

August 10, 2026

PH5222-LET.01

Caivan (Stittsville) Inc.
3713 Borrisokane Road
Ottawa, ON
K2J 4J4

Attention: David Lopez

Subject: **Baseline Water Sampling Program
Proposed Residential Development
Magnolia Subdivision, 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
Temporary Shoring Design
Retaining Wall Design
Noise and Vibration Studies
Energy and Sustainability
Temporary Shoring Design
Pile Dynamic Analysis and Testing

patersongroup.ca

Further to your request and authorization, Paterson Group (Paterson) carried out a Baseline Water Sampling Program (BWSP) at select privately serviced lots neighbouring the proposed residential development located at 5971, 5993, 6115, 6141 and 6159 Flewellyn Road, 6070 Fernbank Road, and 1770 and 1820 Shea Road (Magnolia Subdivision) in Ottawa, Ontario. This letter report summarizes the results of the BWSP at the select properties. This letter should be read in conjunction with Paterson Report PH5222-REP.01R dated June 17, 2026.

Background

It is Paterson's understanding at the time of report preparation that the proposed development will consist of townhomes and detached residential dwellings with associated driveways, local roadways and landscaped areas. The development is further expected to have condo blocks, parklands, stormwater management ponds and is expected to be municipally serviced.

The eastern portion of the subject site consists of a cleared area that has been converted into agricultural land. The western portion of the site consists of forested area. The forested area has recently been cleared to accommodate the proposed development. A stormwater management pond which services the adjacent residential development to the north is centrally located within the subject site. Furthermore, a hydro corridor transects the eastern portion of the subject site. The subject site is bordered to the northwest by municipally serviced residential developments, to the east by Shea Road,



to the south by Flewellyn Road and to the west by a privately serviced residential development with country estate lots.

Baseline Water Sampling Program

Based on the water service mapping provided by the City of Ottawa, as well as all available information, a total of twenty-nine (29) potentially privately serviced lots were identified to be included in the BWSP. The following municipal addresses were invited to participate in the BWSP:

- | | |
|---|---|
| ☐ 1 Poplarwood Avenue | ☐ 16 Poplarwood Avenue |
| ☐ 2 Poplarwood Avenue | ☐ 17 Poplarwood Avenue |
| ☐ 3 Poplarwood Avenue | ☐ 18 Poplarwood Avenue |
| ☐ 4 Poplarwood Avenue | ☐ 19 Poplarwood Avenue |
| ☐ 5 Poplarwood Avenue | ☐ 20 Poplarwood Avenue |
| ☐ 6 Poplarwood Avenue | ☐ 21 Poplarwood Avenue |
| ☐ 7 Poplarwood Avenue | ☐ 23 Poplarwood Avenue |
| ☐ 8 Poplarwood Avenue | ☐ 5891 Flewellyn Road |
| ☐ 9 Poplarwood Avenue | ☐ 6015 Flewellyn Road |
| ☐ 10 Poplarwood Avenue | ☐ 6025 Flewellyn Road |
| ☐ 11 Poplarwood Avenue | ☐ 6026 Flewellyn Road |
| ☐ 12 Poplarwood Avenue | ☐ 6035 Flewellyn Road |
| ☐ 13 Poplarwood Avenue | ☐ 6140 Flewellyn Road |
| ☐ 14 Poplarwood Avenue | ☐ 6172 Flewellyn Road |
| ☐ 15 Poplarwood Avenue | |

The scope of the BWSP was determined by Paterson and outlined in Paterson Report PH5222-REP.01R dated June 17, 2026.

The BWSP has been completed to ensure that all parties considered in the project are protected (the developer, the City of Ottawa and the property owners) should a concern arise during or after construction.

A registered letter was issued by Canada Post to each of the addresses included in the BWSP. The contact letter outlined the sampling program, provided contact information for the City of Ottawa representative, and included a Paterson representative's contact information for scheduling in-person appointments. Additional details can be found in the attached Property Owner Baseline Water Sampling Program Letter. Any property owner who contacted Paterson was scheduled for an appointment at the property owner's convenience. Confirmation of the receipt of the registered letter was provided by Canada Post.



If the property owner did not contact Paterson within 2 weeks of receipt of the registered letter, a second letter was hand delivered by Paterson outlining the proposed sampling program. Paterson considered any property owner who did not contact Paterson after receiving the initial registered letter and second hand delivered letter to have declined to participate in the BWSP.

The sampling program extended from July 8 to July 30, 2026. The following was carried out at the municipal addresses who chose to participate in the BWSP:

- ☐ Property owners completed an optional survey questionnaire to provide anecdotal information about the property and constructions specifications of their well.
- ☐ Water samples were recovered from the property's private well by means of a pressure tank or outside spigot prior to filtration or water treatment.
- ☐ The samples were submitted for analytical testing (Subdivision Supply Package) at an accredited laboratory (Eurofins Environment Testing Canada Inc.)

Of the 29 municipal addresses invited to participate in the BWSP, 24 property owners opted to participate in the BSWP. The following are the municipal addresses that were successfully sampled:

- | | |
|---|---|
| ☐ 1 Poplarwood Avenue | ☐ 14 Poplarwood Avenue |
| ☐ 2 Poplarwood Avenue | ☐ 15 Poplarwood Avenue |
| ☐ 3 Poplarwood Avenue | ☐ 16 Poplarwood Avenue |
| ☐ 4 Poplarwood Avenue | ☐ 17 Poplarwood Avenue |
| ☐ 5 Poplarwood Avenue | ☐ 18 Poplarwood Avenue |
| ☐ 6 Poplarwood Avenue | ☐ 19 Poplarwood Avenue |
| ☐ 7 Poplarwood Avenue | ☐ 21 Poplarwood Avenue |
| ☐ 8 Poplarwood Avenue | ☐ 6015 Flewellyn Road |
| ☐ 9 Poplarwood Avenue | ☐ 6025 Flewellyn Road |
| ☐ 10 Poplarwood Avenue | ☐ 6035 Flewellyn Road |
| ☐ 11 Poplarwood Avenue | ☐ 6140 Flewellyn Road |
| ☐ 13 Poplarwood Avenue | ☐ 6172 Flewellyn Road |

The dwelling at 23 Poplarwood Avenue was under construction at the time of the BWSP and therefore did not participate in the program.

Sampling Results

Most sample results had select aesthetic and operational parameter exceedances with respect to the Ontario Drinking Water Standards (ODWS). These parameters generally included colour (apparent), sodium, iron, manganese, total dissolved solids (TDS), and hardness.



The bacteriological test results indicated that three (3) properties had a total coliforms concentration greater than (0 CFU/100 mL). All three properties were notified of the exceedance and were provided a Government of Ontario Well Disinfection Instruction Sheet (see attached).

None of the properties were found to have mineralized water supplies. "Mineralized water" as defined by Ontario Regulation 903 under the Ontario Water Resources Act, is well water that has chloride concentrations greater than 500 mg/L, sulphate concentrations greater than 500 mg/L, or total dissolved solids (TDS) concentrations greater than 6000 mg/L.

Details regarding sample results and exceedances are included in the Certificates of Analysis attached to this report.

Of the sampled addresses, no property owners noted historical issues with water quantity.

We trust that the current submission satisfies your immediate requirements.

Best Regards,

Paterson Group Inc.

Oliver Blume, P.Geo.



Zavian Buchanan, E.I.T.

Attachments

- ☐ Property Owner Baseline Water Sampling Program Letter
- ☐ Government of Ontario Well Disinfection Sheet
- ☐ Certificates of Analysis (Eurofins Environmental Testing)



June 29, 2026
File: PH5222



PATERSON GROUP

Consulting Engineers

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

Attention: **Property Owner**

Subject: **NOTICE**
Baseline Water Sampling Program
Proposed Residential Development
5971, 5993, 6115, 6141 & 6151 Flewellyn Road,
6070 Fernbank Road & 1170 & 1820 Shea Road

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

To whom it may concern,

patersongroup.ca

At the request of Caivan, Paterson Group (Paterson) is conducting a Baseline Water Sampling Program (BWSP) of select neighbouring properties to the proposed residential development at 5971, 5993, 6115, 6141 and 6159 Flewellyn Road, 6070 Fernbank Road, and 1770 and 1820 Shea Road, that are not municipally serviced. The BWSP is meant to be a precautionary measure to document the existing condition of water wells in proximity to the site for the purpose of protecting the property owners should any impacts arise due to construction activities. Should you opt into the BWSP, a questionnaire regarding historical well and water quality information will be shared and a raw water sample from an exterior untreated tap/spigot or pressure tank will be retrieved by a Paterson representative during a scheduled appointment that is convenient to you. The BWSP is **completely voluntary/free** (valued at \$350) and includes a large suite of testing parameters in excess of bacteriological analyses. It generally takes approximately 15 minutes to complete the questionnaire and 15 minutes to collect the water sample. Paterson will provide each participant with a copy of their sample results. Any information obtained during this sampling program will not be released publicly by Paterson, Caivan or the City of Ottawa.

Paterson hopes that you will contact us as soon as possible to arrange an appointment or notify us that you do not wish to participate in the BWSP. Appointments will be available Monday through Friday, 8 am to 4 pm. The program will be open from **July 6 to July 31, 2026**. To schedule an appointment, sign up by scanning the QR code below, email wellsurvey@patersongroup.ca or call 613-223-7368. For any questions unrelated to scheduling, please contact Michel Kearney, P.Geo. at 613-606-5862 or michel.kearney@ottawa.ca.

Best Regards,

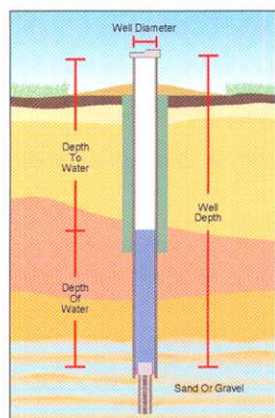
Paterson Group Inc.

Zavian Buchanan, E.I.T.

Hydrogeological Department



Disinfection Instruction Sheet



If your drinking water continues to test positive on repeated submissions, consult your local health unit, which can help you interpret the results of your tests and provide you with advice on what measures you can take to safeguard your drinking water.

The first step in identifying the reason for repeated adverse water quality is to conduct a visual inspection of your well. Start with a close look at your well. The area around it should be

clear of any potential contaminant sources, such as pets, lawn care products, and gardens. Once you're satisfied that the area around your well is okay, take a good, close look at the well itself. If you have an older well, make sure that the cap and the sealant around the well casing isn't cracked or damaged. If it is, you need to fix or replace it right away.

If the source of the problem can't be detected, consult a licensed well contractor right away to identify the source of the problem and eliminate it. You can save yourself a lot of money by doing this instead of rushing out to buy a home treatment device that may be expensive to install, operate, and maintain. And it may not eliminate the source of your trouble.

(If you have a cistern, please talk to your public health unit about disinfection requirements.)

1. Measure the diameter of the well.
2. Measure the well depth and the static or resting water level, then calculate the depth of water in the well.
3. Using the table on this sheet, measure out the amount of bleach needed. (The table gives the volume of bleach needed for different well sizes.) Then, pour the mixture into your well.
4. If possible, mix the water in the well. This can be accomplished by attaching a hose to a tap, running water from the well, through the hose and back into the well.
5. After adding chlorine to the well, remove or bypass any carbon filters that are in the system for water treatment. If you don't, these filters will remove the chlorine from the water, and any pipes beyond the filter will not get disinfected. Replace with new filters after chlorination to avoid reintroducing bacteria into the system.
6. Run water at every faucet in the house (and barn, if you have one) until a strong chlorine odour is detected. Be aware that your nose may lose its ability to detect chlorine.
7. If there is no chlorine smell or it is very weak, add more bleach to the well and repeat Step 6 above.
8. Drain the water heater and fill with chlorinated water.
9. Backflush the water softener and all water filters (except carbon filters).

Volume of Bleach to Add for Every 3 Metres (10 Feet) of Water in the Well*		
Casing Diameter		Volume of Unscented Bleach (5.25% solution)
Millimetres	Inches	Millilitres
50	2	6
100	4	30
150	6	60
200	8	100
250	10	200
300	12	250
400	16	400
500	20	650
600	24	900
900	36	2000 (2 litres)
1200	48	3600 (3.6 litres)

For example: If you have 6 metres (20 feet) of water in your well and it has a casing diameter of 100 mm or 4 inches, you would add 60 mm or 2 fluid ounces of bleach.

* For questions or more information on how to disinfect your well, contact your local health unit.

For more information

Ontario Government Ministry Abbreviations

Ministry of Health and Long-Term Care
MOHLTC (also MOH)

Ministry of the Environment
MOE (also MOEE)

Ontario Ministry of Agriculture and Food
OMAF (also OMAFRA)

Ontario Government Information Lines

MOE Public Information Centre: 1-800-565-4923

MOE Water Well Records: 1-888-396-9355

MOHLTC INFOline: 1-800-268-1154

OMAF Agricultural Information Contact Centre: 1-877-424-1300

Ontario Government Web Sites

MOE: www.ene.gov.on.ca

MOHLTC: www.health.gov.on.ca

OMAF: www.gov.on.ca/omaf

Publications available on-line

Health Canada: www.hc-sc.gc.ca

- *A Guide to Well Water Treatment and Maintenance*;
- *Water treatment devices for disinfection of drinking water*.

MOHLTC: www.health.gov.on.ca

- *How to use water safely during a "Boil Water Advisory"*;
- *E. coli Bacteria*;
- List of Public Health Units in Ontario.

OMAF: www.gov.on.ca/omaf

- *Assessing the Potential for Ground Water Contamination on Your Farm*, Publication 97-017;
- *Best Management Practices: Water Wells*, OMAFRA and Agriculture and Agri-Food Canada, 2003 (to order).

MOE: www.ene.gov.on.ca

- *Important Facts About Water Well Construction*, Publication 3788;
- *Water Wells and Groundwater Supplies: The Protection of Water Quality in Bored and Dug Wells*, Information Sheet PIB 601b;
- *Water Wells and Groundwater Supplies: The Protection of Water Quality in Drilled Wells*, Information Sheet PIB 602b.

