July 30, 2026
File: PE7543-LET.01

Scout Clean Energy
1805 29th Street, Suite 2050
Boulder Colorado
80301

Attention: **Mr. Alex Lawson**

Subject: **Background Soil and Groundwater Assessment**
Moodie Drive BESS
4186 William McEwen
Ottawa, Ontario

PATERSON GROUP
Consulting Engineers
9 Auriga Drive
Ottawa, Ontario
K2E 7T9
Tel: (613) 226-7381

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Materials Testing
Building Science
Rural Development Design
Retaining Wall Design
Noise and Vibration Studies

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Dear Sir,

Further to your request and authorization, Paterson conducted a background soil and groundwater assessment at Moodie Drive BESS (Project Area).

1.0 Background

It is Paterson's understanding that the Project Area consists of property addressed 4186 William McEwen Drive. The Project Area currently consists of a former residential dwelling, agricultural land, and vacant land. The project area is currently under development as a battery energy storage facility.

2.0 Observations

Paterson collected soil and groundwater samples on May 12th and May 14th, 2026 in order to assess the background soil and groundwater quality prior to the start of the operation of the BESS. Ten hand-dug test pits were excavated throughout the Project Area. Two water samples were collected from the Project Area. One sample was collected from an existing drinking water well associated with the former residential property and one sample was collected from a groundwater monitoring well installed as part of the geotechnical investigation.

All soil samples collected were subjected to a preliminary screening procedure, which included visual screening for colour and evidence of deleterious substances, as well as soil vapour screening with a Photo Ionization Detector (PID). No apparent deleterious materials or any visual or olfactory signs of potential contamination were observed in the samples collected during the field program.

3.0 Analytical Test Results

Ten representative soil samples were submitted to Paracel Laboratories (Paracel) in Ottawa for bulk analysis of metals, mercury, chromium (VI), lithium, fluoride, and total phosphorus.

Two representative groundwater sample were submitted to Paracel in Ottawa for bulk analysis of metals, mercury, chromium (VI), and lithium. The two groundwater samples were also submitted to Eurofins Environmental Testing (Eurofins) for bulk analysis of alkalinity, ammonia, chloride, colour, conductivity, DOC, E.Coli, fluoride, hardness, ion balance, metals, nitrate, pH, phenols, sulphates, tannin and lignin, TDS, total coliforms, total nitrogen, and turbidity.

Ministry of the Environment, Conservation and Parks (MECP) Table 2 Institutional/Industrial/Commercial (ICC) was identified as the site standard.

The test results obtained during the current investigation are appended to this letter along with the laboratory certificates of analysis.

3.1 Soil

All metals, Hg, and CrVI soil samples were found to be in compliance with MECP Table 2 ICC standards.

No soil standards exist for lithium, fluoride and total phosphorous for comparison purposes. The identified lithium concentrations ranged between 4ug/g and 7ug/g, showing a consistent lithium concentration in the overburden soil. The fluoride concentration identified on site ranged between non-detect (<1 ug/g) to 2 ug/g. The total phosphorous concentrations on site ranged from 454ug/g to 1130ug/g showing relatively consistent results throughout the site.

3.2 Groundwater

All metals, Hg, and CrVI groundwater samples were found to be in compliance with MECP Table 2 ICC standards.

No groundwater samples exist for Lithium for comparison purposes. The identified lithium concentrations ranged between 5.3ug/L in the drinking water well and 6.8ug/L in the overburden monitoring well. The lithium water results are consistent within both the drinking water well and the overburden monitoring well.

Water from the drinking water well was also compared to the MECP O.Reg. 169/03 Standards for non-regulated drinking water. As part of that analysis several aesthetic parameters (Colour, Hardness, Iron, Manganese, and Turbidity) exceeded the applicable standards. No E.Coli or Total Coliforms were identified in the water sample.

4.0 Conclusion

Conclusion

Ten representative soil samples were submitted to Paracel in Ottawa for bulk analysis of metals, mercury, chromium (VI), fluoride, and total phosphorus. Two representative groundwater sample were submitted to Paracel and Eurofins for bulk analysis of metals, mercury, chromium (VI), lithium, alkalinity, ammonia, chloride, colour, conductivity, DOC, escherichia coli, fluoride,

hardness, ion balance, metals, nitrate, pH, phenols, sulphates, tannin and lignin, TDS, total coliforms, total nitrogen, and turbidity.

Ministry of the Environment, Conservation and Parks (MECP) Table 2 Institutional/Industrial/Commercial (ICC) was identified as the site standard.

All soil and groundwater samples collected in the project area were found to comply with MECP Table 2 ICC standards and where no standards exist, were identified to be consistent throughout the site indicating that the concentrations identified are likely consistent with the regional background concentrations of the parameter. The drinking water well sample identified several aesthetic parameters which exceed the non-regulated drinking water standard, however E.Coli, and Total Coliforms were not detected in the water sample.

5.0 Statement of Limitations

A soils investigation of this nature is a limited sampling program. Should any conditions at the site be encountered which differ from those at the test locations, we request that we be notified immediately in order to permit reassessment of our recommendations/conclusions.

The present report applies only to the project described in this document. Use of this report for purposes other than those described herein or by person(s) other than Scout Clean Energy, or their agents, without review by this firm for applicability of our recommendations to the altered use of the report, is prohibited.

Regards,

Paterson Group Inc.



Derek Lattin, B.E.S.S.



