

Well Water

Annual Report
2025

Kakabeka Falls

1 Porter Street
Kakabeka Falls ON POT TWO

Drinking Water System Number
260009893



Lakehead
Public
Schools

Committed to the success of every student
www.lakeheadschoos.ca



Belonging Empathy Integrity Respect

You belong here

ANNUAL WELL WATER REPORT

LAKEHEAD DISTRICT SCHOOL BOARD

**KAKABEKA FALLS PUBLIC SCHOOL
1 PORTER St. KAKABEKA FALLS, ON. POT 1W0**

Drinking-water System Number: **260009893**

The Period being reported: **January 1 2025 TO December 31, 2025**
Waterworks Type (O. Reg. 170/03): **SMALL NON-MUNICIPAL NON-RESIDENTIAL DESIGNATED FACILITY**
Population Served: **160**

Maximum flow rate Capacity: **1.13 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: **KAKABEKA FALLS PUBLIC SCHOOL**
Address of each designated facility **1 PORTER St. KAKABEKA FALLS, ON. POT 1W0.**
Interested Authority for each designated facility served: **MINISRTY OF EDUCATION**
Number of Public facilities served by the drinking-water system: **N/A**
Name of each public facility served by the drinking-water system: **N/A**

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 distribution Point: **CLASSROOM**

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:

For each incident of adverse result please list the following:

Incident date: June 10, 2025

Adverse Condition: Pretreatment Filter Gasket failure

Corrective action: Replaced gasket and clearance sampling

Corrective action date: August 25, 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: \$15,000

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.lakeheadschoools.ca

Date of the report March 25, 2026

Name of the Author: Kyle Ulvang

Address of the author: 2135 SILLS ST. THUNDER BAY, ONT.

Telephone number of the author: 625-5177

Email address of the author: kyle_ulvang@lakeheadschoools.ca

Sample			
Matrix		Water/Drinking Water - Regulated	
Sample Tags		Kakabeka Falls PS Reg 170	
Total Samples		12 Raw / 24 Distribution	
Batch			
Site		260009893	
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		0-146

			TY2502369-004 (1)
Sample			
Received Date	12-03-2025		
Evaluation	Within Limit		
Matrix	Water/Drinking Water - Regulated		
Sample Description	Treated		
Sample Tags	Kakabeka Falls PS Reg 170		
Sample Name	Treated Water		
Sampling Date	12-03-2025		
ALS ID	TY2502369-004		
Batch			
Received Date	12-03-2025		
Site	260009893		
Evaluation	Exceeds Limit		
Job #	260009893		
	Min. LOR	CAS Number	
Anions and Nutrients			
Nitrate (as N) mg/L	0.020	14797-55-8	5.05
Nitrite (as N) mg/L	0.010	14797-65-0	<0.010

TY2504499-001 (1)	TY2511027-004 (1)	TY2514772-004 (1)
07-05-2025	26-09-2025	17-12-2025
Within Limit	Within Limit	Within Limit
Water/Drinking Water - Regulated	Water/Drinking Water - Regulated	Water/Drinking Water - Regulated
Treated	Treated	Treated
Kakabeka Falls PS Reg 170	Kakabeka Falls PS Reg 170	Kakabeka Falls PS Reg 170
Treated Water	Treated Water	Treated Water
07-05-2025	26-09-2025	17-12-2025
TY2504499-001	TY2511027-004	TY2514772-004
07-05-2025	26-09-2025	17-12-2025
260009893	260009893	260009893
Within Limit	Within Limit	Within Limit
260009893	260009893	260009893
7.03	4.86	4.31
<0.010	0.014	<0.010

