Well Water

Annual Report
2025

McKenzie

1625 Lakeshore Drive
Shuniah ON P7A OT2

Drinking Water System Number
260009932

Lakehead Public Schools

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Part III Form 2

ANNUAL WELL WATER REPORT

LAKEHEAD DISTRICT SCHOOL BOARD

McKENZIE PUBLIC SCHOOL

1625 Lakeshore Drive, Shuniah, ON P7A 0T2

Drinking-water System Number: **260009932**

The Period being reported: **January 1, 2025 TO December 31, 2025**
Waterworks Type (O. Reg. 170/03): **SMALL NON-MUNICIPAL NON-RESIDENTIAL DESIGNATED FACILILTY**
Population Served: **80**

Maximum flow rate Capacity: **1.26 Litres per second**
Is this drinking-water system seasonally operated? **NO**
Area serviced by the Drinking-water system: **SCHOOL**

The following questions about designated and public facilities are for Small municipal non residential systems only

Number of designated facilities served by the drinking-water system: **ONE**
Name of each designated facility: **McKENZIE PUBLIC SCHOOL**
Address of each designated facility**: 1625 Lakeshore Drive, Shuniah, ON P7A 0T2**

Interested Authority for each designated facility served: **MINISRTY OF EDUCATION**

1. DESCRIPTION OF THE SYSTEM:

Source(s) of raw water:

✓ **Groundwater**
□ Surface
□ Ground water under direct influence of surface water

If the source is groundwater or GUDI:
Groundwater**: Yes**
GUDI: **NO**
Number of wells: **ONE**

Sample location names:
Raw: **WELL OUTLET**
Treated Water: **CLASSROOM**
List of chemicals used**: Chlorine**
Does the Drinking-water system have disinfection: **YES**

Disinfection methods: (Check the boxes that apply)

- ✓ **Chlorination**
- ☐ Chloramination
- ☐ Chlorine Dioxide
- ☐ Ozonation
- ☐ UltraViolet
- ☐ Others – Specify

Treatment type: (Check the boxes that apply)

- ☐ Coagulation
- ☐ Flocculation
- ☐ Sedimentation
- ☐ Filtration
- ☐ Filter Medium
- ☐ Membrane Filtration
- ☐ Membrane Filtration Type
- ☐ Alkalinity Adjustment
- ☐ pH Adjustment
- ☐ Clarifier- Sludge Blanket
- ☐ Clarifier – Upflow
- ☐ Dissolved Air Flotation
- ☐ Fluoridation
- ☐ Iron Sequestering
- ☐ Softening
- ☐ Stripping
- ✓ **Taste and Odour Control**
- ☐ Zebra Mussel Control

2. Adverse Results

Total number of adverse results during this reporting period for microbiological, chemical, chlorine residual, malfunction of other disinfection equipment, turbidity:
For each incident of adverse result please list the following:

Incident date: April 1, 2025
Adverse Condition: Chlorine Pump Failure
Corrective action: Replaced pump and clearance sampling
Corrective action date: April 9, 2025

3. Summary of results

Regulation 170 lab analysis results are summarized in appendix A.

Regulation 243 lab analysis results are summarized in appendix B.

5-year lab analysis results are summarized in appendix C. Next 60-month tests are due in 2030.

5. Major Expenses incurred during the period covered by the report
To install required equipment: **N/A**
To repair equipment: **N/A**
To replace equipment: **$10,000**

6. Providing information relating to compliance with the regulation:

A copy of the annual report given to each designated facility served by the drinking-water system;
Yes

A copy of the annual report given to each Interested Authority of each designated facility served by the drinking-water system
Yes, the Ministry of Education

A copy of the annual report will be provided to every person who requests a copy
Yes, by contacting the school main office or the Board's web site

Means that were used to share the information in this annual report:
Web Site: www.lakeheadschools.ca

Date of the report: March 25, 2026

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			TY2500402-001 (1)
Sample			
Evaluation			Within Limit
Matrix			Water/Drinking Water - Regulated
Sample Tags			McKenzie PS Reg 170
Total Samples			12 Raw / 24 Distrubution
Batch			
Site			260009932
Evaluation			Within Limit
	Min. LOR	**CAS Number**	
Microbiological Tests			
Coliforms, Escherichia coli [E. coli] MPN/100mL	1		<1
Coliforms, Escherichia coli [E. coli] P/A/100mL			Not Detected
Coliforms, total MPN/100mL	1		<1
Coliforms, total P/A/100mL			Not Detected
Heterotrophic plate count [HPC] CFU/mL	1		0 - >300