Michael Beaudoin, P.Eng., QP_{ESA}

Attachments

- ❑ PE7543-1 Test Hole Location Plan
- ❑ MECP Table 2 ICC Results Tables
- ❑ Laboratory Certificates of Analysis

4160 WILLIAM MCEWEN DRIVE

4331 MOODIE DRIVE

CONTROLE BUILDING

SUBSTATION AREA

PROPOSED TRANSMISSION LINE

WELL 95.47

6.5M NOISE WALL

WETPOND

VEGETATION SWALE

DISCHARGE POINT

PROPOSED DITCH

TR24-1 95.67 (95.16)

TR24-2 95.93

TR24-3 95.86

TR24-4 95.48

TR24-5 95.14

TR24-6 95.23

TR24-7 95.74

TR24-8 96.04

HTP 1-26 96.33

HTP 2-26 95.75

HTP 3-26 95.72

HTP 4-26 95.64

HTP 5-26 95.79

HTP 6-26 96.09

HTP 7-26 95.38

HTP 8-26 95.37

HTP 9-26 95.45

HTP 10-26 95.35

FIRST RESPONDER STATION

REMOTE HYDRANT

DRAFT HYDRANT

FIRE DEPARTMENT STAGING AREA

NATURAL RUNOFF CORRIDOR

PROPOSED UNDERGROUND WATER TANK WITH 85000 LITRES CAPACITY

SNOW STORAGE

DIVERSION DITCH

4186 WILLIAM MCEWEN DRIVE

EXISTING POLE POWER FOR EXISTING HOUSE

UNOCUPIED EXISTING RESIDENTIAL BUILDING

WILLIAM MCEWEN DRIVE

4236 WILLIAM MCEWEN DRIVE
RESIDENTIAL

PIN 04592-0102 (LT)

LEGEND:

- PHASE-II PROPERTY BOUNDARY
- HAND TEST PIT LOCATION
- BOREHOLE WITH MONITORING WELL LOCATION BY OTHERS
- BOREHOLE LOCATION BY OTHERS
- 95.67 GROUND SURFACE ELEVATION (m)
- (95.16) GROUNDWATER SURFACE ELEVATION (m)

GROUND SURFACE ELEVATIONS AT BOREHOLE LOCATIONS ARE REFERENCED TO A GEODETIC DATUM.

SCALE: 1:3000

0 25 50 75 100 125 150 200m

PATERSON GROUP
9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

SCOUT CLEAN ENERGY

BACKGROUND SOIL AND GROUNDWATER ASSESSMENT
4186 WILLIAM MCEWEN DRIVE

OTTAWA, ONTARIO

Title:

TEST HOLE LOCATION PLAN

Scale: 1:3000	Date: 07/2026
Drawn by: GK	Report No.: PE7543-1
Checked by: DL	Dwg. No.: PE7543-1
Approved by: MB	Revision No.:

11x17

p:\autocad drawings\environmental\pe75xx\pe7543\pe7543-1 test hole location plan.dwg

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Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)
9 Auriga Drive
Ottawa, ON K2E 7T9
Attn: Mike Beaudoin

Client PO: 65927
Project: PE7543
Custody:

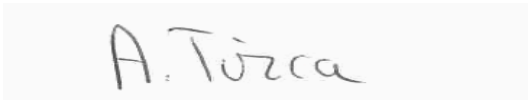
Report Date: 22-May-2026
Order Date: 15-May-2026

Order #: 2620597

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2620597-01	HTP1-26-G2
2620597-02	HTP2-26-G2
2620597-03	HTP3-26-G2
2620597-04	HTP4-26-G2
2620597-05	HTP7-26-G2
2620597-06	HTP8-26-G2
2620597-07	HTP5-26-G1
2620597-08	HTP6-26-G1
2620597-09	HTP9-26-G1
2620597-10	HTP10-26-G1

Approved By:



Adriana Tirca, B.Eng (Chem)
Department Supervisor

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC, water extraction	Ottawa	21-May-26	22-May-26
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	Ottawa	21-May-26	22-May-26
Mercury by CVAA	EPA 7471B - CVAA, digestion	Ottawa	21-May-26	22-May-26
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	Ottawa	21-May-26	21-May-26
Phosphorus, total	EPA 365.4 - Auto Colour, digestion	Ottawa	21-May-26	21-May-26
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	Ottawa	21-May-26	21-May-26
Solids, %	CWS Tier 1 - Gravimetric		19-May-26	20-May-26

PARACEL LABORATORIES LTD.

Order #: 2620597

Certificate of Analysis

Report Date: 22-May-2026

Client: **Paterson Group Consulting Engineers (Ottawa)**

Order Date: 15-May-2026

Client PO: 65927

Project Description: PE7543

	Client ID:	HTP1-26-G2	HTP2-26-G2	HTP3-26-G2	HTP4-26-G2	-	-
	Sample Date:	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00		
	Sample ID:	2620597-01	2620597-02	2620597-03	2620597-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	82.8	81.5	83.0	83.6	-	-
General Inorganics							
Phosphorus, total	10.0 ug/g	454	727	668	313	-	-
Anions							
Fluoride	1 ug/g	<1	1	<1	<1	-	-
Metals							
Lithium	0.5 ug/g	4	4	6	4	-	-
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.0	1.1	<1.0	<1.0	-	-
Barium	1.0 ug/g	25.1	38.6	32.2	24.8	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	<5.0	<5.0	<5.0	<5.0	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	12.2	9.9	10.3	6.9	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	0.2	-	-
Cobalt	1.0 ug/g	3.5	2.6	2.3	1.2	-	-
Copper	5.0 ug/g	<5.0	<5.0	<5.0	<5.0	-	-
Lead	1.0 ug/g	13.8	3.0	2.3	2.9	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	5.6	5.1	5.6	<5.0	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	22.4	18.0	19.6	<10.0	-	-

	Client ID:	HTP1-26-G2	HTP2-26-G2	HTP3-26-G2	HTP4-26-G2	-	-
	Sample Date:	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00		
	Sample ID:	2620597-01	2620597-02	2620597-03	2620597-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Zinc	20.0 ug/g	<20.0	<20.0	<20.0	<20.0	-	-

Certificate of Analysis

Report Date: 22-May-2026

Client: **Paterson Group Consulting Engineers (Ottawa)**

Order Date: 15-May-2026

Client PO: 65927

Project Description: PE7543

	Client ID:	HTP7-26-G2	HTP8-26-G2	HTP5-26-G1	HTP6-26-G1	-	-
	Sample Date:	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00		
	Sample ID:	2620597-05	2620597-06	2620597-07	2620597-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	81.9	79.5	84.1	81.3	-	-
General Inorganics							
Phosphorus, total	10.0 ug/g	1010	1010	563	856	-	-
Anions							
Fluoride	1 ug/g	1	1	<1	2	-	-
Metals							
Lithium	0.5 ug/g	6	5	4	7	-	-
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.3	1.4	1.7	2.4	-	-
Barium	1.0 ug/g	126	95.6	21.3	92.2	-	-
Beryllium	0.5 ug/g	0.5	<0.5	<0.5	0.6	-	-
Boron	5.0 ug/g	<5.0	<5.0	<5.0	<5.0	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	25.9	18.0	14.9	28.0	-	-
Chromium (VI)	0.2 ug/g	0.5	<0.2	0.3	<0.2	-	-
Cobalt	1.0 ug/g	6.3	4.4	4.2	7.2	-	-
Copper	5.0 ug/g	10.5	7.6	<5.0	16.4	-	-
Lead	1.0 ug/g	3.6	3.7	2.2	3.6	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	11.1	8.9	6.2	14.2	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	10.0 ug/g	61.3	30.5	30.7	49.0	-	-

