# LISTOWEL DRINKING WATER SYSTEM

2024 ANNUAL SUMMARY REPORT

Municipality of North Perth



# Introduction

The treatment and delivery of potable water in Ontario is regulated by the Ministry of the Environment, Conservation and Parks (MECP) under the Safe Drinking Water Act. On June 1, 2003, O. Reg. 170/03 came into effect which prescribes requirements for owners and operators of municipal drinking water systems.

O. Reg. 170/03 requires the owner to produce an Annual Report, under Schedule 11. The Report must include the following:

- A description of the drinking water system including a list of the water treatment chemicals used;
- A summary of any adverse test results or observations and corrective actions;
- A summary of all required test results;
- A description of any major expenses incurred to install, repair or replace equipment.

Every time an Annual Report is prepared the owner of the system shall ensure that effective steps are taken to advise users of water from the system that copies of the report are available, without charge, and how a copy may be obtained.

The Regulation also requires the owner to produce a Summary Report as indicated in Schedule 22.

- The report must list the requirements of the Act, its Regulations, the system's Drinking Water Works Permit, Municipal Drinking Water Licence, and any orders the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.
- To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.
  - A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and maximum daily flows;
  - A comparison of the summary to the rated capacity and flow rates approved in the system's Permit To Take Water, Drinking Water Works Permit and Municipal Drinking Water Licence.



## Part 1 - ANNUAL REPORT (as required by O. Reg. 170/03, Section 11)

Drinking-Water System Number:	220000512
Drinking-Water System Name:	Listowel Drinking Water System
Drinking-Water System Owner:	Municipality of North Perth
Drinking-Water System Category:	Large Municipal Residential
Municipal Drinking Water Licence:	091-103 (Issue #5)
Drinking Water Works Permit:	091-203 (Issue #4)
Permit to Take Water;	P-300-5141584896
Period being reported:	January 1 to December 31, 2024

Complete if your Category is Large Municipal Residential or Small Municipal Residential		Complete for all other Categories	
Does your Drinking-Water System serve more than 10,000 people?	☐ Yes ☑ No	Number of Designated Facilities served: 0	
Is your annual report available to the public at no Yes charge on a web site on the No Internet?		Did you provide a copy of your annual report to all Designated Facilities you serve?	☐ Yes ☐ No
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.		Number of Interested Authorities you report to: 0	
Municipal Office and Municipality of North Perth Website		Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?	☐ Yes ☐ No

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:				
Drinking Water System Name Drinking Water System Number				
	N/A			



Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

N/A

Indicate how you notified system users that your annual report is available and is free of charge.

✓ Public access/notice via the web	Public access/notice via Government Office	□ 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			
Describe your Drinking Water System					

The Listowel Drinking Water System is owned and operated by the Municipality of North Perth and provides a potable water supply to the residents of Listowel.

The Listowel Drinking Water System consists of three (3) ground water wells automatically controlled by a Supervisory Control and Data Acquisition (SCADA) system. System pressure is maintained by an elevated water tower at 580 Main St. West, with a maximum capacity of 3182m<sup>3</sup>. Predetermined water level set points automatically start and stop the well pumps. Two chemical feed pumps at each well also start automatically adding sodium hypochlorite and sodium silicate to the water.

The first chemical added is sodium hypochlorite (liquid chlorine). It is used to kill any diseasecausing organisms (disinfect) that may be present in the water. It is important to add enough of this chemical to maintain a free chlorine residual throughout the water distribution system. A chlorine analyzer ensures a sufficient residual is maintained in the water entering the distribution. The second chemical added is sodium silicate. It is used as a sequestering agent to prevent iron from oxidizing thereby minimizing the rust formation in the water.

List all water treatment chemicals used over this reporting period

- Liquid Chlorine 12% NSF certified
- Sodium Silicate NSF certified



Please provide a brief description and a breakdown of monetary expenses incurred

• Well # 6 in Listowel – Planned Maintenance Inspection - \$65,000

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe
Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills
Action Centre