		TY2502574-004 (1)	TY2506388-001 (1)	TY2510868-001 (1)	TY2514253-004 (1)
Sample					
Received Date		18-03-2025	17-06-2025	23-09-2025	02-12-2025
Evaluation		Within Limit	Within Limit	Within Limit	Within Limit
Matrix		Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description		Treated	Treated	Treated	Distribution
Sample Tags		McKenzie PS Reg 170	McKenzie PS Reg 170	McKenzie PS Reg 170	McKenzie PS Reg 170
Sample Name		Treated Water McKenzie	Treated Water McKenzie	Treated Water McKenzie	Distribution Room 10
Sampling Date		18-03-2025	17-06-2025	23-09-2025	02-12-2025
ALS ID		TY2502574-004	TY2506388-001	TY2510868-001	TY2514253-004
Batch					
Received Date		18-03-2025	17-06-2025	23-09-2025	02-12-2025
Site		260009932	260009932	260009932	260009932
Evaluation		Within Limit	Within Limit	Within Limit	Within Limit
Job #		260009932	260009932	260009932	260009932
	Min. LOR				
Anions and Nutrients					
Nitrate (as N) mg/L	0.020	<0.020	<0.020	<0.020	<0.020
Nitrite (as N) mg/L	0.010	<0.010	<0.010	<0.010	<0.010

		TY2505721-001	TY2505721-002	TY2505721-003	TY2505721-004	TY2505721-005	TY2505721-006
Sample							
Received Date		03-06-2025	03-06-2025	03-06-2025	03-06-2025	03-06-2025	03-06-2025
Evaluation		Within Limit	Within Limit	Within Limit	Within Limit	Within Limit	Within Limit
Matrix		Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description		Plumbing	Plumbing Flushed	Plumbing	Plumbing Flushed	Plumbing	Plumbing Flushed
Sample Tags		McKenzie PS Reg	McKenzie PS Reg	McKenzie PS Reg	McKenzie PS Reg	McKenzie PS Reg	McKenzie PS Reg
Sample Name		McKenzie PS: MAC 1A-Room 1 -	McKenzie PS: MAC 1B- Room 1 -	McKenzie PS: MAC 2A- Room 2	McKenzie PS: MAC 2B- Room 2	McKenzie PS: MAC 3A -Room 3	McKenzie PS: MAC 3B -Room 3
Sampling Date		03-06-2025	03-06-2025	03-06-2025	03-06-2025	03-06-2025	03-06-2025
ALS ID		TY2505721-001	TY2505721-002	TY2505721-003	TY2505721-004	TY2505721-005	TY2505721-006
Batch							
Received Date		03-06-2025	03-06-2025	03-06-2025	03-06-2025	03-06-2025	03-06-2025
Site		500021763	500021763	500021763	500021763	500021763	500021763
Evaluation		Within Limit	Within Limit	Within Limit	Within Limit	Within Limit	Within Limit
Job #		500021763	500021763	500021763	500021763	500021763	500021763
	Min. LOR						
Total Metals							
Lead, total µg/L	1.0	<1.0	<1.0	3.6	<1.0	3.2	<1.0