	Client ID:	HTP7-26-G2	HTP8-26-G2	HTP5-26-G1	HTP6-26-G1	-	-
	Sample Date:	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00	12-May-26 09:00		
	Sample ID:	2620597-05	2620597-06	2620597-07	2620597-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Zinc	20.0 ug/g	23.2	21.8	<20.0	<20.0	-	-

Certificate of Analysis

Report Date: 22-May-2026

Client: **Paterson Group Consulting Engineers (Ottawa)**

Order Date: 15-May-2026

Client PO: **65927**

Project Description: **PE7543**

	Client ID:	HTP9-26-G1	HTP10-26-G1			-	-
	Sample Date:	12-May-26 09:00	12-May-26 09:00				
	Sample ID:	2620597-09	2620597-10				
	Matrix:	Soil	Soil				
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	84.6	83.3	-	-	-	-
General Inorganics							
Phosphorus, total	10.0 ug/g	899	1130	-	-	-	-
Anions							
Fluoride	1 ug/g	2	2	-	-	-	-
Metals							
Lithium	0.5 ug/g	6	6	-	-	-	-
Antimony	1.0 ug/g	<1.0	<1.0	-	-	-	-
Arsenic	1.0 ug/g	2.0	2.3	-	-	-	-
Barium	1.0 ug/g	95.6	98.3	-	-	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	-	-	-	-
Boron	5.0 ug/g	<5.0	<5.0	-	-	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	-	-	-	-
Chromium	5.0 ug/g	22.7	25.0	-	-	-	-
Chromium (VI)	0.2 ug/g	0.7	0.9	-	-	-	-
Cobalt	1.0 ug/g	6.3	5.2	-	-	-	-
Copper	5.0 ug/g	9.5	12.4	-	-	-	-
Lead	1.0 ug/g	3.2	3.5	-	-	-	-
Mercury	0.1 ug/g	<0.1	<0.1	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	-	-	-	-
Nickel	5.0 ug/g	10.6	11.5	-	-	-	-
Selenium	1.0 ug/g	<1.0	<1.0	-	-	-	-
Silver	0.3 ug/g	<0.3	<0.3	-	-	-	-
Thallium	1.0 ug/g	<1.0	<1.0	-	-	-	-
Uranium	1.0 ug/g	<1.0	<1.0	-	-	-	-
Vanadium	10.0 ug/g	44.3	44.5	-	-	-	-

	Client ID:	HTP9-26-G1	HTP10-26-G1			-	-
	Sample Date:	12-May-26 09:00	12-May-26 09:00				
	Sample ID:	2620597-09	2620597-10				
	Matrix:	Soil	Soil				
	MDL/Units						
Metals							
Zinc	20.0 ug/g	23.2	22.3	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions								
Fluoride	ND	1	ug/g					
General Inorganics								
Phosphorus, total	ND	10.0	ug/g					
Metals								
Chromium (VI)	ND	0.2	ug/g					
Lithium	ND	0.5	ug/g					
Mercury	ND	0.1	ug/g					
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Fluoride	ND	1	ug/g	ND			NC	35	
General Inorganics									
Phosphorus, total	447	10.0	ug/g	454			1.5	34	
Metals									
Lithium	24.7	0.5	ug/g	23.6			4.8	30	
Antimony	2.4	1.0	ug/g	2.6			5.2	30	
Arsenic	2.4	1.0	ug/g	2.5			1.0	30	
Barium	122	1.0	ug/g	112			8.5	30	
Beryllium	0.6	0.5	ug/g	0.6			1.5	30	
Boron	9.2	5.0	ug/g	8.5			8.2	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	67.0	5.0	ug/g	62.4			7.1	30	
Cobalt	12.8	1.0	ug/g	11.7			9.2	30	
Copper	28.3	5.0	ug/g	26.2			7.5	30	
Lead	6.0	1.0	ug/g	5.8			4.3	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	36.2	5.0	ug/g	34.4			5.3	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	1.2	1.0	ug/g	1.1			5.5	30	
Vanadium	55.2	10.0	ug/g	50.9			8.0	30	
Zinc	63.3	20.0	ug/g	59.3			6.4	30	
Physical Characteristics									
% Solids	81.0	0.1	% by Wt.	81.4			0.4	25	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Fluoride	11.0	1	ug/g	ND	110	78-122			
General Inorganics									
Phosphorus, total	619	10.0	ug/g	454	109	64-136			
Metals									
Lithium	52.6	0.5	ug/g	9.4	86.3	70-130			
Antimony	37.0	1.0	ug/g	1.0	71.9	70-130			
Arsenic	44.0	1.0	ug/g	1.0	86.1	70-130			
Barium	87.5	1.0	ug/g	44.9	85.2	70-130			
Beryllium	46.4	0.5	ug/g	ND	92.2	70-130			
Boron	48.9	5.0	ug/g	ND	91.1	70-130			
Cadmium	44.8	0.5	ug/g	ND	89.6	70-130			
Chromium (VI)	5.1	0.2	ug/g	ND	102	66-118			
Chromium	70.7	5.0	ug/g	25.0	91.6	70-130			
Cobalt	48.9	1.0	ug/g	4.7	88.4	70-130			
Copper	52.6	5.0	ug/g	10.5	84.2	70-130			
Lead	46.3	1.0	ug/g	2.3	88.0	70-130			
Mercury	1.50	0.1	ug/g	ND	100	70-130			
Molybdenum	44.7	1.0	ug/g	ND	89.0	70-130			
Nickel	56.9	5.0	ug/g	13.8	86.2	70-130			
Selenium	43.6	1.0	ug/g	ND	86.8	70-130			
Silver	41.1	0.3	ug/g	ND	82.1	70-130			
Thallium	44.2	1.0	ug/g	ND	88.3	70-130			
Uranium	45.1	1.0	ug/g	ND	89.2	70-130			
Vanadium	66.4	10.0	ug/g	20.4	92.2	70-130			
Zinc	65.5	20.0	ug/g	23.7	83.4	70-130			