OFFICIAL CERTIFICATE OF ANALYSIS : 4759310
WORK REQUEST : 100449933
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66431

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 :

9873521

Compliant
Certificate Comments :

9873521

N-NO2 and N-NO3 MRLs 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9873521	1POP	Hardness as CaCO3 (Calculation)	480	mg/L	80-100		
TDS (Estimated)							
9873521	1POP	TDS (Estimated)^	839	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9873521						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 1POP						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			175			
Sulphate	1	mg/L	500			98			
			Eurofins Sample No : 9873521						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 1POP						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.05						
			Eurofins Sample No : 9873521						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 1POP						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			298			
Colour (Apparent)	2	TCU	5			5			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1290			
Dissolved Organic Carbon	0.5	mg/L	5			1.6			
Fluoride	0.1	mg/L	1.5			0.20			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			480			
pH @ 25°C	1		6.5-8.5			7.64			
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			839			
Turbidity	0.1	NTU	5			1.1			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :						9873521				
Matrix :						Groundwater				
Sampling Date :						2026-07-10				
Client Sample Identification :						1POP				
Metals	RL	Unit	Criteria							
			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			0.274				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.11				
Cadmium	0.0001	mg/L	0.005			<0.0001				
Chromium	0.001	mg/L	0.05			<0.001				
Cobalt	0.0002	mg/L				0.0011				
Copper	0.001	mg/L	1			0.006				
Iron	0.03	mg/L	0.3			0.16				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.04				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				7.75				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				136				
Magnesium	1	mg/L				34				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			89				

Eurofins Sample No :						9873521				
Matrix :						Groundwater				
Sampling Date :						2026-07-10				
Client Sample Identification :						1POP				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

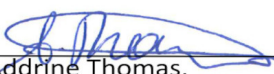
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

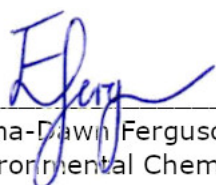
Reception Date: 2026-07-10

			Eurofins Sample No : 9873521						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 1POP						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.023			
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				0.134			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	92	80-120	92	80-120	-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			0	0-40
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9873521								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9873521								Prep Date: 2026-07-11 Analysis Date: 2026-07-12	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9873521								Prep Date: 2026-07-15 Analysis Date: 2026-07-11	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	98	80-120	86	80-120	-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	93	80-120	91	80-120	-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9873521								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	91	90-110	84	80-120	0	0-20
Associated Samples : 9873521								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-16 Analysis Date: 2026-07-16	
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 : 9873521								Prep Date: 2026-07-11 Analysis Date: 2026-07-12	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9873521								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	100	80-120			0	0-30
Associated Samples : 9873521								Prep Date: 2026-07-11 Analysis Date: 2026-07-11	

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

STANDARD CHAIN-OF-CUSTODY

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																																	
Company: Paterson Group				Company:																																	
Contact: Zavlan Buchanan				Contact:										Email: #1:																							
Address: 9 Auriga Drive, Ottawa, ON				Address:										Email: #2:																							
Telephone: 6132237368		Cell:		Telephone:										PO #: 66431																							
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED ☐ O. Reg. 153/04 Table # _____, Coarse / Fine, Surface / subsurface 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 ☐ ☐ O. Reg. 406 Excess Soils Table # _____ Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri / All Other Category: Surface / Subsurface																																	
Email: #2: mlaflamme@patersongroup.ca																																					
Project: PH5222		Quote #:																																			
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%.				☐ Sanitary Sewer, City: Ottawa ☐ Storm Sewer, City: Ottawa ☒ ODWSOG (Use DW COC if samples are for human consumption) ☐ PWQO ☐ O. Reg. 347 (TCLP) ☐ Other: _____																																	
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.																																					
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 ID		Date/Time Collected		Sample Matrix		# of Containers		O. Reg. 153/04 parameters								See attached paper				N-NH3		N-NO2		N-NO3		TKN		Organic Nitrogen		Subsidence Supply Package (Bact 2 only)		Trace Metals		Manganese		RN# (Lab Use Only)	
1POP		July 10, 2026		GW		6		PHC F1 - F4 BTEX VOCs PAHs PCBs Metals + Inorganics Metals only																										9873521			

OFFICIAL CERTIFICATE OF ANALYSIS : 4759309
WORK REQUEST : 100449931
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66432

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 :

9873517

Compliant
Certificate Comments :

9873517

N-NO2 and N-NO3 MRLs increased due to matrix interference. Sr analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9873517	2POP	Colour (Apparent)	25	TCU	5		
Hardness (Water, Calculation Only)							
9873517	2POP	Hardness as CaCO3 (Calculation)	372	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9873517	2POP	Iron	0.46	mg/L	0.3		
TDS (Estimated)							
9873517	2POP	TDS (Estimated)^	780	mg/L	500		
Turbidity (Water, Turbidimeter)							
9873517	2POP	Turbidity	5.6	NTU	5		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9873517						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 2POP						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			145			
Sulphate	1	mg/L	500			98			
			Eurofins Sample No : 9873517						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 2POP						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.03						
			Eurofins Sample No : 9873517						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 2POP						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			281			
Colour (Apparent)	2	TCU	5			25			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1200			
Dissolved Organic Carbon	0.5	mg/L	5			1.7			
Fluoride	0.1	mg/L	1.5			0.85			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			372			
pH @ 25°C	1		6.5-8.5			7.59			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			780			
Turbidity	0.1	NTU	5			5.6			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :						9873517				
Matrix :						Groundwater				
Sampling Date :						2026-07-10				
Client Sample Identification :						2POP				
Metals	RL	Unit	Criteria							
			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			0.089				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.30				
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			0.001				
Iron	0.03	mg/L	0.3			0.46				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.01				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				20.2				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				93				
Magnesium	1	mg/L				34				
Potassium	1	mg/L				9				
Sodium	1	mg/L	200			104				

Eurofins Sample No :						9873517				
Matrix :						Groundwater				
Sampling Date :						2026-07-10				
Client Sample Identification :						2POP				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

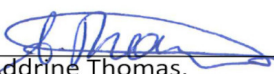
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

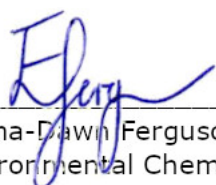
Reception Date: 2026-07-10

			Eurofins Sample No : 9873517						
			Matrix : Groundwater						
			Sampling Date : 2026-07-10						
			Client Sample Identification : 2POP						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.171			
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				0.641			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	92	80-120	92	80-120	-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			0	0-40
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9873517								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9873517								Prep Date: 2026-07-11 Analysis Date: 2026-07-12	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9873517								Prep Date: 2026-07-15 Analysis Date: 2026-07-11	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	98	80-120	86	80-120	-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	93	80-120	91	80-120	-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9873517								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	91	90-110	84	80-120	0	0-20
Associated Samples : 9873517								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-16 Analysis Date: 2026-07-16	
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 : 9873517								Prep Date: 2026-07-11 Analysis Date: 2026-07-12	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9873517								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	100	80-120			0	0-30
Associated Samples : 9873517								Prep Date: 2026-07-11 Analysis Date: 2026-07-11	

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																																																																																																																																																																																																																																																																																																																																							
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Contact: Zavian Buchanan				Contact:										Email: #1:																																																																																																																																																																																																																																																																																																																													
Address: 9 Auriga Drive, Ottawa, ON				Address:										Email: #2:																																																																																																																																																																																																																																																																																																																													
Telephone: 6132237368			Cell:	Telephone:										PO #: 66432																																																																																																																																																																																																																																																																																																																													
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED ☐ Sanitary Sewer, City: <u>Ottawa</u> ☐ Storm Sewer, City: <u>Ottawa</u> ☒ 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/Celling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri/All Other Category: Surface /Subsurface																																																																																																																																																																																																																																																																																																																																							
Email: #2: mlaflamme@patersongroup.ca																																																																																																																																																																																																																																																																																																																																											
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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.																																																																																																																																																																																																																																																																																																																																											
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														RN# (Lab Use Only)																																																																																																																																																																																																																																																																																																																									
				<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th style="width: 5%;">Field Filtered →</th> <th style="width: 5%;">Sample Matrix</th> <th style="width: 5%;"># of Containers</th> <th colspan="10" style="text-align: center;">O.Reg.153/04 parameters</th> <th style="width: 5%;">See attached paper</th> <th style="width: 5%;">N-NH3</th> <th style="width: 5%;">N-NO2</th> <th style="width: 5%;">N-NO3</th> <th style="width: 5%;">TKN</th> <th style="width: 5%;">Organic Nitrogen</th> <th style="width: 5%;">Subsidiary Supply Package (Bacti 2 only)</th> <th style="width: 5%;">Trace Metals</th> <th style="width: 5%;">Manganese</th> </tr> <tr> <th></th> <th></th> <th></th> <th>PHC F1 - F4</th> <th>BTEX</th> <th>VOCs</th> <th>PAHs</th> <th>PCBs</th> <th>Metals + Inorganics</th> <th>Metals only</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>2POP</td> <td>July 10, 2026</td> <td>GW</td> <td>6</td> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☒</td><td>☒</td><td>☐</td> </tr> <!-- Empty rows for the rest of the table --> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> </tbody> </table>																Field Filtered →	Sample Matrix	# of Containers	O.Reg.153/04 parameters										See attached paper	N-NH3	N-NO2	N-NO3	TKN	Organic Nitrogen	Subsidiary Supply Package (Bacti 2 only)	Trace Metals	Manganese				PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganics	Metals only														2POP	July 10, 2026	GW	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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OFFICIAL CERTIFICATE OF ANALYSIS : 4758976
WORK REQUEST : 100449574
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66414

Temperature : 10 °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 :

9869316

Compliant
Certificate Comments :

9869316

N-NO2 and N-NO3 MRLs 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

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869316	3 Poplarwood	Colour (Apparent)	86	TCU	5		
Hardness (Water, Calculation Only)							
9869316	3 Poplarwood	Hardness as CaCO3 (Calculation)	444	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9869316	3 Poplarwood	Iron	1.57	mg/L	0.3		
9869316	3 Poplarwood	Manganese	0.10	mg/L	0.05		
TDS (Estimated)							
9869316	3 Poplarwood	TDS (Estimated)^	800	mg/L	500		
Turbidity (Water, Turbidimeter)							
9869316	3 Poplarwood	Turbidity	17.6	NTU	5		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869316						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 3 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			171			
Sulphate	1	mg/L	500			108			
			Eurofins Sample No : 9869316						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 3 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.00						
			Eurofins Sample No : 9869316						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 3 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			299			
Colour (Apparent)	2	TCU	5			86			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1230			
Dissolved Organic Carbon	0.5	mg/L	5			1.8			
Fluoride	0.1	mg/L	1.5			0.22			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			444			
pH @ 25°C	1		6.5-8.5			7.45			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			800			
Turbidity	0.1	NTU	5			17.6			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :						9869316				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						3 Poplarwood				
Metals	RL	Unit	Criteria							
			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			0.376				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.13				
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			0.003				
Iron	0.03	mg/L	0.3			1.57				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.10				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				9.11				
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			0.04				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				130				
Magnesium	1	mg/L				29				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			95				

Eurofins Sample No :						9869316				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						3 Poplarwood				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

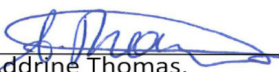
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

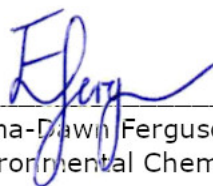
Reception Date: 2026-07-10

			Eurofins Sample No : 9869316						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 3 Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.050			
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				0.224			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	104	80-120	108	80-120	1	0-20
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869316								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869316								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869316								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869316								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	106	80-120	101	80-120	-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	109	80-120	-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869316								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	110	90-110	106	80-120	2	0-20
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869316								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869316								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869316								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

STANDARD CHAIN-OF-CUSTODY

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4758528
WORK REQUEST : 100449553
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10
Project : PH5222
Sampler : NA
PO Number : 66407
Temperature : 10 °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 :

9869176

Compliant
Certificate Comments :

9869176

N-NO2 and N-NO3 MRLs increased due to matrix interference. Sr analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869176	4 Poplarwood	Colour (Apparent)	38	TCU	5		
Hardness (Water, Calculation Only)							
9869176	4 Poplarwood	Hardness as CaCO3 (Calculation)	381	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9869176	4 Poplarwood	Iron	1.25	mg/L	0.3		
TDS (Estimated)							
9869176	4 Poplarwood	TDS (Estimated)^	748	mg/L	500		
Turbidity (Water, Turbidimeter)							
9869176	4 Poplarwood	Turbidity	15.0	NTU	5		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869176						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 4 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			151			
Sulphate	1	mg/L	500			108			
			Eurofins Sample No : 9869176						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 4 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						
			Eurofins Sample No : 9869176						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 4 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			275			
Colour (Apparent)	2	TCU	5			38			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1150			
Dissolved Organic Carbon	0.5	mg/L	5			1.6			
Fluoride	0.1	mg/L	1.5			0.51			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			381			
pH @ 25°C	1		6.5-8.5			7.32			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			748			
Turbidity	0.1	NTU	5			15.0			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No : 9869176									
Matrix : Groundwater									
Sampling Date : 2026-07-09									
Client Sample Identification : 4 Poplarwood									
Metals	RL	Unit	Criteria						
			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			0.153			
Beryllium	0.0005	mg/L				<0.0005			
Boron	0.01	mg/L	5			0.24			
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			<0.001			
Iron	0.03	mg/L	0.3			1.25			
Lead	0.001	mg/L	0.01			<0.001			
Manganese	0.01	mg/L	0.05			0.03			
Mercury	0.0001	mg/L	0.001			<0.0001			
Molybdenum	0.005	mg/L				<0.005			
Nickel	0.005	mg/L				<0.005			
Selenium	0.001	mg/L	0.05			<0.001			
Silver	0.0001	mg/L				<0.0001			
Strontium	0.001	mg/L				14.5			
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			<0.01			
Metals Scan (Water, ICP/OES)									
Calcium	1	mg/L				103			
Magnesium	1	mg/L				30			
Potassium	1	mg/L				6			
Sodium	1	mg/L	200			102			

Eurofins Sample No : 9869176									
Matrix : Groundwater									
Sampling Date : 2026-07-09									
Client Sample Identification : 4 Poplarwood									
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

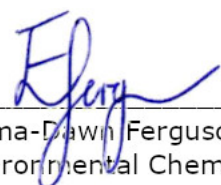
Reception Date: 2026-07-10

			Eurofins Sample No : 9869176						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 4 Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.078			
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				0.180			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120	2	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869176								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869176								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	7	0-15
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869176								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	103	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	102	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	97	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	98	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	97	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	97	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	90	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	91	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	92	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	85	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	93	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	93	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	93	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	98	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	94	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	85	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	84	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	98	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	90	70-130	-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869176								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869176								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869176								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869176								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

