:

Curtis Moorhouse

Tel:

705-795-5079

Fax:

Email:

curtis.moorhouse@gemtec.ca

Additional Info (email, cell, etc):

Address:

44 Cedar Pointe Drive, Unit 1102,
Barrie, ON L4N 5R7

Invoicing Address (if different):

Quote #:

Project Name or #:

102478.001

P.O. #:

Additional Info:

sherry.eaton@gemtec.ca

ANALYSES REQUESTED

Metals & Inorganics
(O'Reg. 153 Suite 2)

PHCs (F1-F4)

Suspected Highly Contaminated

TURNAROUND SERVICE
REQUESTED (see back page)

*Must be arranged in advance

☐ Platinum* 200% Surcharge
☐ Gold* 100% Surcharge
☐ Silver 50% Surcharge
☐ Bronze 25% Surcharge
☒ Standard 5-7 days
 Specific Date: _____

* Sample Matrix Legend: WW=Waste Water, SW=Surface Water, GW=Groundwater, LS=Liquid Sludge, SS=Solid Sludge, S=Soil, Sed=Sediment, PC=Paint Chips, F=Filter, Oil = Oil

Lab No.	Sample Source and/or Sample Identification	S.P.L. (Watertrax)	Sample Matrix *	Date Collected (yy-mm-dd)	Time Collected	Indicate Test For Each Sample By Using A Check Mark In The Box Provided												Field pH	Field Temp.	# Bottle/ Sample	Field Filtered Y/N
						X															
1	TP23-1 SA1		S	23-04-18	8:45 AM	X	X													4	N
2	TP23-1 SA2		S	23-04-18	9:15AM	X	X													4	N
3	TP23-2 SA1		S	23-04-18	9:40AM	X	X													4	N
4	TP23-2 SA2		S	23-04-18	10:00AM	X	X													4	N
5	Dup 1		S	23-04-18		X	X													4	N
																					+
																					+
																					+
	1x 250mL jar → K																				+
	1x 250mL jar → O																				+
	vials + p-cup → RH																				+
																					+

SAMPLE SUBMISSION INFORMATION

SHIPPING INFORMATION

REPORTING / INVOICING

SAMPLE RECEIVING INFORMATION (LABORATORY USE ONLY)

Sampled by:

Submitted by:

Courier (Client account) ☐

Invoice

Report by Fax ☐

Received By (print):

Madison

Signature:

MB3

Print:

A. Woodman

A. Woodman

Courier (Caduceon account) ☐Report by Email ☒

Date Received (yy-mm-dd):

23-04-19

Time Received:

18:29

Sign:

Drop Off ☒

of Pieces

Invoice by Email ☒Laboratory Prepared Bottles: ☒ Yes ☐ No

23-04-18

23-04-19

Caduceon (Pick-up) ☐Invoice by Mail ☐

Sample Temperature °C:

7.7

Labeled by:

AM

Comments:

Page

1

of

1

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