Certificate of Analysis

Report Date: 22-May-2026

Client: **Paterson Group Consulting Engineers (Ottawa)**

Order Date: 15-May-2026

Client PO: 65927

Project Description: PE7543

Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

Any use of these results implies your agreement that our total liabilty in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

PARACE LABORATORIES L

Paracel ID: 2620597

ead Office
00-2319 St. Laurent Blvd.
ttawa, Ontario K1G 4J8
1-800-749-1947
paracel@paracellabs.com
ww.paracellabs.com

Paracel Order Number (Lab Use Only): 2620597

Chain Of Custody (Lab Use Only)

Client Name:	Paterson Group
Contact Name:	Michael Beaudoin
Address:	9 Auriga Dr, Ottawa, ON K2E 7T9
Telephone:	(613) 226-7381
Project Ref:	PE 7543
Quote #:	
PO #:	65927
E-mail:	mbeaudoin@patersongroup.ca cdenidder@patersongroup.ca

Page 1 of 1

Turnaround Time

☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular

Date Required: _____

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☐ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation

☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: _____
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	Lithium	Fluoride	Phosphorus	
1	HTP1-26-G2	S	/	1	/	5/12/2026					X	X	X		X	X	X	
2	HTP2-26-G2																	
3	HTP3-26-G2																	
4	HTP4-26-G2																	
5	HTP7-26-G2																	
6	HTP8-26-G2																	
7	HTP5-26-G1																	
8	HTP6-26-G1																	
9	HTP9-26-G1																	
10	HTP10-26-G1	↓	↓	↓	↓	↓					↓	↓	↓		↓	↓	↓	

Required Analysis

Comments:

Method of Delivery: Paracel Courier

Relinquished By (Sign):	Clea Blais.	Received at Depot:	Received at Lab:
Relinquished By (Print):	Clea Blais.	Date/Time:	Date/Time: 15 May 2026 1543
Date/Time:	5/15/2026	Temperature: °C	Temperature: 11.6
			Verified By: LTJ
			Date/Time: 15/05/26; 17:14
			pH Verified: ☐ By:

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Certificate of Analysis

Paterson Group Consulting Engineers (Ottawa)
9 Auriga Drive
Ottawa, ON K2E 7T9
Attn: Mike Beaudoin

Client PO: 65928
Project: PE7543
Custody:

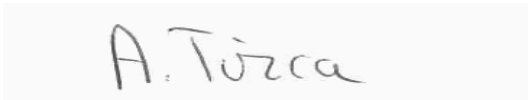
Report Date: 22-May-2026
Order Date: 15-May-2026

Order #: 2620598

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2620598-01	4186-GW
2620598-02	MWTR24-1-GW

Approved By:



Adriana Tirca, B.Eng (Chem)
Department Supervisor

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Chromium, hexavalent - water	MOE E3056 - colourimetric	Ottawa	19-May-26	20-May-26
Mercury by CVAA	EPA 245.2 - Cold Vapour AA	Ottawa	21-May-26	22-May-26
Metals, ICP-MS	EPA 200.8 - ICP-MS	Ottawa	19-May-26	20-May-26

Certificate of Analysis

Report Date: 22-May-2026

Client: **Paterson Group Consulting Engineers (Ottawa)**

Order Date: 15-May-2026

Client PO: **65928**

Project Description: PE7543

	Client ID:	4186-GW	MWTR24-1-GW	-	-	-	-
	Sample Date:	12-May-26 09:00	14-May-26 09:00	-	-		
	Sample ID:	2620598-01	2620598-02	-	-		
	Matrix:	Ground Water	Ground Water	-	-		
	MDL/Units						
Metals							
Lithium	1.0 ug/L	5.3	6.8	-	-	-	-
Mercury	0.1 ug/L	<0.1	<0.1	-	-	-	-
Antimony	0.5 ug/L	<0.5	<0.5	-	-	-	-
Arsenic	1 ug/L	<1	<1	-	-	-	-
Barium	1 ug/L	711	318	-	-	-	-
Beryllium	0.5 ug/L	<0.5	<0.5	-	-	-	-
Boron	10 ug/L	16	21	-	-	-	-
Cadmium	0.1 ug/L	<0.1	<0.1	-	-	-	-
Chromium	1 ug/L	<1	<1	-	-	-	-
Chromium (VI)	10 ug/L	<10	<10	-	-	-	-
Cobalt	0.5 ug/L	<0.5	<0.5	-	-	-	-
Copper	0.5 ug/L	1.6	<0.5	-	-	-	-
Lead	0.1 ug/L	<0.1	<0.1	-	-	-	-
Molybdenum	0.5 ug/L	0.6	4.1	-	-	-	-
Nickel	1 ug/L	3	<1	-	-	-	-
Selenium	1 ug/L	<1	<1	-	-	-	-
Silver	0.1 ug/L	<0.1	<0.1	-	-	-	-
Sodium	200 ug/L	98000	6220	-	-	-	-
Thallium	0.1 ug/L	<0.1	<0.1	-	-	-	-
Uranium	0.1 ug/L	<0.1	0.2	-	-	-	-
Vanadium	0.5 ug/L	<0.5	<0.5	-	-	-	-
Zinc	5 ug/L	42	<5	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals								
Antimony	ND	0.5	ug/L					
Arsenic	ND	1	ug/L					
Barium	ND	1	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10	ug/L					
Cadmium	ND	0.1	ug/L					
Chromium	ND	1	ug/L					
Chromium (VI)	ND	10	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.1	ug/L					
Lithium	ND	1.0	ug/L					
Mercury	ND	0.1	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1	ug/L					
Selenium	ND	1	ug/L					
Silver	ND	0.1	ug/L					
Sodium	ND	200	ug/L					
Thallium	ND	0.1	ug/L					
Uranium	ND	0.1	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5	ug/L					