STANDARD CHAIN-OF-CUSTODY

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4787331
WORK REQUEST : 100454356
Report Date : 2026-08-05
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-29

Project : PH5222

Sampler : NA

PO Number : 66598

Temperature : 11 °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 :

9930809

Compliant
Certificate Comments :

9930809

N-NO2 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-29

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9930809	5 Pop	Colour (Apparent)	8	TCU	5		
Hardness (Water, Calculation Only)							
9930809	5 Pop	Hardness as CaCO3 (Calculation)	412	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9930809	5 Pop	Iron	0.56	mg/L	0.3		
TDS (Estimated)							
9930809	5 Pop	TDS (Estimated)^	742	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-29

			Eurofins Sample No : 9930809						
			Matrix : Groundwater						
			Sampling Date : 2026-07-29						
			Client Sample Identification : 5 Pop						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			160			
Fluoride	0.1	mg/L	1.5			0.10			
Sulphate	1	mg/L	500			57			

			Eurofins Sample No : 9930809						
			Matrix : Groundwater						
			Sampling Date : 2026-07-29						
			Client Sample Identification : 5 Pop						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.03						

			Eurofins Sample No : 9930809						
			Matrix : Groundwater						
			Sampling Date : 2026-07-29						
			Client Sample Identification : 5 Pop						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			313			
Colour (Apparent)	2	TCU	5			8			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1140			
Dissolved Organic Carbon	0.5	mg/L	5			3.5			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			412			
pH @ 25°C	1		6.5-8.5			7.42			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			742			
Turbidity	0.1	NTU	5			1.9			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-29

Eurofins Sample No :					9930809					
Matrix :					Groundwater					
Sampling Date :					2026-07-29					
Client Sample Identification :					5 Pop					
Metals		RL	Unit	Criteria						
				A	B	C				
Metals Scan (Water, ICP/MS)										
Aluminum	0.01	mg/L	0.1			0.02				
Antimony	0.0005	mg/L	0.006			<0.0005				
Arsenic	0.001	mg/L	0.01			<0.001				
Barium	0.001	mg/L	1			0.286				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.05				
Cadmium	0.0001	mg/L	0.005			<0.0001				
Chromium	0.001	mg/L	0.05			0.002				
Cobalt	0.0002	mg/L				<0.0002				
Copper	0.001	mg/L	1			0.112				
Iron	0.03	mg/L	0.3			0.56				
Lead	0.001	mg/L	0.01			0.003				
Manganese	0.01	mg/L	0.05			<0.01				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				0.0002				
Strontium	0.001	mg/L				2.82				
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			0.04				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				127				
Magnesium	1	mg/L				23				
Potassium	1	mg/L				3				
Sodium	1	mg/L	200			94				

			Eurofins Sample No : 9930809						
			Matrix : Groundwater						
			Sampling Date : 2026-07-29						
			Client Sample Identification : 5 Pop						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

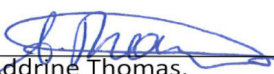
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

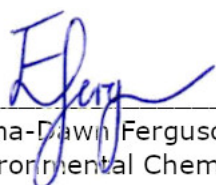
Reception Date: 2026-07-29

			Eurofins Sample No : 9930809						
			Matrix : Groundwater						
			Sampling Date : 2026-07-29						
			Client Sample Identification : 5 Pop						
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			1.49			
Nitrite (as Nitrogen)	0.1	mg/L	1.0			<0.5			
Total Kjeldahl Nitrogen	0.1	mg/L				0.411			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-29

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	99	95-105			2	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-31	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	100	80-120	101	80-120	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	98	80-120	103	80-120	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	95	78-116			2	0-40
Associated Samples : 9930809								Prep Date: 2026-08-05 Analysis Date: 2026-08-05	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	95	78-116			-	0-40
Associated Samples : 9930809								Prep Date: 2026-08-05 Analysis Date: 2026-08-05	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	98	98-102			0	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-31	
DOC (Water, IR)									
Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.									
Dissolved Organic Carbon	mg/L	0.5	<0.5	99	88-112	88	85-115	7	0-15
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-31	
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 : 9930809								Prep Date: 2026-07-29 Analysis Date: 2026-07-30	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	101	90-110			2	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-31	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-29

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	102	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	84	80-120	80	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	101	80-120	101	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	94	70-130	-	0-20
Beryllium	mg/L	0.0005	<0.0005	106	80-120	103	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	100	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	99	80-120	98	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	100	80-120	99	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	103	80-120	102	70-130	-	0-20
Copper	mg/L	0.001	<0.001	100	80-120	101	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	94	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	100	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	100	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	99	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	90	80-120	90	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	100	80-120	100	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	101	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	80	80-120	93	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	97	70-130	-	0-20
Thallium	mg/L	0.0001	<0.0001	100	80-120	100	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	97	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	100	80-120	100	70-130	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	106	70-130	0	0-20
Magnesium	mg/L	1	<1	99	70-130	109	70-130	0	0-20
Potassium	mg/L	1	<1	100	70-130	102	70-130	-	0-20
Sodium	mg/L	1	<1	100	70-130	105	70-130	0	0-20
Associated Samples : 9930809								Prep Date: 2026-08-04 Analysis Date: 2026-07-29	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	102	80-120	99	80-120	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
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	106	80-120	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	7.49	100	97-103			2	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-31	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-29

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	104	75-125	99	70-130	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-31 Analysis Date: 2026-07-31	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	99	90-110	97	80-120	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	61	48-131			-	0-20
Associated Samples : 9930809								Prep Date: 2026-08-04 Analysis Date: 2026-08-04	
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	92	80-120			-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-30	
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 : 9930809								Prep Date: 2026-07-29 Analysis Date: 2026-07-30	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	91	70-130	101	70-130	-	0-20
Associated Samples : 9930809								Prep Date: 2026-07-30 Analysis Date: 2026-07-31	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	97	80-120			3	0-30
Associated Samples : 9930809								Prep Date: 2026-07-31 Analysis Date: 2026-07-31	

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

401 Magnetic Drive, Unit #1, North York, ON, M3J 3H9 - Telephone: 416-661-5287 • 380 Vansickle Road, Unit #630, St. Catharines, ON, L2S 0B5 - Telephone: 905-680-8887 • 608 Norris Court, Kingston, ON, K7P 2R9 - Telephone: 613-634-9307
OTT-P-SOP73462, Revis. 10 (formerly AF28DCOC) • Copies: White - Laboratory, Yellow - Sample

OFFICIAL CERTIFICATE OF ANALYSIS : 4758958
WORK REQUEST : 100449575
Report Date : 2026-07-16
Paterson Group

9 Auriga Dr
Nepean, Ontario
K2E 7T9
Attention : Erik Ardley

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66415

Temperature : 10 °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 :

9869323

Compliant
Certificate Comments :

9869323

N-NO2 and N-NO3 MRLs 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

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869323	6 Poplarwood	Colour (Apparent)	10	TCU	5		
Hardness (Water, Calculation Only)							
9869323	6 Poplarwood	Hardness as CaCO3 (Calculation)	477	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9869323	6 Poplarwood	Iron	0.48	mg/L	0.3		
TDS (Estimated)							
9869323	6 Poplarwood	TDS (Estimated)^	826	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869323						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			184			
Sulphate	1	mg/L	500			103			
			Eurofins Sample No : 9869323						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.01						
			Eurofins Sample No : 9869323						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			300			
Colour (Apparent)	2	TCU	5			10			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1270			
Dissolved Organic Carbon	0.5	mg/L	5			1.8			
Fluoride	0.1	mg/L	1.5			0.20			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			477			
pH @ 25°C	1		6.5-8.5			7.39			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			826			
Turbidity	0.1	NTU	5			1.2			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869323								
Matrix :					Groundwater								
Sampling Date :					2026-07-09								
Client Sample Identification :					6 Poplarwood								
Metals			RL	Unit	Criteria								
					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			0.244					
Beryllium			0.0005	mg/L				<0.0005					
Boron			0.01	mg/L	5			0.10					
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			<0.001					
Iron			0.03	mg/L	0.3			0.48					
Lead			0.001	mg/L	0.01			<0.001					
Manganese			0.01	mg/L	0.05			0.04					
Mercury			0.0001	mg/L	0.001			<0.0001					
Molybdenum			0.005	mg/L				<0.005					
Nickel			0.005	mg/L				<0.005					
Selenium			0.001	mg/L	0.05			<0.001					
Silver			0.0001	mg/L				<0.0001					
Strontium			0.001	mg/L				8.81					
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			<0.01					
Metals Scan (Water, ICP/OES)													
Calcium			1	mg/L				135					
Magnesium			1	mg/L				34					
Potassium			1	mg/L				4					
Sodium			1	mg/L	200			88					

			Eurofins Sample No : 9869323						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

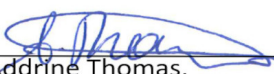
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

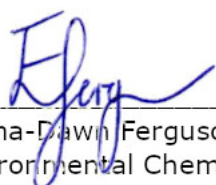
Reception Date: 2026-07-10

			Eurofins Sample No : 9869323						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6 Poplarwood						
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				0.177			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	104	80-120	108	80-120	1	0-20
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869323								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869323								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869323								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869323								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	106	80-120	101	80-120	-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	109	80-120	-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869323								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	110	90-110	106	80-120	2	0-20
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869323								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869323								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869323								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4758973
WORK REQUEST : 100449560
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66411

Temperature : 10 °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 :

9869232

Compliant
Certificate Comments :

9869232

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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9869232	7 Poplarwood	Hardness as CaCO3 (Calculation)	375	mg/L	80-100		
TDS (Estimated)							
9869232	7 Poplarwood	TDS (Estimated)^	640	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869232						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 7 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			110			
Sulphate	1	mg/L	500			62			
			Eurofins Sample No : 9869232						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 7 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						
			Eurofins Sample No : 9869232						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 7 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			307			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				985			
Dissolved Organic Carbon	0.5	mg/L	5			2.3			
Fluoride	0.1	mg/L	1.5			0.10			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			375			
pH @ 25°C	1		6.5-8.5			7.43			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			640			
Turbidity	0.1	NTU	5			0.4			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :						9869232				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						7 Poplarwood				
Metals	RL	Unit	Criteria							
			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			0.244				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.06				
Cadmium	0.0001	mg/L	0.005			<0.0001				
Chromium	0.001	mg/L	0.05			<0.001				
Cobalt	0.0002	mg/L				0.0005				
Copper	0.001	mg/L	1			0.012				
Iron	0.03	mg/L	0.3			0.04				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			<0.01				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				0.014				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				6.17				
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			0.05				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				114				
Magnesium	1	mg/L				22				
Potassium	1	mg/L				3				
Sodium	1	mg/L	200			72				
Eurofins Sample No :						9869232				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						7 Poplarwood				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

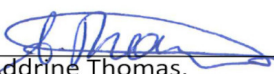
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

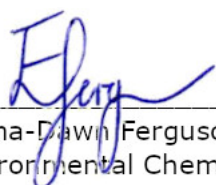
Reception Date: 2026-07-10

			Eurofins Sample No : 9869232						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 7 Poplarwood						
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				0.185			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869232								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120		
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869232								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869232								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869232								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869232								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869232								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869232								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869232								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869232								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869232								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869232								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																																																																																																																																																																																																																																																																												
Company: Paterson Group				Company:																																																																																																																																																																																																																																																																												
Contact: Zavian Buchanan				Contact:										Email: #1:																																																																																																																																																																																																																																																																		
Address: 9 Auriga Drive, Ottawa, ON				Address:										Email: #2:																																																																																																																																																																																																																																																																		
Telephone: 6132237368		Cell:		Telephone:										PO #: 66411																																																																																																																																																																																																																																																																		
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED ☐ Sanitary Sewer, City: <u>Ottawa</u> ☐ Storm Sewer, City: <u>Ottawa</u> ☒ 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 ☐ ☐ O. Reg. 406 Excess Solis Table # _____ Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri / All Other Category: Surface / Subsurface																																																																																																																																																																																																																																																																												
Email: #2: mlaflamme@patersongroup.ca																																																																																																																																																																																																																																																																																
Project: PH5222		Quote #:																																																																																																																																																																																																																																																																														
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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.																																																																																																																																																																																																																																																																																
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).																																																																																																																																																																																																																																																																																
Sample Details																																																																																																																																																																																																																																																																																
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. <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th rowspan="2">Sample ID</th> <th rowspan="2">Date/Time Collected</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2"># of Containers</th> <th colspan="12">O.Reg.153/04 parameters</th> <th rowspan="2">See attached paper</th> <th rowspan="2">N-NH3</th> <th rowspan="2">N-NO2</th> <th rowspan="2">N-NO3</th> <th rowspan="2">TKN</th> <th rowspan="2">Organic Nitrogen</th> <th rowspan="2">Subdivision Supply Package (Bacti 2 only)</th> <th rowspan="2">Trace Metals</th> <th rowspan="2">Manganese</th> <th rowspan="2">RN# (Lab Use Only)</th> </tr> <tr> <th>PH/EC - F4</th> <th>BTEX</th> <th>VOCs</th> <th>PAHs</th> <th>PCBs</th> <th>Metals + Inorganics</th> <th>Metals only</th> </tr> </thead> <tbody> <tr> <td>7 Poplarwood</td> <td>July 9, 2026</td> <td>GW</td> <td>6</td> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☒</td><td>☒</td><td>☐</td> <td rowspan="10" style="vertical-align: middle; text-align: center; font-size: 24px;">9869232</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> </tbody> </table>																		Sample ID	Date/Time Collected	Sample Matrix	# of Containers	O.Reg.153/04 parameters												See attached paper	N-NH3	N-NO2	N-NO3	TKN	Organic Nitrogen	Subdivision Supply Package (Bacti 2 only)	Trace Metals	Manganese	RN# (Lab Use Only)	PH/EC - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganics	Metals only	7 Poplarwood	July 9, 2026	GW	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☐	9869232					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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OFFICIAL CERTIFICATE OF ANALYSIS : 4758977
WORK REQUEST : 100449576
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66416

Temperature : 10 °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 :

9869325

Compliant
Certificate Comments :

