

2025 SECTION 11 ANNUAL REPORT

VESPRA DOWNS
DRINKING WATER
SYSTEM



For the period of
January 1st, 2025 to December 31st, 2025

Prepared for the Corporation of the Township of Springwater by the Ontario Clean Water Agency



This report was prepared in accordance with the requirements of [O.Reg 170/03, Section 11, Annual reports](#) for the following system and reporting period:

Drinking Water System Number:	260001786
Drinking Water System Name:	Vespra Drinking Water System
Drinking Water System Owner:	The Corporation of the Township of Springwater
Drinking Water System Category:	Small Municipal Residential
Reporting Period:	January 1, 2025 – December 31, 2025

Does the Drinking Water System serve more than 10,000 people?

No

Is the Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. (O. Reg 170/03, Section 11.(6)(f)):

- Township of Springwater Municipal Office 2231 Nursery Road, Minesing
- <https://www.springwater.ca/en/living-here/water-quality-and-testing.aspx>

Note: This is required for large municipal residential systems or small municipal residential systems.

List all Drinking Water Systems (if any), which receive all of their drinking water from the system:

Drinking Water System Name	Drinking Water System Number
N/A	N/A

Is a copy of the annual report provided to all Drinking Water System owners that are connected to this system and to whom this system provides all of its drinking water?

N/A

How system users are notified that the annual report is available, and is free of charge. (O.Reg 170/03, Section 11.(7))

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Public access/notice via the web |
| <input checked="" type="checkbox"/> | Public access/notice via Government Office |
| <input type="checkbox"/> | Public access/notice via a newspaper |

- Public access/notice via Public Request
 Public access/notice via a Public Library
 Public access/notice via other method: _____

Note: The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. ((O.Reg 170/03, Section 11.(7)).

Description of Drinking Water System (O.Reg 170/03, Section 11.(6)(a)):

The Vespra Downs Drinking Water System (DWS) is classified as a Limited Ground Water System and categorized as a Small Municipal Residential Drinking Water System under O.Reg 170/03, servicing a population of 126 persons via 44 service connections. The system is comprised of two production wells and one water treatment plant that supplies water to the distribution system.

The raw water is supplied from two drilled groundwater wells (Well No. 1 and Well No. 2). The raw water pumped from the wells is treated with Sodium Silicate (for iron sequestration) and Sodium Hypochlorite (for primary and secondary disinfection). The treated water is conveyed through a chlorine contact pipe prior to the first service connection. Online equipment continuously monitors flow and free chlorine residual. The facility is equipped with standby power in the event of a power failure.

List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

- Sodium Hypochlorite, 12%
- Sodium Silicate

Significant expenses were incurred to:

- Install required equipment
 Repair required equipment
 Replace required equipment
 No significant expenses were incurred

Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

- Pressure tank replacement and installation (x2)
- Chlorine analyzer replacement and installation.

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg 170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O. Reg 170/03, Section 11.(6)(b),(d):

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result	Unit of Measure	Reporting Summary, Corrective Actions & Resolution
N/A	N/A	N/A	N/A	N/A

Table 1. Microbiological testing done under the Schedule 10, 11 or 12 (as applicable) of O.Reg 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
RW – Well No. 1 ^{1A}	12	0	0	0	0	N/A	N/A	N/A
RW – Well No. 2 ^{1A}	12	0	0	0	0	N/A	N/A	N/A
Treated ^{1B}	12	0	0	0	0	12	<10	10
Distribution ^{1C}	52	0	0	0	0	52	<10	20

Note: RW = Raw Water, HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

^{1A}O.Reg 170/03, Schedule 11-3. (1)(3) requires for a small municipal residential system that is ground water that a water sample is taken at least once every month from the drinking water system’s raw water in each well, before any treatment is applied to the water and tested for E.Coli and total coliforms.

^{1B}Under O. Reg 170/03, treated water sampling is not required for a Small Municipal Drinking Water Systems. For Vespra Downs DWS as a best practice, OCWA proactively samples treated drinking water on a monthly basis.

^{1C}O.Reg 170/03 Schedule 11-2.(1)(2) requires for a small municipal drinking water system that at least one distribution sample be taken every two weeks and be tested for E.Coli, Total Coliforms and HPC. For Vespra Downs DWS as a best practice, OCWA proactively takes a distribution samples on a weekly basis.

Table 2. Operational testing done under Schedule 7, 8 or 9 (as applicable) O. Reg 170/03 during the period covered by this Annual Report (O. Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Turbidity, In-House (NTU) – Well No. 1 ^{2A}	12	0.13	0.57
Turbidity, In-House (NTU) – Well No. 2 ^{2A}	12	0.12	0.68
Free Chlorine Residual, Continuous (mg/L) – Treated ^{2B}	8760	0.51	2.40

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Free Chlorine Residual, Grab (mg/L) – Distribution ^{2C}	105	0.61	1.56

Note: The number of samples used for continuous monitoring units is 8760.