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Lithium	1.62	1.0	ug/L	1.67			2.9	20	
Mercury	ND	0.1	ug/L	ND			NC	20	
Antimony	1.04	0.5	ug/L	1.01			2.9	20	
Arsenic	ND	1	ug/L	ND			NC	20	
Barium	23.0	1	ug/L	23.6			2.6	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	17	10	ug/L	18			0.9	20	
Cadmium	ND	0.1	ug/L	ND			NC	20	
Chromium (VI)	ND	10	ug/L	ND			NC	20	
Chromium	ND	1	ug/L	ND			NC	20	
Cobalt	ND	0.5	ug/L	ND			NC	20	
Copper	3.37	0.5	ug/L	3.33			1.2	20	
Lead	ND	0.1	ug/L	ND			NC	20	
Molybdenum	1.14	0.5	ug/L	1.13			1.4	20	
Nickel	ND	1	ug/L	ND			NC	20	
Selenium	ND	1	ug/L	ND			NC	20	
Silver	ND	0.1	ug/L	ND			NC	20	
Sodium	14900	200	ug/L	15100			1.2	20	
Thallium	ND	0.1	ug/L	ND			NC	20	
Uranium	ND	0.1	ug/L	ND			NC	20	
Vanadium	ND	0.5	ug/L	ND			NC	20	
Zinc	8	5	ug/L	8			2.7	20	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Lithium	47.5	1.0	ug/L	1.67	91.7	80-120			
Mercury	2.80	0.1	ug/L	ND	93.2	70-130			
Antimony	43.3	0.5	ug/L	1.01	84.5	80-120			
Arsenic	49.9	1	ug/L	ND	99.0	80-120			
Barium	71.7	1	ug/L	23.6	96.3	80-120			
Beryllium	49.5	0.5	ug/L	ND	99.0	80-120			
Boron	62	10	ug/L	18	89.4	80-120			
Cadmium	49.5	0.1	ug/L	ND	99.0	80-120			
Chromium (VI)	206	10	ug/L	ND	103	75-115			
Chromium	51.5	1	ug/L	ND	103	80-120			
Cobalt	49.7	0.5	ug/L	ND	99.4	80-120			
Copper	50.5	0.5	ug/L	3.33	94.3	80-120			
Lead	46.0	0.1	ug/L	ND	92.0	80-120			
Molybdenum	49.0	0.5	ug/L	1.13	95.8	80-120			
Nickel	49.3	1	ug/L	ND	97.4	80-120			
Selenium	48.8	1	ug/L	ND	97.3	80-120			
Silver	44.2	0.1	ug/L	ND	88.5	80-120			
Sodium	23200	200	ug/L	15100	80.9	80-120			
Thallium	46.7	0.1	ug/L	ND	93.5	80-120			
Uranium	48.9	0.1	ug/L	ND	97.8	80-120			
Vanadium	52.6	0.5	ug/L	ND	105	80-120			
Zinc	54	5	ug/L	8	92.4	80-120			

Certificate of Analysis

Report Date: 22-May-2026

Client: **Paterson Group Consulting Engineers (Ottawa)**

Order Date: 15-May-2026

Client PO: 65928

Project Description: PE7543

Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Any use of these results implies your agreement that our total liabilty in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

PARACE LABORATORIES LT

Paracel ID: 2620598

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Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2620598	

Client Name: Paterson Group	Project Ref: PE7543	Page 1 of 1
Contact Name: Michael Beaudoin	Quote #:	**Turnaround Time**
Address: 9 Auriga Dr, Ottawa, ON K2E 7T9	PO #: 65928	☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Telephone: (613) 226-7381	E-mail: Mbeaudoin@patersongroup.ca cderidder@patersongroup.ca	Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☐ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation

☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun:
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	Lithium	Fluoride	Phosphorus	
1	4186-GW	GW	/	3	✓	05/12/26					X	X	X		X	X	X	
2	MWTR24-1-GW	GW	/	4	✓	05/14/26					X	X	X		X	X	X	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Paracel Courier

Relinquished By (Sign): CR	Received at Depot:	Received at Lab:	Verified By: LJ
Relinquished By (Print): Carson de Ridder	Date/Time:	Date/Time: 15 May 2026 13:43	Date/Time: 15/05/26 17:50
Date/Time: 05/15/2026	Temperature: °C	Temperature: 11.6	pH Verified: ☐ By:

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146 Colonnade Rd, Unit 8, Ottawa, ON K2E 7Y1 (613) 727-5692

OFFICIAL CERTIFICATE OF ANALYSIS : 4692392

WORK REQUEST : 100433061

Report Date : 2026-05-20

Paterson Group
9 Auriga Dr
Nepean, Ontario
K2E 7T9
Attention : Chris Green

Reception Date : 2026-05-13
Project : PE7543
Sampler : NA
PO Number : 65891
Temperature : 7 °C

Analysis	Quantity	External Method
Alkalinity (Water, Automated)	1	Modified from SM 2320 B
Ammonia, Total (Water, Colorimetry)	1	Modified from EPA 350.1
Chloride (Water, IC)	1	Modified from SM 4110 B and C
Colour, Apparent (Water, Spectrophotometry)	1	Modified from SM 2120 C
Colour, True (Water, Spectrophotometry)	1	Modified from SM 2120 C
Conductivity (Water, Automated)	1	Modified from SM 2510 B
DOC (Water, IR)	1	Modified from SM 5310 B
Escherichia coli (DC Plate)	1	Modified from MECP E3407
Fluoride (Water, Auto/ISE)	1	Modified from SM 4500-F A and 4500-F C
Hardness (Water, Calculation Only)	1	SM 2340 B
Ion Balance (Water, Calculation)	1	Modified from SM1030 E
Metals Scan (Water, ICP/MS)	1	Modified from EPA 200.8
Metals Scan (Water, ICP/OES)	1	Modified from SM 3120 B
Nitrate (Water, IC)	1	Modified from SM 4110 B and C
Nitrite (Water, IC)	1	Modified from SM 4110 B and C
pH (25°C) (Water, Automated)	1	Modified from SM 4500-H+ B
Phenols (Water, Colorimetry)	1	Modified from EPA 420.2
Sulphate (Water, IC)	1	Modified from SM 4110 B and C
Sulphide (Water, Colorimetry)	1	Modified from SM 4500-S2 D
Tannin and Lignin (Water, Spec)	1	Modified from SM 5550 B
TDS (Estimated)	1	Modified from SM 2510 A
Total Coliforms (DC Plate)	1	Modified from MECP E3407
Total Kjeldahl Nitrogen (Water, Colorimetry)	1	Modified from EPA 351.2
Turbidity (Water, Turbidimeter)	1	Modified from SM 2130 B

Criteria :
A : Ontario Regulation 169/03 (Non-Regulated Drinking Water)

Sample status upon receipt :
9656281
Compliant

Certificate Comments :
9656281
N-NO2 and N-NO3 MRL increased due to matrix interference.