9869325

N-NO2 and N-NO3 MRLs 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

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869325	8 Poplarwood	Colour (Apparent)	29	TCU	5		
Hardness (Water, Calculation Only)							
9869325	8 Poplarwood	Hardness as CaCO3 (Calculation)	487	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9869325	8 Poplarwood	Iron	0.54	mg/L	0.3		
9869325	8 Poplarwood	Manganese	0.21	mg/L	0.05		
TDS (Estimated)							
9869325	8 Poplarwood	TDS (Estimated)^	884	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869325						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 8 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			210			
Sulphate	1	mg/L	500			82			
			Eurofins Sample No : 9869325						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 8 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						
			Eurofins Sample No : 9869325						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 8 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			339			
Colour (Apparent)	2	TCU	5			29			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1360			
Dissolved Organic Carbon	0.5	mg/L	5			3.8			
Fluoride	0.1	mg/L	1.5			<0.10			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			487			
pH @ 25°C	1		6.5-8.5			7.31			
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			884			
Turbidity	0.1	NTU	5			2.0			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :						9869325				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						8 Poplarwood				
Metals	RL	Unit	Criteria							
			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			0.453				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.05				
Cadmium	0.0001	mg/L	0.005			<0.0001				
Chromium	0.001	mg/L	0.05			<0.001				
Cobalt	0.0002	mg/L				0.0006				
Copper	0.001	mg/L	1			0.005				
Iron	0.03	mg/L	0.3			0.54				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.21				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				2.91				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				157				
Magnesium	1	mg/L				23				
Potassium	1	mg/L				2				
Sodium	1	mg/L	200			114				
Eurofins Sample No :						9869325				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						8 Poplarwood				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

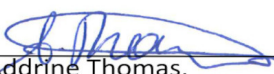
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

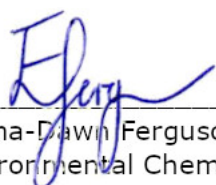
Reception Date: 2026-07-10

			Eurofins Sample No : 9869325						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 8 Poplarwood						
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				0.289			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	104	80-120	108	80-120	1	0-20
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869325								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869325								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869325								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869325								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	106	80-120	101	80-120	-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	109	80-120	-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869325								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	110	90-110	106	80-120	2	0-20
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869325								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869325								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869325								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

STANDARD CHAIN-OF-CUSTODY

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4755868
WORK REQUEST : 100449071
Report Date : 2026-07-14
Paterson Group

9 Auriga Drive
Ottawa, Ontario
Attention : Zavian Buchanan

Reception Date : 2026-07-08
Project : PH5222
Sampler : NA
PO Number : 66384
Temperature : 6 °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 :

9863166

Compliant
Certificate Comments :

9863166

N-NO2 MRL increased due to matrix interference. Fe spike recovery not available due to high native analyte concentration of the spiked sample.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-08

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9863166	9POP	Hardness as CaCO3 (Calculation)	402	mg/L	80-100		
TDS (Estimated)							
9863166	9POP	TDS (Estimated)^	663	mg/L	500		
Total Coliforms (DC Plate)							
9863166	9POP	Total Coliforms (DC)	31	CFU/100mL	0		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-08

			Eurofins Sample No : 9863166						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 9POP						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			88.2			
Sulphate	1	mg/L	500			61			
			Eurofins Sample No : 9863166						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 9POP						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.03						
			Eurofins Sample No : 9863166						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 9POP						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			359			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1020			
Dissolved Organic Carbon	0.5	mg/L	5			2.0			
Fluoride	0.1	mg/L	1.5			0.11			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			402			
pH @ 25°C	1		6.5-8.5			7.88			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			663			
Turbidity	0.1	NTU	5			0.1			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-08

Eurofins Sample No :						9863166				
Matrix :						Groundwater				
Sampling Date :						2026-07-08				
Client Sample Identification :						9POP				
Metals	RL	Unit	Criteria							
			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			0.194				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.12				
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			0.009				
Iron	0.03	mg/L	0.3			<0.03				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			<0.01				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				4.85				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				118				
Magnesium	1	mg/L				26				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			78				

Eurofins Sample No :						9863166				
Matrix :						Groundwater				
Sampling Date :						2026-07-08				
Client Sample Identification :						9POP				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			31				

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-08

			Eurofins Sample No : 9863166						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 9POP						
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			3.79			
Nitrite (as Nitrogen)	0.1	mg/L	1.0			<0.5			
Total Kjeldahl Nitrogen	0.1	mg/L				<0.100			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	96	80-120	104	80-120	-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120	2	0-20
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			2	0-40
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
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	96	85-115	7	0-15
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9863166								Prep Date: 2026-07-09 Analysis Date: 2026-07-10	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

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	96	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	95	80-120	88	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	105	70-130	1	0-20
Barium	mg/L	0.001	<0.001	110	80-120	102	70-130	1	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	102	70-130	-	0-20
Boron	mg/L	0.01	<0.01	110	80-120	102	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	98	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	103	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	102	80-120	100	70-130	-	0-20
Copper	mg/L	0.001	<0.001	100	80-120	99	70-130	0	0-20
Iron	mg/L	0.03	<0.03	100	80-120			2	0-20
Lead	mg/L	0.001	<0.001	100	80-120	99	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	98	70-130	0	0-20
Mercury	mg/L	0.0001	<0.0001	95	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	100	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	99	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	102	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	101	80-120	94	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	96	70-130	0	0-20
Thallium	mg/L	0.0001	<0.0001	104	80-120	99	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	102	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	104	70-130	0	0-20
Associated Samples : 9863166								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	103	86-115	101	70-130	1	0-20
Magnesium	mg/L	1	<1	100	91-109	90	70-130	2	0-20
Potassium	mg/L	1	<1	105	87-113	101	70-130	-	0-20
Sodium	mg/L	1	<1	104	85-115	87	70-130	2	0-20
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-09	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9863166								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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					3	0-30
Associated Samples : 9863166								Prep Date: 2026-07-09 Analysis Date: 2026-07-10	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	91	70-130	112	70-130	-	0-20
Associated Samples : 9863166								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9863166								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

STANDARD CHAIN-OF-CUSTODY

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4755872
WORK REQUEST : 100449072
Report Date : 2026-07-14
Paterson Group

9 Auriga Drive
Ottawa, Ontario
Attention : Zavian Buchanan

Reception Date : 2026-07-08
Project : PH5222
Sampler : NA
PO Number : 66385
Temperature : 6 °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 :

9863173

Compliant
Certificate Comments :

9863173

N-NO2 and N-NO3 MRLs increased due to matrix interference. Sr analyzed on July 13, 2026. Fe spike recovery not available due to high native analyte concentration of the spiked sample.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PH5222

Reception Date : 2026-07-08

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9863173	10POP	Colour (Apparent)	13	TCU	5		
Hardness (Water, Calculation Only)							
9863173	10POP	Hardness as CaCO3 (Calculation)	490	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9863173	10POP	Iron	0.36	mg/L	0.3		
TDS (Estimated)							
9863173	10POP	TDS (Estimated)^	819	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-08

			Eurofins Sample No : 9863173						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 10POP						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			175			
Sulphate	1	mg/L	500			93			
			Eurofins Sample No : 9863173						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 10POP						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.01						
			Eurofins Sample No : 9863173						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 10POP						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			328			
Colour (Apparent)	2	TCU	5			13			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1260			
Dissolved Organic Carbon	0.5	mg/L	5			1.8			
Fluoride	0.1	mg/L	1.5			0.19			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			490			
pH @ 25°C	1		6.5-8.5			7.38			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ₂ -)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			819			
Turbidity	0.1	NTU	5			2.4			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-08

Eurofins Sample No :					9863173					
Matrix :					Groundwater					
Sampling Date :					2026-07-08					
Client Sample Identification :					10POP					
Metals		RL	Unit	Criteria						
				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			0.140				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.09				
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			0.005				
Iron	0.03	mg/L	0.3			0.36				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.03				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				10.8				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				137				
Magnesium	1	mg/L				36				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			84				

			Eurofins Sample No : 9863173						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 10POP						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

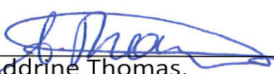
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

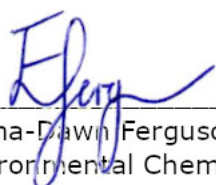
Reception Date: 2026-07-08

			Eurofins Sample No : 9863173						
			Matrix : Groundwater						
			Sampling Date : 2026-07-08						
			Client Sample Identification : 10POP						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.051			
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				<0.100			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	96	80-120	104	80-120	-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120	2	0-20
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
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	96	85-115	7	0-15
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9863173								Prep Date: 2026-07-09 Analysis Date: 2026-07-10	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

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	96	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	95	80-120	88	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	105	70-130	1	0-20
Barium	mg/L	0.001	<0.001	110	80-120	102	70-130	1	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	102	70-130	-	0-20
Boron	mg/L	0.01	<0.01	110	80-120	102	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	98	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	103	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	102	80-120	100	70-130	-	0-20
Copper	mg/L	0.001	<0.001	100	80-120	99	70-130	0	0-20
Iron	mg/L	0.03	<0.03	100	80-120			2	0-20
Lead	mg/L	0.001	<0.001	100	80-120	99	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	98	70-130	0	0-20
Mercury	mg/L	0.0001	<0.0001	95	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	100	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	99	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	102	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	101	80-120	94	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	96	70-130	0	0-20
Thallium	mg/L	0.0001	<0.0001	104	80-120	99	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	102	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	104	70-130	0	0-20
Associated Samples : 9863173								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	103	86-115	101	70-130	1	0-20
Magnesium	mg/L	1	<1	100	91-109	90	70-130	2	0-20
Potassium	mg/L	1	<1	105	87-113	101	70-130	-	0-20
Sodium	mg/L	1	<1	104	85-115	87	70-130	2	0-20
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-09	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9863173								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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					3	0-30
Associated Samples : 9863173								Prep Date: 2026-07-09 Analysis Date: 2026-07-10	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	91	70-130	112	70-130	-	0-20
Associated Samples : 9863173								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9863173								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

STANDARD CHAIN-OF-CUSTODY

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4758529
WORK REQUEST : 100449554
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10
Project : PH5222
Sampler : NA
PO Number : 66408
Temperature : 10 °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 :

9869191

Compliant
Certificate Comments :

9869191

N-NO2 and N-NO3 MRLs 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

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869191	11 Poplarwood	Colour (Apparent)	16	TCU	5		
Hardness (Water, Calculation Only)							
9869191	11 Poplarwood	Hardness as CaCO3 (Calculation)	152	mg/L	80-100		
Metals Scan (Water, ICP/OES)							
9869191	11 Poplarwood	Sodium	265	mg/L	200		
TDS (Estimated)							
9869191	11 Poplarwood	TDS (Estimated)^	904	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869191						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 11 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			179			
Sulphate	1	mg/L	500			120			

			Eurofins Sample No : 9869191						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 11 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						

			Eurofins Sample No : 9869191						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 11 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			341			
Colour (Apparent)	2	TCU	5			16			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1390			
Dissolved Organic Carbon	0.5	mg/L	5			1.4			
Fluoride	0.1	mg/L	1.5			1.10			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			152			
pH @ 25°C	1		6.5-8.5			7.60			
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			904			
Turbidity	0.1	NTU	5			0.4			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869191								
Matrix :					Groundwater								
Sampling Date :					2026-07-09								
Client Sample Identification :					11 Poplarwood								
Metals		RL	Unit	Criteria									
				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				0.026						
Beryllium	0.0005	mg/L					<0.0005						
Boron	0.01	mg/L	5				0.99						
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				0.003						
Iron	0.03	mg/L	0.3				0.03						
Lead	0.001	mg/L	0.01				<0.001						
Manganese	0.01	mg/L	0.05				<0.01						
Mercury	0.0001	mg/L	0.001				<0.0001						
Molybdenum	0.005	mg/L					<0.005						
Nickel	0.005	mg/L					<0.005						
Selenium	0.001	mg/L	0.05				<0.001						
Silver	0.0001	mg/L					<0.0001						
Strontium	0.001	mg/L					7.19						
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				<0.01						
Metals Scan (Water, ICP/OES)													
Calcium	1	mg/L					36						
Magnesium	1	mg/L					15						
Potassium	1	mg/L					5						
Sodium	1	mg/L	200				265						

			Eurofins Sample No : 9869191						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 11						
			Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

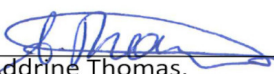
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

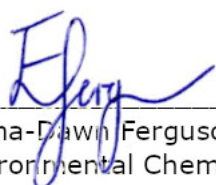
Reception Date: 2026-07-10

			Eurofins Sample No :			9869191				
			Matrix :			Groundwater				
			Sampling Date :			2026-07-09				
			Client Sample Identification :			11				
						Poplarwood				
Nutrients	RL	Unit	Criteria							
			A	B	C					
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.165				
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				0.211				

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869191								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120	2	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869191								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869191								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	7	0-15
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869191								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869191								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869191								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9869191								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9869191								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869191								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869191								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869191								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

OFFICIAL CERTIFICATE OF ANALYSIS : 4758530
WORK REQUEST : 100449557
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66409

Temperature : 10 °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 :

9869221

Compliant
Certificate Comments :

9869221

N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9869221	13 Poplarwood	Hardness as CaCO3 (Calculation)	106	mg/L	80-100		
Metals Scan (Water, ICP/OES)							
9869221	13 Poplarwood	Sodium	291	mg/L	200		
TDS (Estimated)							
9869221	13 Poplarwood	TDS (Estimated)^	923	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869221						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 13 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			184			
Sulphate	1	mg/L	500			125			

			Eurofins Sample No : 9869221						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 13 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						

			Eurofins Sample No : 9869221						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 13 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			340			
Colour (Apparent)	2	TCU	5			2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1420			
Dissolved Organic Carbon	0.5	mg/L	5			1.5			
Fluoride	0.1	mg/L	1.5			1.39			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			106			
pH @ 25°C	1		6.5-8.5			7.91			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ²⁻)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			923			
Turbidity	0.1	NTU	5			0.4			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869221								
Matrix :					Groundwater								
Sampling Date :					2026-07-09								
Client Sample Identification :					13 Poplarwood								
Metals		RL	Unit	Criteria									
				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			0.015						
Beryllium		0.0005	mg/L				<0.0005						
Boron		0.01	mg/L	5			1.18						
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			0.001						
Iron		0.03	mg/L	0.3			<0.03						
Lead		0.001	mg/L	0.01			<0.001						
Manganese		0.01	mg/L	0.05			<0.01						
Mercury		0.0001	mg/L	0.001			<0.0001						
Molybdenum		0.005	mg/L				<0.005						
Nickel		0.005	mg/L				<0.005						
Selenium		0.001	mg/L	0.05			<0.001						
Silver		0.0001	mg/L				<0.0001						
Strontium		0.001	mg/L				4.54						
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			<0.01						
Metals Scan (Water, ICP/OES)													
Calcium		1	mg/L				26						
Magnesium		1	mg/L				10						
Potassium		1	mg/L				4						
Sodium		1	mg/L	200			291						