			TY2506378-001 (1)	TY2506388-001 (1)	TY2506388-002 (1)
Sample					
Received Date			17-06-2025	17-06-2025	17-06-2025
Evaluation			Within Limit	Within Limit	Within Limit
Matrix			Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Sample Description			Treated	Treated	Treated
Sample Tags			McKenzie PS Reg 170	McKenzie PS Reg 170	McKenzie PS Reg 170
Sample Name			Treated Water McKenzie	Treated Water McKenzie	Treated Water McKenzie
Sampling Date			17-06-2025	17-06-2025	17-06-2025
ALS ID			TY2506378-001	TY2506388-001	TY2506388-002
Batch					
Received Date			17-06-2025	17-06-2025	17-06-2025
Site			260009932	260009932	260009932
Evaluation			Within Limit	Within Limit	Within Limit
Job #			260009932	260009932	260009932
	Min. LOR	**CAS Number**			
Chlorinated Phenolics					
Dichlorophenol, 2,4- µg/L	0.20	120-83-2	<0.20		
Pentachlorophenol [PCP] µg/L	0.50	87-86-5	<0.50		
Tetrachlorophenol, 2,3,4,6- µg/L	0.50	58-90-2	<0.50		
Trichlorophenol, 2,4,6- µg/L	0.20	88-06-2	<0.20		
Herbicides					
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA] mg/L	0.000050	94-74-6	<0.000050		
Alachlor µg/L	0.050	15972-60-8	<0.050		
Atrazine + N-dealkylated metabolites µg/L	0.14		<0.14		
Atrazine µg/L	0.100	1912-24-9	<0.100		
Atrazine-desethyl µg/L	0.100	6190-65-4	<0.100		
Bromoxynil µg/L	0.050	1689-84-5	<0.050		
Dicamba µg/L	0.10	1918-00-9	<0.10		
Dichlorophenoxyacetic acid, 2,4- [2,4-D] µg/L	0.050	94-75-7	<0.050		
Diclofop-methyl µg/L	0.10	51338-27-3	<0.10		
Diquat (ion) µg/L	1.0	2764-72-9	<1.0		
Diuron µg/L	0.050	330-54-1	<0.050		
Glyphosate µg/L	1.0	1071-83-6	<1.0		
Metolachlor µg/L	0.025	51218-45-2	<0.025		
Metribuzin µg/L	0.10	21087-64-9	<0.10		
Paraquat (as dichloride) µg/L	1.0	1910-42-5	<1.0		
Picloram µg/L	0.10	1918-02-1	<0.10		
Prometryn µg/L	0.025	7287-19-6	<0.025		
Simazine µg/L	0.10	122-34-9	<0.10		
Triallate µg/L	0.10	2303-17-5	<0.10		
Trifluralin µg/L	0.10	1582-09-8	<0.10		
Herbicides Surrogates					
Dichlorophenylacetic acid, 2,4- µg/L	1.0	19719-28-9	9.1		
Insecticides					
Azinphos-methyl µg/L	0.10	86-50-0	<0.10		
Carbaryl µg/L	0.050	63-25-2	<0.050		

Carbofuran µg/L	0.025	1563-66-2	<0.025		
Chlorpyrifos µg/L	0.10	2921-88-2	<0.10		
Diazinon µg/L	0.025	333-41-5	<0.025		
Dimethoate µg/L	20.0	60-51-5	<20.0		
Malathion µg/L	0.025	121-75-5	<0.025		
Phorate µg/L	0.25	298-02-2	<0.25		
Terbufos µg/L	0.50	13071-79-9	<0.50		
Phenolics Surrogates					
Tribromophenol, 2,4,6- µg/L	0.50	118-79-6	61.4		
Polychlorinated Biphenyls					
Aroclor 1254 µg/L	0.020	11097-69-1	<0.020		
Aroclor 1260 µg/L	0.020	11096-82-5	<0.020		
polychlorinated biphenyls [PCBs], 1254+1260 µg/L	0.03	n/a	<0.030		
Polychlorinated Biphenyls Surrogates					
Decachlorobiphenyl µg/L	0.1	2051-24-3	0.1		
Tetrachloro-m-xylene µg/L	0.1	877-09-8	0.2		
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene µg/L	0.0050	50-32-8	<0.0050		
Polycyclic Aromatic Hydrocarbons Surrogates					
Chrysene-d12 µg/L	0.1	1719-03-5	0.8		
Naphthalene-d8 µg/L	0.1	1146-65-2	0.8		
Phenanthrene-d10 µg/L	0.1	1517-22-2	0.8		
Semi-Volatile Organics Surrogates					
Fluorobiphenyl, 2- µg/L	1.0	321-60-8	65.4		
Nitrobenzene-d5 µg/L	1.0	4165-60-0	68.3		
Terphenyl-d14, p- µg/L	1.0	1718-51-0	84.3		
Total Metals					
Antimony, total µg/L	0.60	7440-36-0		<0.60	
Arsenic, total µg/L	1.0	7440-38-2		1.4	
Barium, total µg/L	10	7440-39-3		366	
Boron, total µg/L	50	7440-42-8		<50	
Cadmium, total µg/L	0.10	7440-43-9		<0.10	
Chromium, total µg/L	1.0	7440-47-3		<1.0	
Mercury, total µg/L	0.100	7439-97-6			<0.100
Selenium, total µg/L	1.0	7782-49-2		<1.0	
Uranium, total µg/L	2.0	7440-61-1		<2.0	