Notes :
- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at https://directory.cala.ca/
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Legend :
RL : Reporting limit
QC : Reference material (QC)
N/A : Not applicable
1 : Results in annex
* : Analysis conducted by external subcontracting
^ : Analysis not accredited

This certificate of analysis corrects and replaces any previous version. The analysis results refer only to what was provided for testing.
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Method references and/or additional QA/QC information available on request.

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OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PE7543

Reception Date : 2026-05-13

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9656281	4186 GW	Colour (Apparent)	69	TCU	5		
Hardness (Water, Calculation Only)							
9656281	4186 GW	Hardness as CaCO3 (Calculation)	433	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9656281	4186 GW	Iron	2.15	mg/L	0.3		
9656281	4186 GW	Manganese	0.13	mg/L	0.05		
Turbidity (Water, Turbidimeter)							
9656281	4186 GW	Turbidity	14.4	NTU	5		

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OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PE7543

Reception Date: 2026-05-13

					Eurofins Sample No :	**9656281**				
					Matrix :	Groundwater				
					Sampling Date :	2026-05-12				
					Client Sample Identification :	4186 GW				
Anions			**Criteria**							
	RL	**Unit**	**A**	**B**	**C**					
Chloride	0.5	mg/L	250			241				
Sulphate	1	mg/L	500			43				

					Eurofins Sample No :	**9656281**				
					Matrix :	Groundwater				
					Sampling Date :	2026-05-12				
					Client Sample Identification :	4186 GW				
Calculations	**RL**	**Unit**								
Ion Balance (Calculation)^	0.1		1.06							

					Eurofins Sample No :	**9656281**				
					Matrix :	Groundwater				
					Sampling Date :	2026-05-12				
					Client Sample Identification :	4186 GW				
General Chemistry			**Criteria**							
	RL	**Unit**	**A**	**B**	**C**					
Alkalinity (as CaCO3)	5	mg/L	500			204				
Colour (Apparent)	2	TCU	5			69				
Colour (True)	2	TCU				2				
Conductivity @ 25°C	5	µS/cm				<5				
Dissolved Organic Carbon	0.5	mg/L	5			3.1				
Fluoride	0.1	mg/L	1.5			0.28				
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			433				
pH @ 25°C	1		6.5-8.5			8.35				
Phenols-4AAP	0.001	mg/L				<0.001				
Sulphide (S2-)	0.01	mg/L	0.05			<0.01				
Tannin and Lignin	0.1	mg/L				<0.1				
TDS (Estimated)^	5	mg/L	500			<5				
Turbidity	0.1	NTU	5			14.4				

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OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PE7543

Reception Date: 2026-05-13

					Eurofins Sample No :	**9656281**				
					Matrix :	Groundwater				
					Sampling Date :	2026-05-12				
					Client Sample Identification :	4186 GW				
Metals			**Criteria**							
	RL	**Unit**	**A**	**B**	**C**					
Metals Scan (Water, ICP/MS)										
Aluminum	0.01	mg/L	0.1			<0.01				
Antimony	0.0005	mg/L	0.006			<0.0005				
Arsenic	0.001	mg/L	0.01			<0.001				
Barium	0.001	mg/L	1			0.697				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.02				
Cadmium	0.0001	mg/L	0.005			<0.0001				
Chromium	0.001	mg/L	0.05			<0.001				
Cobalt	0.0002	mg/L				<0.0002				
Copper	0.001	mg/L	1			0.014				
Iron	0.03	mg/L	0.3			2.15				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.13				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				0.015				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				0.357				
Thallium	0.0001	mg/L				<0.0001				
Uranium	0.001	mg/L	0.02			<0.001				
Vanadium	0.001	mg/L				<0.001				
Zinc	0.01	mg/L	5			0.25				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				119				
Magnesium	1	mg/L				33				
Potassium	1	mg/L				2				
Sodium	1	mg/L	200			88				

					Eurofins Sample No :	**9656281**				
					Matrix :	Groundwater				
					Sampling Date :	2026-05-12				
					Client Sample Identification :	4186 GW				
Microbiology			**Criteria**							
	RL	**Unit**	**A**	**B**	**C**					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

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Method references and/or additional QA/QC information available on request.

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OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PE7543

Reception Date: 2026-05-13

					Eurofins Sample No :	**9656281**				
					Matrix :	Groundwater				
					Sampling Date :	2026-05-12				
					Client Sample Identification :	4186 GW				
Nutrients	**RL**	**Unit**	**Criteria**							
			A	**B**	**C**					
Ammonia (Total, as Nitrogen)	0.02	mg/L				<0.020				
Nitrate (as Nitrogen)	0.1	mg/L	10.0			<0.5				
Nitrite (as Nitrogen)	0.1	mg/L	1.0			<0.5				
Total Kjeldahl Nitrogen	0.1	mg/L				0.235				

Approved by :
Addrine Thomas,
Inorganic supervisor, Ottawa

Approved by :
Amy Walpole-James,
Quality Assurance Manager

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OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PE7543

Reception Date: 2026-05-13

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Alkalinity (Water, Automated)									
Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.									
Alkalinity (as CaCO3)	mg/L	5	<5	98	95-105			2	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	112	80-120	100	80-120	-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	108	80-120	95	80-120	2	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	103	78-116			-	0-40
Associated Samples : 9656281								Prep Date: 2026-05-17 Analysis Date: 2026-05-19	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	98	78-116			-	0-40
Associated Samples : 9656281								Prep Date: 2026-05-19 Analysis Date: 2026-05-19	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	100	98-102			1	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
DOC (Water, IR)									
Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.									
Dissolved Organic Carbon	mg/L	0.5	<0.5	98	88-112	97	85-115	-	0-15
Associated Samples : 9656281								Prep Date: 2026-05-15 Analysis Date: 2026-05-17	
Escherichia coli (DC Plate)									
Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296.									
Escherichia coli (DC)	CFU/100mL	0	0					-	0-30
Associated Samples : 9656281								Prep Date: 2026-05-13 Analysis Date: 2026-05-14	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	99	90-110			-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	