			Eurofins Sample No : 9869221						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 13 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

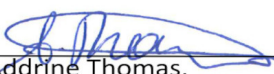
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

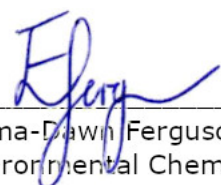
Reception Date: 2026-07-10

			Eurofins Sample No : 9869221						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 13						
			Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.151			
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				0.216			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869221								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120		
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869221								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869221								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	7	0-15
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869221								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869221								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869221								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9869221								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9869221								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869221								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869221								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869221								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

OFFICIAL CERTIFICATE OF ANALYSIS : 4758978
WORK REQUEST : 100449577
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66417

Temperature : 10 °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 :

9869341

Compliant
Certificate Comments :

9869341

N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Fluoride (Water, Auto/ISE)							
9869341	14 Poplarwood	Fluoride	2.49	mg/L	1.5		
Metals Scan (Water, ICP/OES)							
9869341	14 Poplarwood	Sodium	274	mg/L	200		
TDS (Estimated)							
9869341	14 Poplarwood	TDS (Estimated)^	884	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869341						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 14 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			149			
Sulphate	1	mg/L	500			169			

			Eurofins Sample No : 9869341						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 14 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.00						

			Eurofins Sample No : 9869341						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 14 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			311			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1360			
Dissolved Organic Carbon	0.5	mg/L	5			1.0			
Fluoride	0.1	mg/L	1.5			2.49			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			99			
pH @ 25°C	1		6.5-8.5			7.90			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ²⁻)	0.01	mg/L	0.05			0.05			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			884			
Turbidity	0.1	NTU	5			0.3			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869341								
Matrix :					Groundwater								
Sampling Date :					2026-07-09								
Client Sample Identification :					14 Poplarwood								
Metals		RL	Unit	Criteria									
				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			0.016						
Beryllium		0.0005	mg/L				<0.0005						
Boron		0.01	mg/L	5			1.06						
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			<0.001						
Iron		0.03	mg/L	0.3			0.04						
Lead		0.001	mg/L	0.01			<0.001						
Manganese		0.01	mg/L	0.05			<0.01						
Mercury		0.0001	mg/L	0.001			<0.0001						
Molybdenum		0.005	mg/L				<0.005						
Nickel		0.005	mg/L				<0.005						
Selenium		0.001	mg/L	0.05			<0.001						
Silver		0.0001	mg/L				<0.0001						
Strontium		0.001	mg/L				7.00						
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			<0.01						
Metals Scan (Water, ICP/OES)													
Calcium		1	mg/L				20						
Magnesium		1	mg/L				12						
Potassium		1	mg/L				5						
Sodium		1	mg/L	200			274						

			Eurofins Sample No : 9869341						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 14 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

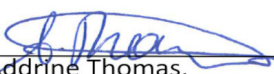
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

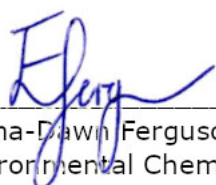
Reception Date: 2026-07-10

			Eurofins Sample No : 9869341						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 14 Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.227			
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				0.447			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	104	80-120	108	80-120	1	0-20
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869341								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869341								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869341								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869341								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	106	80-120	101	80-120	-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	109	80-120	-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869341								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	110	90-110	106	80-120	2	0-20
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869341								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869341								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869341								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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



STANDARD CHAIN-OF-CUSTODY

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																																																																																																																																																																																					
Company: Paterson Group				Company:																																																																																																																																																																																					
Contact: Zavian Buchanan				Contact:										Email: #1:																																																																																																																																																																											
Address: 9 Auriga Drive, Ottawa, ON				Address:										Email: #2:																																																																																																																																																																											
Telephone: 6132237368		Cell:		Telephone:										PO #: 66417																																																																																																																																																																											
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED ☐ O. Reg. 153/04 Table # _____ Coarse / Fine, Surface / subsurface 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 ☐ ☐ O. Reg. 406 Excess Solids Table # _____ Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri / All Other Category: Surface / Subsurface																																																																																																																																																																																					
Email: #2: mlaflamme@patersongroup.ca																																																																																																																																																																																									
Project: PH5222		Quote #:		☐ Sanitary Sewer, City: Ottawa ☐ Storm Sewer, City: Ottawa ☒ ODWSOG (Use DW COC if samples are for human consumption) ☐ PWQO ☐ O. Reg. 347 (TCPLP) ☐ Other: _____																																																																																																																																																																																					
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. 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 --> ☐																																																																																																																																																																																					
				<table border="1"><thead><tr><th rowspan="2">Sample Matrix</th><th rowspan="2"># of Containers</th><th colspan="8">O. Reg. 153/04 parameters</th><th rowspan="2">See attached paper</th><th rowspan="2">N-NH3</th><th rowspan="2">N-NO2</th><th rowspan="2">N-NO3</th><th rowspan="2">TKN</th><th rowspan="2">Organic Nitrogen</th><th rowspan="2">Subdivision Supply Package (Bacti 2 only)</th><th rowspan="2">Trace Metals</th><th rowspan="2">Manganese</th></tr><tr><th>PHC EL - F4</th><th>BTEX</th><th>VOCs</th><th>PAHs</th><th>PCBs</th><th>Metals + Inorganics</th><th>Metals only</th></tr></thead><tbody><tr><td>14 Poplarwood</td><td>July 9, 2026</td><td>GW</td><td>6</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☒</td><td>☒</td><td>☐</td><td rowspan="8">RNN (Lab Use Only) 9869341</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td></td><td></td><td></td><td></td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></tbody></table>														Sample Matrix	# of Containers	O. Reg. 153/04 parameters								See attached paper	N-NH3	N-NO2	N-NO3	TKN	Organic Nitrogen	Subdivision Supply Package (Bacti 2 only)	Trace Metals	Manganese	PHC EL - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganics	Metals only	14 Poplarwood	July 9, 2026	GW	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☐	RNN (Lab Use Only) 9869341					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Sample Matrix	# of Containers	O. Reg. 153/04 parameters								See attached paper	N-NH3	N-NO2	N-NO3	TKN	Organic Nitrogen	Subdivision Supply Package (Bacti 2 only)	Trace Metals			Manganese																																																																																																																																																																					
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PRINT NAME		LOCATION		SIGN		DATE/TIME		TEMP (°C)		100449577 Printed On : 2026-07-10 11:06:10																																																																																																																																																																															
Sampled By: Max Rubarth		Ottawa				July 9, 2026																																																																																																																																																																																			
Relinquished By: Max Rubarth		Ottawa				July 9, 2026																																																																																																																																																																																			
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COMMENTS:										CUSTODY SEAL: ☐ YES ☐ NO Ice packs submit ☐ Yes ☐ No																																																																																																																																																																															

OFFICIAL CERTIFICATE OF ANALYSIS : 4758527
WORK REQUEST : 100449552
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66406

Temperature : 10 °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 :

9869172

Compliant
Certificate Comments :

9869172

N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Metals Scan (Water, ICP/OES)							
9869172	15 Poplarwood	Sodium	320	mg/L	200		
Sulphide (Water, Colorimetry)							
9869172	15 Poplarwood	Sulphide (S2-)	0.17	mg/L	0.05		
TDS (Estimated)							
9869172	15 Poplarwood	TDS (Estimated)^	1010	mg/L	500		
Total Coliforms (DC Plate)							
9869172	15 Poplarwood	Total Coliforms (DC)	4	CFU/100mL	0		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 15 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			162			
Sulphate	1	mg/L	500			212			

			Eurofins Sample No : 9869172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 15 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.00						

			Eurofins Sample No : 9869172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 15 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			342			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1550			
Dissolved Organic Carbon	0.5	mg/L	5			1.2			
Fluoride	0.1	mg/L	1.5			1.47			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			89			
pH @ 25°C	1		6.5-8.5			7.86			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S2-)	0.01	mg/L	0.05			0.17			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			1010			
Turbidity	0.1	NTU	5			0.9			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869172					
Matrix :					Groundwater					
Sampling Date :					2026-07-09					
Client Sample Identification :					15 Poplarwood					
Metals		RL	Unit	Criteria						
				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			0.010				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			1.34				
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			<0.001				
Iron	0.03	mg/L	0.3			0.05				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			<0.01				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				3.79				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				21				
Magnesium	1	mg/L				9				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			320				

			Eurofins Sample No : 9869172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 15 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			4			

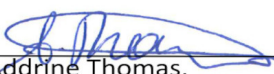
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

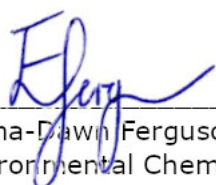
Reception Date: 2026-07-10

			Eurofins Sample No : 9869172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 15						
			Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.239			
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				0.285			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120	2	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869172								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869172								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	7	0-15
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869172								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	103	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	102	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	97	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	98	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	97	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	97	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	90	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	91	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	92	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	85	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	93	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	93	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	93	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	98	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	94	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	85	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	84	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	98	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	90	70-130	-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869172								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869172								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869172								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869172								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																		
Company: Paterson Group				Company:								Email: #1:										
Contact: Zavian Buchanan				Contact:								Email: #2:										
Address: 9 Auriga Drive, Ottawa, ON				Address:								Email: #2:										
Telephone: 6132237368		Cell:		Telephone:								PD #: 66406										
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED ☐ O. Reg. 153/04 Table # _____ Coarse / Fine, Surface, subsurface Type: Com-Ind / Res-Park / Agri / GW / All Other / Sediment 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 ☐ ☐ O. Reg 406 Excess Soils Table # _____ Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri/All Other Category: Surface /Subsurface																		
Email: #2: mlaflamme@patersongroup.ca																						
Project: PH5222		Quote #:																				
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.																						
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 FL - FA	BTEX	VOCs	PAHs	PCBs	Metals + Inorganics	Metals only	See attached paper	N-NH3	N-NO2	N-NO3	TKN	Organic Nitrogen	Subdivision Supply Package (Basis 2 only)	Trace Metals	Manganese	RN# (Lab Use Only)
15 Poplarwood		July 9, 2026		GW	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☐	
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						☐	☐	☐														

OFFICIAL CERTIFICATE OF ANALYSIS : 4758974
WORK REQUEST : 100449562
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66412

Temperature : 10 °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 :

9869244

Compliant
Certificate Comments :

9869244

N-NO2 and N-NO3 MRLs 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9869244	16 Poplarwood	Hardness as CaCO3 (Calculation)	160	mg/L	80-100		
Metals Scan (Water, ICP/OES)							
9869244	16 Poplarwood	Sodium	257	mg/L	200		
TDS (Estimated)							
9869244	16 Poplarwood	TDS (Estimated)^	891	ma/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869244						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 16 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			183			
Sulphate	1	mg/L	500			122			

			Eurofins Sample No : 9869244						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 16 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						

			Eurofins Sample No : 9869244						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 16 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			329			
Colour (Apparent)	2	TCU	5			3			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1370			
Dissolved Organic Carbon	0.5	mg/L	5			1.3			
Fluoride	0.1	mg/L	1.5			1.01			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			160			
pH @ 25°C	1		6.5-8.5			7.71			
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			891			
Turbidity	0.1	NTU	5			0.9			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869244								
Matrix :					Groundwater								
Sampling Date :					2026-07-09								
Client Sample Identification :					16 Poplarwood								
Metals		RL	Unit	Criteria									
				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			0.031						
Beryllium		0.0005	mg/L				<0.0005						
Boron		0.01	mg/L	5			0.96						
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			0.005						
Iron		0.03	mg/L	0.3			0.10						
Lead		0.001	mg/L	0.01			<0.001						
Manganese		0.01	mg/L	0.05			0.01						
Mercury		0.0001	mg/L	0.001			<0.0001						
Molybdenum		0.005	mg/L				<0.005						
Nickel		0.005	mg/L				<0.005						
Selenium		0.001	mg/L	0.05			<0.001						
Silver		0.0001	mg/L				<0.0001						
Strontium		0.001	mg/L				8.86						
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			<0.01						
Metals Scan (Water, ICP/OES)													
Calcium		1	mg/L				36						
Magnesium		1	mg/L				17						
Potassium		1	mg/L				6						
Sodium		1	mg/L	200			257						

			Eurofins Sample No : 9869244						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 16						
			Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

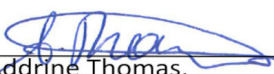
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

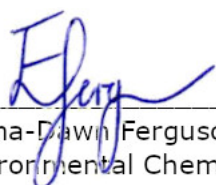
Reception Date: 2026-07-10

			Eurofins Sample No :			9869244				
			Matrix :			Groundwater				
			Sampling Date :			2026-07-09				
			Client Sample Identification :			16				
						Poplarwood				
Nutrients	RL	Unit	Criteria							
			A	B	C					
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.219				
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				0.390				

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869244								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120		
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869244								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869244								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869244								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869244								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869244								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869244								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869244								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869244								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869244								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869244								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4758531
WORK REQUEST : 100449558
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66410

Temperature : 10 °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 :

9869223

Compliant
Certificate Comments :

9869223

N-NO2 MRL increased due to matrix interference. Sr analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9869223	17 Poplarwood	Hardness as CaCO3 (Calculation)	459	mg/L	80-100		
TDS (Estimated)							
9869223	17 Poplarwood	TDS (Estimated)^	852	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869223						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 17 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			174			
Sulphate	1	mg/L	500			80			

			Eurofins Sample No : 9869223						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 17 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.01						

			Eurofins Sample No : 9869223						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 17 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			374			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1310			
Dissolved Organic Carbon	0.5	mg/L	5			2.2			
Fluoride	0.1	mg/L	1.5			0.16			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			459			
pH @ 25°C	1		6.5-8.5			7.38			
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			852			
Turbidity	0.1	NTU	5			0.1			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869223					
Matrix :					Groundwater					
Sampling Date :					2026-07-09					
Client Sample Identification :					17 Poplarwood					
Metals	RL	Unit	Criteria							
			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			0.189				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.15				
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			<0.03				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			<0.01				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				15.4				
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			0.02				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				123				
Magnesium	1	mg/L				37				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			116				

			Eurofins Sample No : 9869223						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 17 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

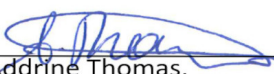
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