	TY2504731-001 (1)	TY2504731-002 (1)	TY2504731-003 (1)	TY2504731-004 (1)	TY2504731-005 (1)	TY2504731-006 (1)
Sample						
Received Date	09-05-2025	09-05-2025	09-05-2025	09-05-2025	09-05-2025	09-05-2025
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 Standing	Plumbing Flushed	Plumbing Standing	Plumbing Flushed	Plumbing Standing	Plumbing Flushed
Sample Tags	Kakabeka Falls PS Reg	Kakabeka Falls PS Reg	Kakabeka Falls PS Reg	Kakabeka Falls PS Reg	Kakabeka Falls PS Reg	Kakabeka Falls PS Reg
Sample Name	Kakabeka Falls-KB	Kakabeka Falls-KB	Kakabeka Falls-KB	Kakabeka Falls-KB	Kakabeka Falls-KB	Kakabeka Falls-KB
Sampling Date	09-05-2025	09-05-2025	09-05-2025	09-05-2025	09-05-2025	09-05-2025
ALS ID	TY2504731-001	TY2504731-002	TY2504731-003	TY2504731-004	TY2504731-005	TY2504731-006
Batch						
Received Date	09-05-2025	09-05-2025	09-05-2025	09-05-2025	09-05-2025	09-05-2025
Site	500022075	500022075	500022075	500022075	500022075	500022075
Evaluation	Within Limit	Within Limit	Within Limit	Within Limit	Within Limit	Within Limit
Job #	500022075	500022075	500022075	500022075	500022075	500022075
	Min. LOR					
Total Metals						
Lead, total µg/L	1.0	2.1	<1.0	2.2	1.1	2.9
						1.5

			TY2504498-001 (1)	TY2504499-001 (1)	TY2505806-001 (1)
Sample					
Received Date			07-05-2025	07-05-2025	04-06-2025
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			Kakabeka Falls PS Reg 170	Kakabeka Falls PS Reg 170	Kakabeka Falls PS Reg 170
Sample Name			Treated Water	Treated Water	Treated Water VOC
Sampling Date			07-05-2025	07-05-2025	04-06-2025
ALS ID			TY2504498-001	TY2504499-001	TY2505806-001
Batch					
Received Date			07-05-2025	07-05-2025	04-06-2025
Site			260009893	260009893	260009893
Evaluation			Within Limit	Within Limit	Within Limit
Job #			260009893	260009893	260009893
	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	9.4		
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	0.050	60-51-5	<0.050		
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	72.7		
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	0.2		
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	1.1		
Naphthalene-d8 µg/L	0.1	1146-65-2	1.1		
Phenanthrene-d10 µg/L	0.1	1517-22-2	1.2		
Semi-Volatile Organics Surrogates					
Fluorobiphenyl, 2- µg/L	1.0	321-60-8	100		
Nitrobenzene-d5 µg/L	1.0	4165-60-0	88.1		
Terphenyl-d14, p- µg/L	1.0	1718-51-0	135		
Total Metals					
Antimony, total µg/L	0.60	7440-36-0		<0.60	
Arsenic, total µg/L	1.0	7440-38-2		<1.0	
Barium, total µg/L	10	7440-39-3		49	
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	
Sodium, total mg/L	0.50	7440-23-5		10.2	
Uranium, total µg/L	2.0	7440-61-1		<2.0	
Volatile Organic Compounds					
Benzene µg/L	0.50	71-43-2			<0.50
Carbon tetrachloride µg/L	0.20	56-23-5			<0.20

Chlorobenzene µg/L	0.50	108-90-7			<0.50
Dichlorobenzene, 1,2- µg/L	0.50	95-50-1			<0.50
Dichlorobenzene, 1,4- µg/L	0.50	106-46-7			<0.50
Dichloroethane, 1,2- µg/L	0.50	107-06-2			<0.50
Dichloroethylene, 1,1- µg/L	0.50	75-35-4			<0.50
Dichloromethane µg/L	1.0	75-09-2			<1.0
Tetrachloroethylene µg/L	0.50	127-18-4			<0.50
Trichloroethylene µg/L	0.50	79-01-6			<0.50
Vinyl chloride µg/L	0.20	75-01-4			<0.20
Volatile Organic Compounds Surrogates					
Bromofluorobenzene, 4- µg/L	1	460-00-4	NR		9.2
Difluorobenzene, 1,4- µg/L	1	540-36-3	NR		10.2