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OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PE7543

Reception Date: 2026-05-13

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Metals Scan (Water, ICP/MS)									
Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.									
Aluminum	mg/L	0.01	<0.01	100	80-120			0	0-20
Antimony	mg/L	0.0005	<0.0005	85	80-120	118	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	120	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120			0	0-20
Beryllium	mg/L	0.0005	<0.0005	107	80-120	120	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120			0	0-20
Cadmium	mg/L	0.0001	<0.0001	112	80-120	119	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	120	80-120			-	0-20
Cobalt	mg/L	0.0002	<0.0002	115	80-120	98	70-130	3	0-20
Copper	mg/L	0.001	<0.001	120	80-120	76	70-130	0	0-20
Iron	mg/L	0.03	<0.03	100	80-120	-331	70-130	0	0-20
Lead	mg/L	0.001	<0.001	100	80-120	110	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	40	70-130	0	0-20
Mercury	mg/L	0.0001	<0.0001	106	80-118	95	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	120	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	130	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	100	80-120	110	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	100	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	110	80-120			0	0-20
Thallium	mg/L	0.0001	<0.0001	892	80-120	109	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	110	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	110	80-120	130	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	100	80-120	100	70-130	-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-20 Analysis Date: 2026-05-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	99	86-115	93	70-130	0	0-20
Magnesium	mg/L	1	<1	95	91-109	101	70-130	0	0-20
Potassium	mg/L	1	<1	105	87-113	111	70-130	-	0-20
Sodium	mg/L	1	<1	104	85-115	103	70-130	-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-15 Analysis Date: 2026-05-13	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	98	80-120	2	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	103	80-120	101	80-120	-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	7.74	100	97-103			1	7.23-7.63
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	

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OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PE7543

Reception Date: 2026-05-13

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	100	75-125	90	70-130	-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-17 Analysis Date: 2026-05-17	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	95	90-110	85	80-120	1	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	67	48-131			-	0-20
Associated Samples : 9656281								Prep Date: 2026-05-17 Analysis Date: 2026-05-17	
Tannin and Lignin (Water, Spec)									
Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.									
Tannin and Lignin	mg/L	0.1	<0.1	98	80-120				
Associated Samples : 9656281								Prep Date: 2026-05-17 Analysis Date: 2026-05-17	
Total Coliforms (DC Plate)									
Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296.									
Total Coliforms (DC)	CFU/100mL	0	0					-	0-30
Associated Samples : 9656281								Prep Date: 2026-05-13 Analysis Date: 2026-05-14	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	98	70-130	79	70-130	5	0-20
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-15	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	98	80-120			3	0-30
Associated Samples : 9656281								Prep Date: 2026-05-14 Analysis Date: 2026-05-14	

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

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STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

CLIENT INFORMATION

Company: Paterson Group

Contact: Chris Green

Address: 9 Auriga Drive, Ottawa, ON

Telephone: 6132237368 Cell:

Email: #1: cgreen@patersongroup.ca

Email: #2: mbeaudoin@patersongroup.ca

Project: PE7543 Quote #:

INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☑ NO ☐)

Company:

Contact: Email: #1:

Address: Email: #2:

Telephone: PO #: 65891

TURN-AROUND TIME (Business Days)

☐ 1 Day* (100%) ☐ 2 Day** (50%) ☐ 3-5 Days (25%) ☑ 5-7 Days (Standard)

Please contact Lab in advance to determine rush availability. *For results reported after rush due date, surcharges will apply: before 12:00 - 100%, after 12:00 - 50%. **For results reported after rush due date, surcharges will apply: before 12:00 - 50%, after 12:00 - 25%.

TCLP, SPLP, PFAS, and NP/NPE the rush surcharges are 100% (3 day) and 50% (4 day). For farm soils the rush surcharge is 100% (3-5 days). Regular TAT is 10 days.

REGULATION/GUIDELINE REQUIRED

☐ Sanitary Sewer, City: Ottawa

☐ Storm Sewer, City: Ottawa

✓ ODWSOG (Use DW COC if samples are for human consumption)

☐ PWQO

☐ O.Reg. 347 (TCLP)

☐ Other:

☑ O. Reg. 153/04

The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04. Analysis of full parameter list only Yes ☐ No ☐

Table # ___, Coarse / Fine, Surface / subsurface Type: Com-Ind / Res-Park / Agri / GW / All Other / Sediment

☐ O. Reg 406 Excess Soils

Table # _____Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind /Res-Park /Agri/All Other Category: Surface /Subsurface

The optimal temperature conditions during transport is 4 - 10°C. Sample(s) cannot be frozen, unless otherwise indicated or agreed upon with the Laboratory. This COC must not be used for drinking water samples. The COC must be complete upon submission of the samples, there will be a $25 surcharge if required information is missing (required fields are shaded in grey).

Occasionally, situations arise in which Eurofins Environment Testing Canada (Ottawa) is unable to process a sample after receipt. By signing this chain-of-custody form, the client agrees that Eurofins Environment Testing Canada (Ottawa) may subcontract samples to a laboratory that is similarly accredited. This subcontracted laboratory will perform the same analysis using the same or similar methodology. Agreements made in advance to subcontract to a specific laboratory will be honored.