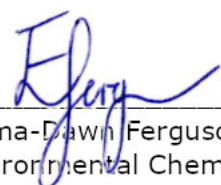
Reception Date: 2026-07-10

			Eurofins Sample No : 9869223						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 17						
			Poplarwood						
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			2.38			
Nitrite (as Nitrogen)	0.1	mg/L	1.0			<0.5			
Total Kjeldahl Nitrogen	0.1	mg/L				0.203			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869223								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120		
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869223								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869223								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869223								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869223								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869223								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9869223								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9869223								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869223								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869223								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869223								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4758975
WORK REQUEST : 100449571
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10
Project : PH5222
Sampler : NA
PO Number : 66413
Temperature : 10 °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 :

9869307

Compliant
Certificate Comments :

9869307

N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group
Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Fluoride (Water, Auto/ISE)							
9869307	18 Poplarwood	Fluoride	1.68	mg/L	1.5		
Metals Scan (Water, ICP/OES)							
9869307	18 Poplarwood	Sodium	293	mg/L	200		
TDS (Estimated)							
9869307	18 Poplarwood	TDS (Estimated)^	936	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869307						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 18 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			188			
Sulphate	1	mg/L	500			125			

			Eurofins Sample No : 9869307						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 18 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.00						

			Eurofins Sample No : 9869307						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 18 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			326			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1440			
Dissolved Organic Carbon	0.5	mg/L	5			1.3			
Fluoride	0.1	mg/L	1.5			1.68			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			80			
pH @ 25°C	1		6.5-8.5			7.86			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ²⁻)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			936			
Turbidity	0.1	NTU	5			0.4			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :					9869307									
Matrix :					Groundwater									
Sampling Date :					2026-07-09									
Client Sample Identification :					18 Poplarwood									
Metals		RL	Unit	Criteria										
				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				0.018							
Beryllium	0.0005	mg/L					<0.0005							
Boron	0.01	mg/L	5				1.12							
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				0.001							
Iron	0.03	mg/L	0.3				0.07							
Lead	0.001	mg/L	0.01				<0.001							
Manganese	0.01	mg/L	0.05				<0.01							
Mercury	0.0001	mg/L	0.001				<0.0001							
Molybdenum	0.005	mg/L					<0.005							
Nickel	0.005	mg/L					<0.005							
Selenium	0.001	mg/L	0.05				<0.001							
Silver	0.0001	mg/L					<0.0001							
Strontium	0.001	mg/L					6.96							
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				<0.01							
Metals Scan (Water, ICP/OES)														
Calcium	1	mg/L					17							
Magnesium	1	mg/L					9							
Potassium	1	mg/L					5							
Sodium	1	mg/L	200				293							

			Eurofins Sample No : 9869307						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 18 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

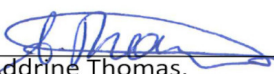
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

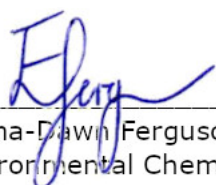
Reception Date: 2026-07-10

			Eurofins Sample No : 9869307						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 18						
			Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.212			
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				0.290			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	104	80-120	108	80-120	1	0-20
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869307								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869307								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869307								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869307								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	106	80-120	101	80-120	-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	109	80-120	-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869307								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	110	90-110	106	80-120	2	0-20
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869307								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869307								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869307								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

STANDARD CHAIN-OF-CUSTODY

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																																																																																																																																																																																																																																																																																																																																																																																					
Company: Paterson Group				Company:																																																																																																																																																																																																																																																																																																																																																																																					
Contact: Zavlan Buchanan				Contact:						Email: #1:																																																																																																																																																																																																																																																																																																																																																																															
Address: 9 Auriga Drive, Ottawa, ON				Address:						Email: #2:																																																																																																																																																																																																																																																																																																																																																																															
Telephone: 6132237368			Cell:	Telephone:						PO #: 66413																																																																																																																																																																																																																																																																																																																																																																															
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED ☐ 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 ☐ ☐ O. Reg 406 Excess Soils Table # _____ Full depth/Strat/Ceiling/msSPLP Leachate Type: Com-Ind / Res-Park / Agri/All Other Category: Surface /Subsurface																																																																																																																																																																																																																																																																																																																																																																																					
Email: #2: mlaflamme@patersongroup.ca																																																																																																																																																																																																																																																																																																																																																																																									
Project: PH5222			Quote #:																																																																																																																																																																																																																																																																																																																																																																																						
TURN-AROUND TIME (Business Days) ☐ 1 Day* (100%) ☐ 2 Day** (50%) ☐ 3-5 Days (25%) ☒ 5-7 Days (Standard)				☒ Sanitary Sewer, City: Ottawa ☐ Storm Sewer, City: Ottawa ☒ ODWSOG (Use DW COC if samples are for human consumption) ☐ PWQO ☐ O.Reg. 347 (TCLP) ☐ Other: _____																																																																																																																																																																																																																																																																																																																																																																																					
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.																																																																																																																																																																																																																																																																																																																																																																																									
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 --> ☐																																																																																																																																																																																																																																																																																																																																																																																					
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OFFICIAL CERTIFICATE OF ANALYSIS : 4766642
WORK REQUEST : 100451255
Report Date : 2026-07-22
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-16

Project : PH5222

Sampler : NA

PO Number : 66474

Temperature : 9 °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 :

9894202

Compliant
Certificate Comments :

9894202

N-NO3 and N-NO2 MRLs 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

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9894202	19 Poplarwood	Hardness as CaCO3 (Calculation)	259	mg/L	80-100		
Metals Scan (Water, ICP/OES)							
9894202	19 Poplarwood	Sodium	215	mg/L	200		
TDS (Estimated)							
9894202	19 Poplarwood	TDS (Estimated)^	904	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

			Eurofins Sample No : 9894202						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 19 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			155			
Fluoride	0.1	mg/L	1.5			0.42			
Sulphate	1	mg/L	500			92			

			Eurofins Sample No : 9894202						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 19 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						

			Eurofins Sample No : 9894202						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 19 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			403			
Colour (Apparent)	2	TCU	5			<2			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1390			
Dissolved Organic Carbon	0.5	mg/L	5			1.7			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			259			
pH @ 25°C	1		6.5-8.5			7.69			
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			904			
Turbidity	0.1	NTU	5			0.2			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

Eurofins Sample No :					9894202									
Matrix :					Groundwater									
Sampling Date :					2026-07-16									
Client Sample Identification :					19 Poplarwood									
Metals		RL	Unit	Criteria										
				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						0.025				
Beryllium		0.0005	mg/L							<0.0005				
Boron		0.01	mg/L	5						0.96				
Cadmium		0.0001	mg/L	0.005						<0.0001				
Chromium		0.001	mg/L	0.05						<0.001				
Cobalt		0.0002	mg/L							0.0005				
Copper		0.001	mg/L	1						0.006				
Iron		0.03	mg/L	0.3						<0.03				
Lead		0.001	mg/L	0.01						<0.001				
Manganese		0.01	mg/L	0.05						0.01				
Mercury		0.0001	mg/L	0.001						<0.0001				
Molybdenum		0.005	mg/L							<0.005				
Nickel		0.005	mg/L							<0.005				
Selenium		0.001	mg/L	0.05						<0.001				
Silver		0.0001	mg/L							<0.0001				
Strontium		0.001	mg/L							9.22				
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						0.01				
Metals Scan (Water, ICP/OES)														
Calcium		1	mg/L							64				
Magnesium		1	mg/L							24				
Potassium		1	mg/L							5				
Sodium		1	mg/L	200						215				

			Eurofins Sample No : 9894202						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 19 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

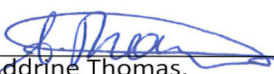
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

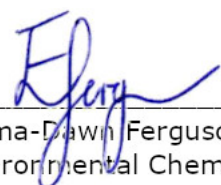
Reception Date: 2026-07-16

			Eurofins Sample No : 9894202						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 19						
			Poplarwood						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.157			
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				0.304			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	101	95-105			1	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	100	80-120	102	80-120	-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	92	80-120	103	80-120	1	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894202								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894202								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	102	98-102			0	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
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	101	85-115	1	0-15
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-22	
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 : 9894202								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
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 : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	96	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	81	80-120	78	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Beryllium	mg/L	0.0005	<0.0005	104	80-120	99	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	90	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	102	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	99	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	106	80-120	98	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	94	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	95	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	89	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	100	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	101	80-120	99	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	115	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Thallium	mg/L	0.0001	<0.0001	105	80-120	97	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	94	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	100	70-130	1	0-20
Magnesium	mg/L	1	<1	100	70-130	98	70-130	0	0-20
Potassium	mg/L	1	<1	100	70-130	98	70-130	-	0-20
Sodium	mg/L	1	<1	100	70-130	104	70-130	1	0-20
Associated Samples : 9894202								Prep Date: 2026-07-21 Analysis Date: 2026-07-16	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	97	80-120	95	80-120	-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	93	80-120	99	80-120	-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	7.39	100	97-103			0	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	104	80-120	88	70-130	-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	90	90-110	95	80-120	3	0-20
Associated Samples : 9894202								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-21 Analysis Date: 2026-07-21	
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	96	80-120			-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
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 : 9894202								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	103	70-130	98	70-130	-	0-20
Associated Samples : 9894202								Prep Date: 2026-07-17 Analysis Date: 2026-07-20	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	96	80-120			1	0-30
Associated Samples : 9894202								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	

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

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

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES ☒ NO ☐																															
Company: Paterson Group				Company:																															
Contact: Zavian Buchanan				Contact:						Email: #1:																									
Address: 9 Aurlga Drive, Ottawa, ON				Address:						Email: #2:																									
Telephone: 6132237368		Cell:		Telephone:						PO #: 66474																									
Email: #1: zbuchanan@patersongroup.ca				REGULATION/GUIDELINE REQUIRED Sanitary Sewer, City: <u>Ottawa</u> Storm Sewer, City: <u>Ottawa</u> ☒ 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 ☐ ☐ O. Reg 406 Excess Soils Table # _____ Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri/All Other Category: Surface /Subsurface																															
Email: #2: mlaflamme@patersongroup.ca		Quote #:																																	
Project: PH5222																																			
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%.																																			
TCPL, 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.																																			
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 --> ☐																															
Sample ID		Date/Time Collected		Sample Matrix		# of Containers		O.Reg.153/04 parameters								See attached paper		N-NH3		N-NO2		N-NO3		TKN		Organic Nitrogen		Subsiding Supply Package (Bact 2 only)		Trace Metals		Manganese		RN# (Lab Use Only)	
19 Poplarwood		July 16, 2026		GW		6		PHC FL - F4		BTX		VOCs		PAHs		PCBs		Metals + Inorganics		Metals only														9894202	

OFFICIAL CERTIFICATE OF ANALYSIS : 4766592
WORK REQUEST : 100451249
Report Date : 2026-07-22
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-16

Project : PH5222

Sampler : NA

PO Number : 66471

Temperature : 9 °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 :

9894172

Compliant
Certificate Comments :

9894172

N-NO3 and N-NO2 MRLs 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

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Hardness (Water, Calculation Only)							
9894172	21 Poplarwood	Hardness as CaCO3 (Calculation)	475	mg/L	80-100		
TDS (Estimated)							
9894172	21 Poplarwood	TDS (Estimated)^	806	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

			Eurofins Sample No : 9894172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 21 Poplarwood						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			126			
Fluoride	0.1	mg/L	1.5			0.16			
Sulphate	1	mg/L	500			91			

			Eurofins Sample No : 9894172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 21 Poplarwood						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.01						

			Eurofins Sample No : 9894172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 21 Poplarwood						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			393			
Colour (Apparent)	2	TCU	5			5			
Colour (True)	2	TCU				2			
Conductivity @ 25°C	5	µS/cm				1240			
Dissolved Organic Carbon	0.5	mg/L	5			2.4			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			475			
pH @ 25°C	1		6.5-8.5			7.41			
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			806			
Turbidity	0.1	NTU	5			0.4			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

Eurofins Sample No :					9894172								
Matrix :					Groundwater								
Sampling Date :					2026-07-16								
Client Sample Identification :					21 Poplarwood								
Metals		RL	Unit	Criteria									
				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				0.077						
Beryllium	0.0005	mg/L					<0.0005						
Boron	0.01	mg/L	5				0.15						
Cadmium	0.0001	mg/L	0.005				<0.0001						
Chromium	0.001	mg/L	0.05				<0.001						
Cobalt	0.0002	mg/L					0.0006						
Copper	0.001	mg/L	1				0.012						
Iron	0.03	mg/L	0.3				0.08						
Lead	0.001	mg/L	0.01				<0.001						
Manganese	0.01	mg/L	0.05				0.02						
Mercury	0.0001	mg/L	0.001				<0.0001						
Molybdenum	0.005	mg/L					<0.005						
Nickel	0.005	mg/L					<0.005						
Selenium	0.001	mg/L	0.05				<0.001						
Silver	0.0001	mg/L					<0.0001						
Strontium	0.001	mg/L					22.2						
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				0.03						
Metals Scan (Water, ICP/OES)													
Calcium	1	mg/L					126						
Magnesium	1	mg/L					39						
Potassium	1	mg/L					4						
Sodium	1	mg/L	200				87						

			Eurofins Sample No : 9894172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 21 Poplarwood						
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

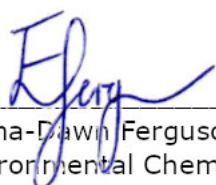
Reception Date: 2026-07-16

			Eurofins Sample No : 9894172						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 21						
			Poplarwood						
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				0.245			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

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	101	95-105			1	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	100	80-120	102	80-120	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	92	80-120	103	80-120	1	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894172								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894172								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	102	98-102			0	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
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	101	85-115	1	0-15
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-22	
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 : 9894172								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
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 : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	96	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	81	80-120	78	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Beryllium	mg/L	0.0005	<0.0005	104	80-120	99	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	90	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	102	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	99	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	106	80-120	98	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	94	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	95	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	89	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	100	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	101	80-120	99	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	115	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Thallium	mg/L	0.0001	<0.0001	105	80-120	97	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	94	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	101	86-115	100	70-130	0	0-20
Magnesium	mg/L	1	<1	100	91-109	98	70-130	0	0-20
Potassium	mg/L	1	<1	103	87-113	98	70-130	-	0-20
Sodium	mg/L	1	<1	102	85-115	104	70-130	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-21 Analysis Date: 2026-07-16	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	97	80-120	95	80-120	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	93	80-120	99	80-120	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	7.39	100	97-103			0	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	104	80-120	88	70-130	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	90	90-110	95	80-120	3	0-20
Associated Samples : 9894172								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-21 Analysis Date: 2026-07-21	
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	96	80-120			-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
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 : 9894172								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	103	70-130	98	70-130	-	0-20
Associated Samples : 9894172								Prep Date: 2026-07-17 Analysis Date: 2026-07-20	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	96	80-120			1	0-30
Associated Samples : 9894172								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	