^{2A} O.Reg 170/03, Schedule 7-3.(1)(1.1) requires a raw water sample to be taken at least once every month from each well that is supplying water to the system and tested for turbidity.

^{2B} O.Reg 170/03 Schedule 7-2.(1) requires a drinking water system that provides chlorination for primary disinfection to sample and test for free chlorine residual with continuous monitoring equipment in the treatment process at or near a location where the intended contact time has just been completed.

^{2C} O.Reg 170/03 Schedule 7-2.(5) requires a small municipal residential system that provides secondary disinfection to take at least two distribution samples each week and immediately tested for free chlorine residual, if the system provides chlorination and does not provide chloramination.

Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument during the reporting period and if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter (O. Reg 170/03, Section 11.(6)(c)):

Legal Instrument & Issue Date (yyyy/mm/dd)	Parameter	Date Sampled (yyyy/mm/dd)	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A

Table 4. Summary of Inorganic parameters tested during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c))

Parameter & Location	Sample Date ^{4A} (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (µg/L) - TW	2024/02/20	< MDL 0.6	6.0	No
Arsenic: As (µg/L) - TW	2024/02/20	< MDL 0.2	10.0	No
Barium: Ba (µg/L) - TW	2024/02/20	176	1000.0	No
Boron: B (µg/L) - TW	2024/02/20	18	5000.0	No
Cadmium: Cd (µg/L) - TW	2024/02/20	< MDL 0.003	5.0	No
Chromium: Cr (µg/L) - TW	2024/02/20	0.18	50.0	No
Mercury: Hg (µg/L) - TW	2024/02/20	< MDL 0.01	1.0	No
Selenium: Se (µg/L) - TW	2024/02/20	< MDL 0.04	50.0	No
Uranium: U (µg/L) - TW	2024/02/20	0.02	20.0	No
Fluoride (mg/L) - TW	2023/05/15 ^{4B}	0.11	1.5	No
Nitrite (mg/L) - TW	2025/02/11	< MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2025/05/20	< MDL 0.003	1.0	No

Parameter & Location	Sample Date ^{4A} (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Nitrite (mg/L) - TW	2025/08/19	< MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2025/11/10	< MDL 0.003	1.0	No
Nitrate (mg/L) - TW	2025/02/11	< MDL 0.006	10.0	No
Nitrate (mg/L) - TW	2025/05/20	< MDL 0.006	10.0	No
Nitrate (mg/L) - TW	2025/08/19	< MDL 0.006	10.0	No
Nitrate (mg/L) - TW	2025/11/10	< MDL 0.006	10.0	No

Note: TW = Treated Water, DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration

^{4A}The owner of a small municipal residential system shall ensure that at least one water sample is taken every 60 months and tested for every parameter set out in Schedule 23 (O.Reg 170/03, Schedule 13-2(3)). The last set of samples were collected and tested in 2024, the next set of samples are scheduled to be collected and tested in 2027. For Vespra Downs DWS, while inorganic testing is only required every 60 months, as a best practice OCWA routinely samples every 36 months along with its other Large Municipal Residential Drinking Water Systems.

^{4B}Fluoride is reportable every 60 months. The most recent Fluoride samples were tested in 2023, the next set of samples is scheduled to be tested in 2028.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) - TW	2023/05/15 ^{4C}	10.7	20	No	No

Note: MDL = Minimum Detection Limit, TW = Treated Water

Note: There is no regulatory Maximum Allowable Concentration (MAC) Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

^{4C}Sodium is reportable every 60 months. The most recent Sodium samples were tested in 2023, the next set of samples is scheduled to be tested in 2028.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples ^{5A}	Range of Results		Number of Lead Exceedances
		Min.	Max.	MAC = 10 µg/L
Period: January 1 to April 15				
Plumbing – Lead (µg/L) ^{5B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5C}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	1	203	203	N/A

Location/Type & Parameter	Number of Samples ^{5A}	Range of Results		Number of Lead Exceedances
		Min.	Max.	MAC = 10 µg/L
Distribution – pH	1	7.90	7.90	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L) ^{5B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5C}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	1	201	201	N/A
Distribution – pH	1	7.30	7.30	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L) ^{5B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5C}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	N/A	N/A	N/A	N/A
Distribution – pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system. (O.Reg 170/03, Section 11.(6)(g)).

^{5A}The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 126 persons (as confirmed with the Owner on December 12, 2024) and therefore requires one (1) distribution sampling points per sampling period.

^{5B}Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).