Incident Date	Parameter	Result	Corrective Action Date	Corrective Action
		N/A		

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period					
	Number of Samples	Range of E. Coli Results (Min-Max)	Range of Total Coliform Results (Min-Max)	Number of HPC Samples	Range of HPC Results (Min-Max)
Well 4 - Raw	52	0-0	0-0	N/A	N/A
Well 5 - Raw	52	0-0	0-0	N/A	N/A
Well 6 - Raw	47	0-0	0-0	N/A	N/A
Well 4 - Treated	52	0-0	0-0	51	0-3
Well 5 - Treated	52	0-0	0-0	51	0-6
Well 6 Treated	47	0-0	0-0	46	0-36
Distribution 1 - Davidson Ave North	52	0-0	0-0	51	0-61
Distribution 2 - Palace End Blow Off	52	0-0	0-0	51	0-8



Distribution 3 -					
Listowel Fire	52	0-0	0-0	51	0-18
Hall					
Distribution 4 -					
Community	52	0-0	0-0	51	0-61
Garden					
Distribution 5 -					
Scott St. West	52	0-0	0-0	51	0-5
Blow Off					

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report				
	Number of Samples	Range of Results (Min-Max)	Units	
Well 4 -Raw Turbidity – grab sample	12	0.13 – 0.37	NTU	
Well 5 – Raw Turbidity – grab sample	12	0.17 – 0.48	NTU	
Well 6 – Raw Turbidity – grab sample	12	0.15 – 0.38	NTU	
Well 4 - Free Chlorine Residual – continuous monitor at well house	8,760	0.0* - 1.83	mg/L	
Well 5 - Free Chlorine Residual – continuous monitor at well house	8,760	0.0* - 1.85	mg/L	
Well 6 - Free Chlorine Residual – continuous monitor at well house	8,760	0.0* - 1.83	mg/L	
Free Chlorine Residual – grab samples in distribution system	468	0.62 – 1.14	mg/L	

\*Value due to operational maintenance



Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument					
Date of legal instrument issuedParameterDate SampledResultUnit of Measure					
N/A					

Additional water information		
	N/A	

# Inorganic Testing – Well 4

Summary of Inorganic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Aug 12/24	ND	μg/L	No
Arsenic – Q1	Feb 12/24	5.8	μg/L	No
Arsenic – Q2	May 13/24	6.4	μg/L	No
Arsenic – Q3	Aug 12/24	6.3	μg/L	No
Arsenic – Q4	Nov 11/24	5.6	μg/L	No
Barium	Aug 12/24	65	μg/L	No
Boron	Aug 12/24	ND	μg/L	No
Cadmium	Aug 12/24	ND	μg/L	No
Chromium	Aug 12/24	ND	μg/L	No
Mercury	Aug 12/24	ND	μg/L	No
Selenium	Aug 12/24	ND	μg/L	No
Sodium	Aug 15/23	16.9	mg/L	No
Uranium	Aug 12/24	ND	μg/L	No
Fluoride	Aug 15/23	0.939	mg/L	No
Nitrite – Q1	Feb 12/24	ND	mg/L	No
Nitrite – Q2	May 13/24	ND	mg/L	No
Nitrite – Q3	Aug 12/24	ND	mg/L	No
Nitrite – Q4	Nov 11/24	ND	mg/L	No
Nitrate – Q1	Feb 12/24	ND	mg/L	No



Nitrate – Q2	May 13/24	ND	mg/L	No
Nitrate – Q3	Aug 12/24	ND	mg/L	No
Nitrate – Q4	Nov 11/24	ND	mg/L	No

ND = Not detected

## Inorganic Testing – Well 5

Summary of Inorganic parameters tested during this reporting period or the most recent sample results					
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	
Antimony	Aug 12/24	ND	μg/L	No	
Arsenic	Aug 12/24	5.0	µg/L	No	
Barium	Aug 12/24	72	μg/L	No	
Boron	Aug 12/24	50	μg/L	No	
Cadmium	Aug 12/24	ND	μg/L	No	
Chromium	Aug 12/24	ND	μg/L	No	
Mercury	Aug 12/24	ND	μg/L	No	
Selenium	Aug 12/24	ND	μg/L	No	
Sodium	Aug 15/23	18.3	mg/L	No	
Uranium	Aug 12/24	ND	μg/L	No	
Fluoride	Aug 15/23	0.944	mg/L	No	
Nitrite – Q1	Feb 12/24	ND	mg/L	No	
Nitrite – Q2	May 13/24	ND	mg/L	No	
Nitrite – Q3	Aug 12/24	ND	mg/L	No	
Nitrite – Q4	Nov 11/24	ND	mg/L	No	
Nitrate – Q1	Feb 12/24	ND	mg/L	No	
Nitrate – Q2	May 13/24	ND	mg/L	No	
Nitrate – Q3	Aug 12/24	ND	mg/L	No	
Nitrate – Q4	Nov 11/24	ND	mg/L	No	