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

OFFICIAL CERTIFICATE OF ANALYSIS : 4758979
WORK REQUEST : 100449579
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66403

Temperature : 10 °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 :

9869345

Compliant
Certificate Comments :

9869345

N-NO2 and N-NO3 MRLs 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869345	6015 Flewellyn	Colour (Apparent)	15	TCU	5		
Hardness (Water, Calculation Only)							
9869345	6015 Flewellyn	Hardness as CaCO3 (Calculation)	378	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9869345	6015 Flewellyn	Iron	0.52	mg/L	0.3		
9869345	6015 Flewellyn	Manganese	0.18	mg/L	0.05		
TDS (Estimated)							
9869345	6015 Flewellyn	TDS (Estimated)^	527	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869345						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6015 Flewellyn						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			54.1			
Sulphate	1	mg/L	500			41			

			Eurofins Sample No : 9869345						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6015 Flewellyn						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.00						

			Eurofins Sample No : 9869345						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6015 Flewellyn						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			342			
Colour (Apparent)	2	TCU	5			15			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				810			
Dissolved Organic Carbon	0.5	mg/L	5			4.1			
Fluoride	0.1	mg/L	1.5			0.13			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			378			
pH @ 25°C	1		6.5-8.5			7.35			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ²⁻)	0.01	mg/L	0.05			0.04			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			527			
Turbidity	0.1	NTU	5			1.1			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No : 9869345									
Matrix : Groundwater									
Sampling Date : 2026-07-09									
Client Sample Identification : 6015 Flewellyn									
Metals	RL	Unit	Criteria						
			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			0.215			
Beryllium	0.0005	mg/L				<0.0005			
Boron	0.01	mg/L	5			0.06			
Cadmium	0.0001	mg/L	0.005			<0.0001			
Chromium	0.001	mg/L	0.05			<0.001			
Cobalt	0.0002	mg/L				0.0029			
Copper	0.001	mg/L	1			<0.001			
Iron	0.03	mg/L	0.3			0.52			
Lead	0.001	mg/L	0.01			<0.001			
Manganese	0.01	mg/L	0.05			0.18			
Mercury	0.0001	mg/L	0.001			<0.0001			
Molybdenum	0.005	mg/L				<0.005			
Nickel	0.005	mg/L				<0.005			
Selenium	0.001	mg/L	0.05			<0.001			
Silver	0.0001	mg/L				<0.0001			
Strontium	0.001	mg/L				3.25			
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			0.03			
Metals Scan (Water, ICP/OES)									
Calcium	1	mg/L				112			
Magnesium	1	mg/L				24			
Potassium	1	mg/L				1			
Sodium	1	mg/L	200			38			

Eurofins Sample No : 9869345									
Matrix : Groundwater									
Sampling Date : 2026-07-09									
Client Sample Identification : 6015 Flewellyn									
Microbiology	RL	Unit	Criteria						
			A	B	C				
Escherichia coli (DC)	0	CFU/100mL	0			0			
Total Coliforms (DC)	0	CFU/100mL	0			0			

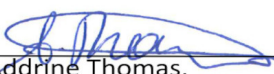
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

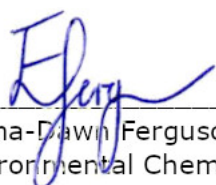
Reception Date: 2026-07-10

			Eurofins Sample No : 9869345						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6015 Flewellyn						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.026			
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				0.478			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	104	80-120	108	80-120	1	0-20
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	-	0-15
Associated Samples : 9869345								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869345								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	0	0-20
Associated Samples : 9869345								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

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	112	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	110	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	102	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	103	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	111	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	104	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	103	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	94	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	92	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	96	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	97	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	96	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	103	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	89	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	100	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	90	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	90	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	103	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	97	70-130	0	0-20
Magnesium	mg/L	1	<1	101	70-130	106	70-130	0	0-20
Potassium	mg/L	1	<1	99	70-130	103	70-130	-	0-20
Sodium	mg/L	1	<1	101	70-130	102	70-130	0	0-20
Associated Samples : 9869345								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	106	80-120	101	80-120	-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	105	80-120	109	80-120	-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869345								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	110	90-110	106	80-120	2	0-20
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-16	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	63	48-131			-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-15 Analysis Date: 2026-07-16	
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	100	80-120			-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869345								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869345								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869345								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4766641
WORK REQUEST : 100451252
Report Date : 2026-07-22
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-16
Project : PH5222
Sampler : NA
PO Number : 66473
Temperature : 9 °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 :

9894195

Compliant
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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9894195	6025 Flewellyn	Colour (Apparent)	40	TCU	5		
Metals Scan (Water, ICP/MS)							
9894195	6025 Flewellyn	Manganese	0.14	mg/L	0.05		
TDS (Estimated)							
9894195	6025 Flewellyn	TDS (Estimated)^	539	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

			Eurofins Sample No : 9894195						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6025 Flewellyn						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			33.1			
Fluoride	0.1	mg/L	1.5			<0.10			
Sulphate	1	mg/L	500			29			

			Eurofins Sample No : 9894195						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6025 Flewellyn						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.02						

			Eurofins Sample No : 9894195						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6025 Flewellyn						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			372			
Colour (Apparent)	2	TCU	5			40			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				829			
Dissolved Organic Carbon	0.5	mg/L	5			3.9			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			89			
pH @ 25°C	1		6.5-8.5			7.38			
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			539			
Turbidity	0.1	NTU	5			0.3			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

Eurofins Sample No :						9894195				
Matrix :						Groundwater				
Sampling Date :						2026-07-16				
Client Sample Identification :						6025 Flewellyn				
Metals	RL	Unit	Criteria							
			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			0.030				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.04				
Cadmium	0.0001	mg/L	0.005			<0.0001				
Chromium	0.001	mg/L	0.05			<0.001				
Cobalt	0.0002	mg/L				0.0041				
Copper	0.001	mg/L	1			0.035				
Iron	0.03	mg/L	0.3			0.12				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.14				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				0.460				
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			0.02				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				24				
Magnesium	1	mg/L				7				
Potassium	1	mg/L				<1				
Sodium	1	mg/L	200			170				

Eurofins Sample No :						9894195				
Matrix :						Groundwater				
Sampling Date :						2026-07-16				
Client Sample Identification :						6025 Flewellyn				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

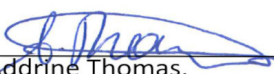
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

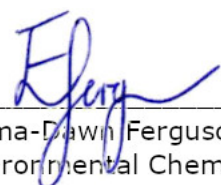
Reception Date: 2026-07-16

			Eurofins Sample No :			9894195				
			Matrix :			Groundwater				
			Sampling Date :			2026-07-16				
			Client Sample Identification :			6025 Flewellyn				
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			<0.1				
Nitrite (as Nitrogen)	0.1	mg/L	1.0			<0.1				
Total Kjeldahl Nitrogen	0.1	mg/L				0.208				

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

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	101	95-105			1	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	100	80-120	102	80-120	-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	92	80-120	103	80-120	1	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894195								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894195								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	102	98-102			0	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
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	101	85-115	1	0-15
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-22	
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 : 9894195								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
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 : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	96	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	81	80-120	78	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Beryllium	mg/L	0.0005	<0.0005	104	80-120	99	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	90	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	102	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	99	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	106	80-120	98	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	94	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	95	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	89	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	100	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	101	80-120	99	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	115	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Thallium	mg/L	0.0001	<0.0001	105	80-120	97	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	94	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	100	70-130	1	0-20
Magnesium	mg/L	1	<1	100	70-130	98	70-130	0	0-20
Potassium	mg/L	1	<1	100	70-130	98	70-130	-	0-20
Sodium	mg/L	1	<1	100	70-130	104	70-130	1	0-20
Associated Samples : 9894195								Prep Date: 2026-07-21 Analysis Date: 2026-07-16	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	97	80-120	95	80-120	-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	93	80-120	99	80-120	-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	7.39	100	97-103			0	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	104	80-120	88	70-130	-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	90	90-110	95	80-120	3	0-20
Associated Samples : 9894195								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-21 Analysis Date: 2026-07-21	
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	96	80-120			-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
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 : 9894195								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	103	70-130	98	70-130	-	0-20
Associated Samples : 9894195								Prep Date: 2026-07-17 Analysis Date: 2026-07-20	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	96	80-120			1	0-30
Associated Samples : 9894195								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4758526
WORK REQUEST : 100449551
Report Date : 2026-07-16
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-10
Project : PH5222
Sampler : NA
PO Number : 66405
Temperature : 10 °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 :

9869170

Compliant
Certificate Comments :

9869170

N-NO2 and N-NO3 MRLs 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9869170	6035 Flewellyn	Colour (Apparent)	10	TCU	5		
Hardness (Water, Calculation Only)							
9869170	6035 Flewellyn	Hardness as CaCO3 (Calculation)	349	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9869170	6035 Flewellyn	Iron	0.59	mg/L	0.3		
TDS (Estimated)							
9869170	6035 Flewellyn	TDS (Estimated)^	528	mg/L	500		
Total Coliforms (DC Plate)							
9869170	6035 Flewellyn	Total Coliforms (DC)	3	CFU/100mL	0		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

			Eurofins Sample No : 9869170						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6035 Flewellyn						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			58.5			
Sulphate	1	mg/L	500			42			

			Eurofins Sample No : 9869170						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6035 Flewellyn						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		0.99						

			Eurofins Sample No : 9869170						
			Matrix : Groundwater						
			Sampling Date : 2026-07-09						
			Client Sample Identification : 6035 Flewellyn						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO ₃)	5	mg/L	500			344			
Colour (Apparent)	2	TCU	5			10			
Colour (True)	2	TCU				4			
Conductivity @ 25°C	5	µS/cm				812			
Dissolved Organic Carbon	0.5	mg/L	5			3.1			
Fluoride	0.1	mg/L	1.5			0.25			
Hardness as CaCO ₃ (Calculation)	1	mg/L	80-100			349			
pH @ 25°C	1		6.5-8.5			7.42			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S ²⁻)	0.01	mg/L	0.05			<0.01			
Tannin and Lignin	0.1	mg/L				<0.1			
TDS (Estimated)^	5	mg/L	500			528			
Turbidity	0.1	NTU	5			1.5			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-10

Eurofins Sample No :						9869170				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						6035 Flewellyn				
Metals	RL	Unit	Criteria							
			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			0.160				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.15				
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			0.002				
Iron	0.03	mg/L	0.3			0.59				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.03				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				7.86				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				97				
Magnesium	1	mg/L				26				
Potassium	1	mg/L				3				
Sodium	1	mg/L	200			52				

Eurofins Sample No :						9869170				
Matrix :						Groundwater				
Sampling Date :						2026-07-09				
Client Sample Identification :						6035 Flewellyn				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			3				

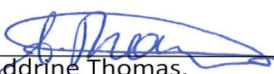
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

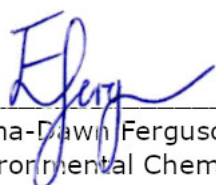
Reception Date: 2026-07-10

			Eurofins Sample No :			9869170				
			Matrix :			Groundwater				
			Sampling Date :			2026-07-09				
			Client Sample Identification :			6035 Flewellyn				
Nutrients	RL	Unit	Criteria							
			A	B	C					
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.061				
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				0.201				

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	97	80-120	103	80-120	-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	95	80-120	109	80-120	2	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			4	0-40
Associated Samples : 9869170								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9869170								Prep Date: 2026-07-14 Analysis Date: 2026-07-15	
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	96	85-115	7	0-15
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
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 : 9869170								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	104	90-110	102	80-120	-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-10 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

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	103	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	83	80-120	102	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	99	80-120	97	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	98	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	108	80-120	97	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	101	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	97	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	104	80-120	90	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	91	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	92	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	85	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	93	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	91	80-120	80	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	93	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	93	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	99	80-120	98	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	107	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	94	70-130	1	0-20
Thallium	mg/L	0.0001	<0.0001	101	80-120	85	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	84	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	98	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	90	70-130	-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	102	86-115	98	70-130	0	0-20
Magnesium	mg/L	1	<1	100	91-109	96	70-130	6	0-20
Potassium	mg/L	1	<1	103	87-113	110	70-130	-	0-20
Sodium	mg/L	1	<1	103	85-115	102	70-130	-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-15 Analysis Date: 2026-07-10	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	100	80-120	101	80-120	3	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	99	80-120	103	80-120	-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Phenols (Water, Colorimetry)									
Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.									
Phenols-4AAP	mg/L	0.001	<0.001	101	75-125	78	70-130	4	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-13	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	101	90-110	108	80-120	0	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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	100	80-120			-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-14 Analysis Date: 2026-07-14	
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 : 9869170								Prep Date: 2026-07-10 Analysis Date: 2026-07-11	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	101	70-130	106	70-130	-	0-20
Associated Samples : 9869170								Prep Date: 2026-07-13 Analysis Date: 2026-07-14	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	95	80-120			-	0-30
Associated Samples : 9869170								Prep Date: 2026-07-10 Analysis Date: 2026-07-10	

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

[illegible]

OFFICIAL CERTIFICATE OF ANALYSIS : 4766640
WORK REQUEST : 100451251
Report Date : 2026-07-22
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-16

Project : PH5222

Sampler : NA

PO Number : 66472

Temperature : 9 °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 :

9894184

Compliant
Certificate Comments :

9894184

S2-, N-NO3 and N-NO2 MRLs 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9894184	6140 Flewellyn	Colour (Apparent)	8	TCU	5		
Hardness (Water, Calculation Only)							
9894184	6140 Flewellyn	Hardness as CaCO3 (Calculation)	467	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9894184	6140 Flewellyn	Iron	0.68	mg/L	0.3		
TDS (Estimated)							
9894184	6140 Flewellyn	TDS (Estimated)^	787	mg/L	500		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

			Eurofins Sample No : 9894184						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6140 Flewellyn						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			161			
Fluoride	0.1	mg/L	1.5			0.18			
Sulphate	1	mg/L	500			92			