Sample Details

Field Filtered -->

O.Reg.153/04 parameters

Sample ID	Date/Time Collected	Sample Matrix	# of Containers	PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganics	Metals only	See attached paper	N NH3	N NO2	N NO3	TKN	Organic Nitrogen	Subdivision Supply Package (Bact 2 only)	Trace Metals		RN# (Lab Use Only)
4186 GW	May 12, 2026	GW	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	✓	✓	☐	96561281
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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	PRINT NAME	LOCATION	SIGN	DATE/TIME	TEMP. (°C)
Sampled By:	Chris Green	Ottawa		May 12, 2026	
Relinquished By:	Chris Green	Ottawa		May 12, 2026	
Received By:					
Received By:	Anshika Kumar	OTT	Anshika	May 13/2026 1:50pm	6.7

COMMENTS:

100433061

FO

Printed On.: 2026-05-13 15:52:09

CUSTODY SEAL: ☐ YES ☐ NO Ice packs submit ☐ Yes ☐ No

TABLE 1		CLIENT: Paterson Group Consulting Engineers (Ottawa)			
PARACEL LABORATORIES LTD.		ATTENTION: Mike Beaudoin			
WORKORDER: 2620598		PROJECT: PE7543			
REPORT DATE: 05/22/2026		REFERENCE: SO Paterson Group Consulting Engineers			
Parameter	**Units**	**MDL**	**Regulation**	**Sample**	
				4186-GW 2620598-01	**MWTR24-1-GW 2620598-02**
Sample Date (m/d/y)			**Reg 153/04 -T2 Potable Groundwater, coarse**	**05/12/2026 09:00 AM**	**05/14/2026 09:00 AM**
Metals					
Lithium	ug/L	1.0		5.3	6.8
Mercury	ug/L	0.1	0.29 ug/L	ND (0.1)	ND (0.1)
Antimony	ug/L	0.5	6 ug/L	ND (0.5)	ND (0.5)
Arsenic	ug/L	1	25 ug/L	ND (1)	ND (1)
Barium	ug/L	1	1000 ug/L	711	318
Beryllium	ug/L	0.5	4 ug/L	ND (0.5)	ND (0.5)
Boron	ug/L	10	5000 ug/L	16	21
Cadmium	ug/L	0.1	2.7 ug/L	ND (0.1)	ND (0.1)
Chromium	ug/L	1	50 ug/L	ND (1)	ND (1)
Chromium (VI)	ug/L	10	25 ug/L	ND (10)	ND (10)
Cobalt	ug/L	0.5	3.8 ug/L	ND (0.5)	ND (0.5)
Copper	ug/L	0.5	87 ug/L	1.6	ND (0.5)
Lead	ug/L	0.1	10 ug/L	ND (0.1)	ND (0.1)
Molybdenum	ug/L	0.5	70 ug/L	0.6	4.1
Nickel	ug/L	1	100 ug/L	3	ND (1)
Selenium	ug/L	1	10 ug/L	ND (1)	ND (1)
Silver	ug/L	0.1	1.5 ug/L	ND (0.1)	ND (0.1)
Sodium	ug/L	200	490000 ug/L	98000	6220
Thallium	ug/L	0.1	2 ug/L	ND (0.1)	ND (0.1)
Uranium	ug/L	0.1	20 ug/L	ND (0.1)	0.2
Vanadium	ug/L	0.5	6.2 ug/L	ND (0.5)	ND (0.5)
Zinc	ug/L	5	1100 ug/L	42	ND (5)

TABLE 1		CLIENT: Paterson Group Consulting Engineers (Ottawa)										
PARACEL LABORATORIES LTD.		ATTENTION: Mike Beaudoin										
WORKORDER: 2620597		PROJECT: PE7543										
REPORT DATE: 05/22/2026		REFERENCE: SO Paterson Group Consulting Engineers										
Parameter	**Units**	**MDL**	**Regulation**	**Sample**								
				HTP1-26-G2 2620597-01	**HTP2-26-G2 2620597-02**	**HTP3-26-G2 2620597-03**	**HTP4-26-G2 2620597-04**	**HTP7-26-G2 2620597-05**	**HTP8-26-G2 2620597-06**	**HTP5-26-G1 2620597-07**	**HTP6-26-G1 2620597-08**	**HTP9-26-G1 2620597-09**	**HTP10-26-G1 2620597-10**
Sample Date (m/d/y)			**Reg 153/04 -T2 Ind/Com, coarse**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**	**05/12/2026 09:00 AM**
Physical Characteristics													
% Solids	% by Wt.	0.1		82.8	81.5	83.0	83.6	81.9	79.5	84.1	81.3	84.6	83.3
General Inorganics													
Phosphorus, total	ug/g dry	10.0		454	727	668	313	1010	1010	563	856	899	1130
Anions													
Fluoride	ug/g dry	1		ND (1)	1	ND (1)	ND (1)	1	1	ND (1)	2	2	2
Metals													
Lithium	ug/g dry	0.5		4	4	6	4	6	5	4	7	6	6
Antimony	ug/g dry	1.0	40 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g dry	1.0	1.1	ND (1.0)	ND (1.0)	2.3	1.4	1.7	2.4	2.0	2.3
Barium	ug/g dry	1.0	670 ug/g dry	25.1	38.6	32.2	24.8	126	95.6	21.3	92.2	95.6	98.3
Beryllium	ug/g dry	0.5	8 ug/g dry	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.5	ND (0.5)	ND (0.5)	0.6	ND (0.5)	ND (0.5)
Boron	ug/g dry	5.0	120 ug/g dry	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Cadmium	ug/g dry	0.5	1.9 ug/g dry	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium (VI)	ug/g dry	0.2	8 ug/g dry	ND (0.2)	ND (0.2)	ND (0.2)	0.2	0.5	ND (0.2)	0.3	ND (0.2)	0.7	0.9
Chromium	ug/g dry	5.0	160 ug/g dry	12.2	9.9	10.3	6.9	25.9	18.0	14.9	28.0	22.7	25.0
Cobalt	ug/g dry	1.0	80 ug/g dry	3.5	2.6	2.3	1.2	6.3	4.4	4.2	7.2	6.3	5.2
Copper	ug/g dry	5.0	230 ug/g dry	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	10.5	7.6	ND (5.0)	16.4	9.5	12.4
Lead	ug/g dry	1.0	120 ug/g dry	13.8	3.0	2.3	2.9	3.6	3.7	2.2	3.6	3.2	3.5
Mercury	ug/g dry	0.1	3.9 ug/g dry	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Molybdenum	ug/g dry	1.0	40 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Nickel	ug/g dry	5.0	270 ug/g dry	5.6	5.1	5.6	ND (5.0)	11.1	8.9	6.2	14.2	10.6	11.5
Selenium	ug/g dry	1.0	5.5 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	40 ug/g dry	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	3.3 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	33 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g dry	22.4	18.0	19.6	ND (10.0)	61.3	30.5	30.7	49.0	44.3	44.5
Zinc	ug/g dry	20.0	340 ug/g dry	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	23.2	21.8	ND (20.0)	ND (20.0)	23.2	22.3