ND = Not detected



# Inorganic Testing – Well 6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Aug 12/24	ND	μg/L	No
Arsenic	Aug 12/24	3.6	μg/L	No
Barium	Aug 12/24	95	μg/L	No
Boron	Aug 12/24	60	μg/L	No
Cadmium	Aug 12/24	ND	μg/L	No
Chromium	Aug 12/24	ND	μg/L	No
Mercury	Aug 12/24	ND	μg/L	No
Selenium	Aug 12/245	ND	μg/L	No
Sodium	Aug 15/23	18.4	mg/L	No
Uranium	Aug 12/24	ND	μg/L	No
Fluoride	Aug 15/23	1.30	mg/L	No
Nitrite – Q1	Feb 12/24	ND	mg/L	No
Nitrite – Q2	May 13/24	ND	mg/L	No
Nitrite – Q3	Aug 12/24	ND	mg/L	No
Nitrite – Q4	Dec 10/24	ND	mg/L	No
Nitrate – Q1	Feb 12/24	ND	mg/L	No
Nitrate – Q2	May 13/24	ND	mg/L	No
Nitrate – Q3	Aug 12/24	ND	mg/L	No
Nitrate – Q4	Dec 10/24	ND	mg/L	No

ND = Not detected



#### Lead Testing Results

Summary of Lead Results during this reporting period (Winter: Dec 15 – April 15; Summer: June 15 - Oct 15)					
Sampling Period	Location	рН	Alkalinity (mg/L)	Lead (ug/L)	Exceedance
Feb 12/24	Distribution – Palace St. E Blow Off	8.40	232	N/A	No
Feb 12/24	Distribution – Community Garden Blow Off	8.35	229	N/A	No
Feb 12/24	Distribution – 755 Scott St. E Blow Off	8.37	231	N/A	No
Aug 12/24	Distribution – Palace St. E Blow Off	7.24	218	N/A	No
Aug 12/24	Distribution – Community Garden Blow Off	7.19	223	N/A	No
Aug 12/24	Distribution – 755 Scott St. E Blow Off	7.33	220	N/A	No

Listowel qualified for reduced Lead sampling in 2024

## **Organic Testing – Well 4**

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Aug 12/24	ND	μg/L	No
Atrazine + N-dealkylated metobolites	Aug 12/24	ND	μg/L	No
Azinphos-methyl	Aug 12/24	ND	μg/L	No
Benzene	Aug 12/24	ND	μg/L	No
Benzo(a)pyrene	Aug 12/24	ND	μg/L	No
Bromoxynil	Aug 12/24	ND	μg/L	No



Summary of Organic parameters tested during this reporting period or the most recent sample results					
Carbaryl	Aug 12/24	ND	μg/L	No	
Carbofuran	Aug 12/24	ND	μg/L	No	
Carbon Tetrachloride	Aug 12/24	ND	μg/L	No	
Chlorpyrifos	Aug 12/24	ND	μg/L	No	
Diazinon	Aug 12/24	ND	μg/L	No	
Dicamba	Aug 12/24	ND	μg/L	No	
1,2-Dichlorobenzene	Aug 12/24	ND	μg/L	No	
1,4-Dichlorobenzene	Aug 12/24	ND	μg/L	No	
1,2-Dichloroethane	Aug 12/24	ND	μg/L	No	
1,1-Dichloroethylene	Aug 12/24	ND	μg/L	No	
(vinylidene chloride)					
Dichloromethane	Aug 12/24	ND	μg/L	No	
2-4 Dichlorophenol	Aug 12/24	ND	μg/L	No	
2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 12/24	ND	μg/L	No	
Diclofop-methyl	Aug 12/24	ND	μg/L	No	
Dimethoate	Aug 12/24	ND	μg/L	No	
Diquat	Aug 12/24	ND	μg/L	No	
Diuron	Aug 12/24	ND	μg/L	No	
Glyphosate	Aug 12/24	ND	μg/L	No	
HAA (running annual average)	2024	7.65	μg/L	No	
Malathion	Aug 12/24	ND	μg/L	No	
Metolachlor	Aug 12/24	ND	μg/L	No	
Metribuzin	Aug 12/24	ND	μg/L	No	
Monochlorobenzene	Aug 12/24	ND	μg/L	No	
Paraquat	Aug 12/24	ND	μg/L	No	
Pentachlorophenol	Aug 12/24	ND	μg/L	No	
Phorate	Aug 12/24	ND	μg/L	No	
Picloram	Aug 12/24	ND	μg/L	No	
Polychlorinated Biphenyls(PCB)	Aug 12/24	ND	μg/L	No	
Prometryne	Aug 12/24	ND	μg/L	No	
Simazine	Aug 12/24	ND	μg/L	No	
THM (running annual average)	2024	14.95	μg/L	No	
Terbufos	Aug 12/24	ND	μg/L	No	
Tetrachloroethylene	Aug 12/24	ND	μg/L	No	
2,3,4,6-Tetrachlorophenol	Aug 12/24	ND	μg/L	No	
Triallate	Aug 12/24	ND	μg/L	No	
Trichloroethylene	Aug 12/24	ND	μg/L	No	
2,4,6-Trichlorophenol	Aug 12/24	ND	μg/L	No	