			Eurofins Sample No : 9894184						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6140 Flewellyn						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		1.03						

			Eurofins Sample No : 9894184						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6140 Flewellyn						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			298			
Colour (Apparent)	2	TCU	5			8			
Colour (True)	2	TCU				3			
Conductivity @ 25°C	5	µS/cm				1210			
Dissolved Organic Carbon	0.5	mg/L	5			1.5			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			467			
pH @ 25°C	1		6.5-8.5			7.31			
Phenols-4AAP	0.001	mg/L				<0.001			
Sulphide (S2-)	0.01	mg/L	0.05			<0.02			
Tannin and Lignin	0.1	mg/L				0.2			
TDS (Estimated)^	5	mg/L	500			787			
Turbidity	0.1	NTU	5			2.9			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-16

Eurofins Sample No :						9894184				
Matrix :						Groundwater				
Sampling Date :						2026-07-16				
Client Sample Identification :						6140 Flewellyn				
Metals	RL	Unit	Criteria							
			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			0.227				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.12				
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			0.002				
Iron	0.03	mg/L	0.3			0.68				
Lead	0.001	mg/L	0.01			<0.001				
Manganese	0.01	mg/L	0.05			0.02				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				7.82				
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			<0.01				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				131				
Magnesium	1	mg/L				34				
Potassium	1	mg/L				4				
Sodium	1	mg/L	200			76				

Eurofins Sample No :						9894184				
Matrix :						Groundwater				
Sampling Date :						2026-07-16				
Client Sample Identification :						6140 Flewellyn				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

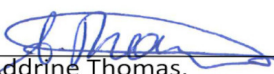
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

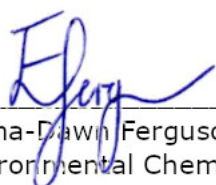
Reception Date: 2026-07-16

			Eurofins Sample No : 9894184						
			Matrix : Groundwater						
			Sampling Date : 2026-07-16						
			Client Sample Identification : 6140 Flewellyn						
Nutrients	RL	Unit	Criteria						
			A	B	C				
Ammonia (Total, as Nitrogen)	0.02	mg/L				0.038			
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				0.109			

Approved by :


Addrine Thomas,
Chemistry Manager, Ottawa

Approved by :


Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	101	95-105			1	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	98	80-120	100	80-120	-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-20	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	92	80-120	103	80-120	1	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894184								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	102	78-116			-	0-40
Associated Samples : 9894184								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	102	98-102			0	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
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	101	85-115	1	0-15
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-22	
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 : 9894184								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
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 : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	96	70-130	-	0-20
Antimony	mg/L	0.0005	<0.0005	81	80-120	78	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Beryllium	mg/L	0.0005	<0.0005	104	80-120	99	70-130	-	0-20
Boron	mg/L	0.01	<0.01	100	80-120	90	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	102	80-120	96	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	99	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	106	80-120	98	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	101	70-130	-	0-20
Iron	mg/L	0.03	<0.03	100	80-120	94	70-130	-	0-20
Lead	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	94	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	95	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	89	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	100	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	101	80-120	99	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	115	80-120	83	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	91	70-130	-	0-20
Thallium	mg/L	0.0001	<0.0001	105	80-120	97	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	94	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	96	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	100	70-130	100	70-130	1	0-20
Magnesium	mg/L	1	<1	100	70-130	98	70-130	0	0-20
Potassium	mg/L	1	<1	100	70-130	98	70-130	-	0-20
Sodium	mg/L	1	<1	100	70-130	104	70-130	1	0-20
Associated Samples : 9894184								Prep Date: 2026-07-21 Analysis Date: 2026-07-16	
Nitrate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrate (as Nitrogen)	mg/L	0.1	<0.1	97	80-120	95	80-120	-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Nitrite (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Nitrite (as Nitrogen)	mg/L	0.1	<0.1	93	80-120	99	80-120	-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	7.39	100	97-103			0	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

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	104	80-120	88	70-130	-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	90	90-110	95	80-120	3	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-21	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	66	48-131			-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-21 Analysis Date: 2026-07-21	
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	96	80-120			-	0-20
Associated Samples : 9894184								Prep Date: 2026-07-22 Analysis Date: 2026-07-22	
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 : 9894184								Prep Date: 2026-07-16 Analysis Date: 2026-07-17	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	94	70-130	112	70-130	2	0-20
Associated Samples : 9894184								Prep Date: 2026-07-20 Analysis Date: 2026-07-20	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	96	80-120			1	0-30
Associated Samples : 9894184								Prep Date: 2026-07-17 Analysis Date: 2026-07-17	

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

OFFICIAL CERTIFICATE OF ANALYSIS : 4789072
WORK REQUEST : 100454845
Report Date : 2026-08-06
Paterson Group

9 Auriga Drive
Ottawa, Ontario
K2J 5Z9
Attention : Zavian Buchanan

Reception Date : 2026-07-30
Project : PH5222
Sampler : NA
PO Number : 66614
Temperature : 4 °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 :

9936396

Compliant
Certificate Comments :

9936396

N-NO2 and N-NO3 MRLs 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

N/A : Not applicable

* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-30

Eurofins Sample No	Client Sample Identification	Analyte	Result	Units	Exceeded Criteria		
					A	B	C
Colour, Apparent (Water, Spectrophotometry)							
9936396	6172 Flew	Colour (Apparent)	123	TCU	5		
Hardness (Water, Calculation Only)							
9936396	6172 Flew	Hardness as CaCO3 (Calculation)	467	mg/L	80-100		
Metals Scan (Water, ICP/MS)							
9936396	6172 Flew	Iron	1.17	mg/L	0.3		
TDS (Estimated)							
9936396	6172 Flew	TDS (Estimated)^	824	mg/L	500		
Turbidity (Water, Turbidimeter)							
9936396	6172 Flew	Turbidity	11.8	NTU	5		

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-30

			Eurofins Sample No : 9936396						
			Matrix : Groundwater						
			Sampling Date : 2026-07-30						
			Client Sample Identification : 6172 Flew						
Anions	RL	Unit	Criteria						
			A	B	C				
Chloride	0.5	mg/L	250			196			
Fluoride	0.1	mg/L	1.5			0.17			
Sulphate	1	mg/L	500			104			

			Eurofins Sample No : 9936396						
			Matrix : Groundwater						
			Sampling Date : 2026-07-30						
			Client Sample Identification : 6172 Flew						
Calculations	RL	Unit							
Ion Balance (Calculation)^	0.1		0.99						

			Eurofins Sample No : 9936396						
			Matrix : Groundwater						
			Sampling Date : 2026-07-30						
			Client Sample Identification : 6172 Flew						
General Chemistry	RL	Unit	Criteria						
			A	B	C				
Alkalinity (as CaCO3)	5	mg/L	500			311			
Colour (Apparent)	2	TCU	5			123			
Colour (True)	2	TCU				<2			
Conductivity @ 25°C	5	µS/cm				1270			
Dissolved Organic Carbon	0.5	mg/L	5			2.0			
Hardness as CaCO3 (Calculation)	1	mg/L	80-100			467			
pH @ 25°C	1		6.5-8.5			7.25			
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			824			
Turbidity	0.1	NTU	5			11.8			

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-30

Eurofins Sample No :						9936396				
Matrix :						Groundwater				
Sampling Date :						2026-07-30				
Client Sample Identification :						6172 Flew				
Metals	RL	Unit	Criteria							
			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			0.296				
Beryllium	0.0005	mg/L				<0.0005				
Boron	0.01	mg/L	5			0.09				
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			0.015				
Iron	0.03	mg/L	0.3			1.17				
Lead	0.001	mg/L	0.01			0.003				
Manganese	0.01	mg/L	0.05			0.04				
Mercury	0.0001	mg/L	0.001			<0.0001				
Molybdenum	0.005	mg/L				<0.005				
Nickel	0.005	mg/L				<0.005				
Selenium	0.001	mg/L	0.05			<0.001				
Silver	0.0001	mg/L				<0.0001				
Strontium	0.001	mg/L				6.86				
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			0.03				
Metals Scan (Water, ICP/OES)										
Calcium	1	mg/L				136				
Magnesium	1	mg/L				31				
Potassium	1	mg/L				3				
Sodium	1	mg/L	200			99				

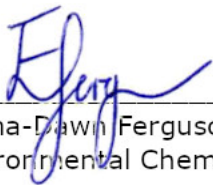
Eurofins Sample No :						9936396				
Matrix :						Groundwater				
Sampling Date :						2026-07-30				
Client Sample Identification :						6172 Flew				
Microbiology	RL	Unit	Criteria							
			A	B	C					
Escherichia coli (DC)	0	CFU/100mL	0			0				
Total Coliforms (DC)	0	CFU/100mL	0			0				

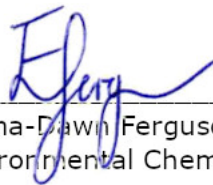
OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-30

			Eurofins Sample No : 9936396						
			Matrix : Groundwater						
			Sampling Date : 2026-07-30						
			Client Sample Identification : 6172 Flew						
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				<0.100			

Approved by : 
Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

Approved by : 
Emma-Dawn Ferguson, M.Sc.
Environmental Chemist

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-30

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	95	95-105			1	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-05	
Ammonia, Total (Water, Colorimetry)									
Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.									
Ammonia (Total, as Nitrogen)	mg/L	0.02	<0.020	117	80-120	104	80-120	-	0-20
Associated Samples : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-07-31	
Chloride (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Chloride	mg/L	0.5	<0.5	98	80-120	106	80-120	1	0-20
Associated Samples : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-08-04	
Colour, Apparent (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (Apparent)	TCU	2	<2	95	78-116			2	0-40
Associated Samples : 9936396								Prep Date: 2026-08-05 Analysis Date: 2026-08-05	
Colour, True (Water, Spectrophotometry)									
Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.									
Colour (True)	TCU	2	<2	95	78-116			-	0-40
Associated Samples : 9936396								Prep Date: 2026-08-05 Analysis Date: 2026-08-05	
Conductivity (Water, Automated)									
Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.									
Conductivity @ 25°C	uS/cm	5	<5	99	98-102			1	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-05	
DOC (Water, IR)									
Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.									
Dissolved Organic Carbon	mg/L	0.5	<0.5	96	88-112	90	85-115	-	0-15
Associated Samples : 9936396								Prep Date: 2026-08-05 Analysis Date: 2026-08-06	
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 : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-08-01	
Fluoride (Water, Auto/ISE)									
Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.									
Fluoride	mg/L	0.1	<0.10	100	90-110			-	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-05	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group
Project : PH5222

Reception Date: 2026-07-30

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	99	70-130	0	0-20
Antimony	mg/L	0.0005	<0.0005	82	80-120	84	70-130	-	0-20
Arsenic	mg/L	0.001	<0.001	101	80-120	100	70-130	-	0-20
Barium	mg/L	0.001	<0.001	100	80-120	95	70-130	0	0-20
Beryllium	mg/L	0.0005	<0.0005	110	80-120	104	70-130	-	0-20
Boron	mg/L	0.01	<0.01	110	80-120	100	70-130	-	0-20
Cadmium	mg/L	0.0001	<0.0001	104	80-120	98	70-130	-	0-20
Chromium	mg/L	0.001	<0.001	110	80-120	103	70-130	-	0-20
Cobalt	mg/L	0.0002	<0.0002	107	80-120	101	70-130	-	0-20
Copper	mg/L	0.001	<0.001	110	80-120	101	70-130	3	0-20
Iron	mg/L	0.03	<0.03	100	80-120	100	70-130	0	0-20
Lead	mg/L	0.001	<0.001	100	80-120	99	70-130	0	0-20
Manganese	mg/L	0.01	<0.01	100	80-120	99	70-130	-	0-20
Mercury	mg/L	0.0001	<0.0001	99	80-120	100	70-130	-	0-20
Molybdenum	mg/L	0.005	<0.005	100	80-120	96	70-130	-	0-20
Nickel	mg/L	0.005	<0.005	110	80-120	104	70-130	-	0-20
Selenium	mg/L	0.001	<0.001	102	80-120	100	70-130	-	0-20
Silver	mg/L	0.0001	<0.0001	109	80-120	100	70-130	-	0-20
Strontium	mg/L	0.001	<0.001	100	80-120	95	70-130	0	0-20
Thallium	mg/L	0.0001	<0.0001	105	80-120	99	70-130	-	0-20
Uranium	mg/L	0.001	<0.001	100	80-120	99	70-130	-	0-20
Vanadium	mg/L	0.001	<0.001	100	80-120	101	70-130	-	0-20
Zinc	mg/L	0.01	<0.01	110	80-120	106	70-130	-	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-04	
Metals Scan (Water, ICP/OES)									
Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.									
Calcium	mg/L	1	<1	99	70-130	105	70-130	0	0-20
Magnesium	mg/L	1	<1	99	70-130	109	70-130	11	0-20
Potassium	mg/L	1	<1	99	70-130	92	70-130	-	0-20
Sodium	mg/L	1	<1	100	70-130	104	70-130	7	0-20
Associated Samples : 9936396								Prep Date: 2026-08-05 Analysis Date: 2026-07-31	
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	102	80-120	-	0-20
Associated Samples : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-08-06	
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	103	80-120	-	0-20
Associated Samples : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-08-04	
pH (25°C) (Water, Automated)									
Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.									
pH @ 25°C		1	5.62	99	97-103			1	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-05	

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-30

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	111	75-125	88	70-130	-	0-20
Associated Samples : 9936396								Prep Date: 2026-08-06 Analysis Date: 2026-08-06	
Sulphate (Water, IC)									
Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.									
Sulphate	mg/L	1	<1	100	90-110	99	80-120	0	0-20
Associated Samples : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-08-04	
Sulphide (Water, Colorimetry)									
Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.									
Sulphide (S2-)	mg/L	0.01	<0.01	61	48-131			-	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-04	
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	90	80-120			-	0-20
Associated Samples : 9936396								Prep Date: 2026-08-06 Analysis Date: 2026-08-06	
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 : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-08-01	
Total Kjeldahl Nitrogen (Water, Colorimetry)									
Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.									
Total Kjeldahl Nitrogen	mg/L	0.1	<0.100	94	70-130	107	70-130	-	0-20
Associated Samples : 9936396								Prep Date: 2026-08-04 Analysis Date: 2026-08-05	
Turbidity (Water, Turbidimeter)									
Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.									
Turbidity	NTU	0.1	<0.1	97	80-120			3	0-30
Associated Samples : 9936396								Prep Date: 2026-07-31 Analysis Date: 2026-07-31	

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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