^{5C}This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). Distribution lead samples are collected every 36 months. The most recent set of distribution lead samples were collected within the winter period of December 15, 2023 to April 15, 2024 and summer period of June 15, 2024 to October 15, 2024. The next set of distribution lead samples is scheduled to be collected within the winter period of December 15, 2026 to April 15, 2027 and summer period of June 15, 2027 to October 15, 2027.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
1,1-Dichloroethylene (µg/L)-TW	2024/02/20	< MDL 0.33	14	No
1,2-Dichlorobenzene (µg/L)-TW	2024/02/20	< MDL 0.41	200	No
1,2-Dichloroethane (µg/L)-TW	2024/02/20	< MDL 0.35	5	No
1,4-Dichlorobenzene (µg/L)-TW	2024/02/20	< MDL 0.36	5	No
2,3,4,6-Tetrachlorophenol (µg/L)-TW	2024/02/20	< MDL 0.2	100	No
2,4,6-Trichlorophenol (µg/L)-TW	2024/02/20	< MDL 0.25	5	No

Drinking Water System Regulation: O. Reg 170/03
 Section 11 Annual Report: January 1, 2025 to December 31, 2025
 The Corporation of the Township of Springwater: Vespra Drinking Water System

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
2,4-Dichlorophenol (µg/L)-TW	2024/02/20	< MDL 0.15	900	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L)-TW	2024/02/20	< MDL 0.19	100	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)-TW	2024/02/20	< MDL 0.12	100	No
Alachlor (µg/L) -TW	2024/02/20	< MDL 0.02	5	No
Atrazine + N-dealkylated metabolites (µg/L)-TW	2024/02/20	< MDL 0.01	5	No
Azinphos-methyl (µg/L)-TW	2024/02/20	< MDL 0.05	20	No
Benzene (µg/L)-TW	2024/02/20	< MDL 0.32	1	No
Benzo(a)pyrene (µg/L)-TW	2024/02/20	< MDL 0.004	0.01	No
Bromoxynil (µg/L)-TW	2024/02/20	< MDL 0.33	5	No
Carbaryl (µg/L)-TW	2024/02/20	< MDL 0.05	90	No
Carbofuran (µg/L) -TW	2024/02/20	< MDL 0.01	90	No
Carbon Tetrachloride (µg/L) - TW	2024/02/20	< MDL 0.17	2	No
Chlorpyrifos (µg/L) -TW	2024/02/20	< MDL 0.02	90	No
Diazinon (µg/L)-TW	2024/02/20	< MDL 0.02	20	No
Dicamba (µg/L)-TW	2024/02/20	< MDL 0.2	120	No
Dichloromethane (Methylene Chloride) (µg/L)-TW	2024/02/20	< MDL 0.35	50	No
Diclofop-methyl (µg/L)-TW	2024/02/20	< MDL 0.4	9	No
Dimethoate (µg/L)-TW	2024/02/20	< MDL 0.06	20	No
Diquat (µg/L)-TW	2024/02/20	< MDL 1	70	No
Diuron (µg/L)-TW	2024/02/20	< MDL 0.03	150	No
Glyphosate (µg/L)-TW	2024/02/20	< MDL 1	280	No
Malathion (µg/L)-TW	2024/02/20	< MDL 0.02	190	No
Metolachlor (µg/L)-TW	2024/02/20	< MDL 0.01	50	No
Metribuzin (µg/L)-TW	2024/02/20	< MDL 0.02	80	No
Monochlorobenzene (Chlorobenzene) (µg/L)-TW	2024/02/20	< MDL 0.3	80	No
Paraquat (µg/L)-TW	2024/02/20	< MDL 1	10	No
PCB (µg/L)-TW	2024/02/20	< MDL 0.04	3	No
Pentachlorophenol (µg/L)-TW	2024/02/20	< MDL 0.15	60	No
Phorate (µg/L)-TW	2024/02/20	< MDL 0.01	2	No
Picloram (µg/L)-TW	2024/02/20	< MDL 1	190	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Prometryne (µg/L)-TW	2024/02/20	< MDL 0.03	1	No
Simazine (µg/L)-TW	2024/02/20	< MDL 0.01	10	No
Terbufos (µg/L)-TW	2024/02/20	< MDL 0.01	1	No
Tetrachloroethylene (µg/L)-TW	2024/02/20	< MDL 0.35	10	No
Triallate (µg/L) -TW	2024/02/20	< MDL 0.01	230	No
Trichloroethylene (µg/L)-TW	2024/02/20	< MDL 0.44	5	No
Trifluralin (µg/L)-TW	2024/02/20	< MDL 0.02	45	No
Vinyl Chloride (µg/L)-TW	2024/02/20	< MDL 0.17	1	No
Trihalomethane: Total (µg/L) Annual Average – DW	4 Quarters (2025)	48.00	100.0	No
HAA Total (µg/L) Annual Average – DW	4 Quarters (2025)	22.48	80.0	No

Note: TW = Treated Water, DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration, HAA = Haloacetic Acids

Note: The owner of a small municipal residential system shall ensure that at least one water sample is taken every 60 months and tested for every parameter set out in Schedule 24 (O.Reg 170/03 13-4(3)). The last set of samples were collected and tested in 2024, the next set of samples are scheduled to be collected and tested in 2027. For Vespra Downs DWS, while organic parameter testing is only required every 60 months, as a best practice OCWA routinely samples every 36 months along with its other Large Municipal Residential Drinking Water Systems.

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
N/A	N/A	N/A