Summary of Organic parameters tested during this reporting period or the most recent sample results				
Trifluralin	Aug 12/24	ND	μg/L	No
Vinyl Chloride	Aug 12/24	ND	μg/L	No
2 methyl-4-chlorophenoxyacetic acid (MCPA) Reported as MCPA on analysis	Aug 12/24	ND	µg/L	No

\*ND = Not detected

## **Organic Testing – Well 5**

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Aug 12/24	ND	μg/L	No
Atrazine + N-dealkylated	Aug 12/24	ND	μg/L	No
metobolites	Aug 12/24	ND		Nia
Azinphos-methyl	Aug 12/24	ND	μg/L	No
Benzene	Aug 12/24	ND	μg/L	No
Benzo(a)pyrene	Aug 12/24	ND	μg/L	No
Bromoxynil	Aug 12/24	ND	μg/L	No
Carbaryl	Aug 12/24	ND	μg/L	No
Carbofuran	Aug 12/24	ND	μg/L	No
Carbon Tetrachloride	Aug 12/24	ND	μg/L	No
Chlorpyrifos	Aug 12/24	ND	μg/L	No
Diazinon	Aug 12/24	ND	μg/L	No
Dicamba	Aug 12/24	ND	μg/L	No
1,2-Dichlorobenzene	Aug 12/24	ND	μg/L	No
1,4-Dichlorobenzene	Aug 12/24	ND	μg/L	No
1,2-Dichloroethane	Aug 12/24	ND	μg/L	No
1,1-Dichloroethylene	Aug 12/24	ND	μg/L	No
(vinylidene chloride)				
Dichloromethane	Aug 12/24	ND	μg/L	No
2-4 Dichlorophenol	Aug 12/24	ND	μg/L	No
2,4-Dichlorophenoxy acetic acid	Aug 12/24	ND	μg/L	No
(2,4-D)				
Diclofop-methyl	Aug 12/24	ND	μg/L	No
Dimethoate	Aug 12/24	ND	μg/L	No
Diquat	Aug 12/24	ND	μg/L	No
Diuron	Aug 12/24	ND	μg/L	No



Summary of Organic parameters tested during this reporting period or the most recent				
sample results				
Glyphosate	Aug 12/24	ND	μg/L	No
HAA (running annual average)	2024	7.65	μg/L	No
Malathion	Aug 12/24	ND	μg/L	No
Metolachlor	Aug 12/24	ND	μg/L	No
Metribuzin	Aug 12/24	ND	μg/L	No
Monochlorobenzene	Aug 12/24	ND	μg/L	No
Paraquat	Aug 12/24	ND	μg/L	No
Pentachlorophenol	Aug 12/24	ND	μg/L	No
Phorate	Aug 12/24	ND	μg/L	No
Picloram	Aug 12/24	ND	μg/L	No
Polychlorinated Biphenyls(PCB)	Aug 12/24	ND	μg/L	No
Prometryne	Aug 12/24	ND	μg/L	No
Simazine	Aug 12/24	ND	μg/L	No
THM (running annual average)	2024	14.95	μg/L	No
Terbufos	Aug 12/24	ND	μg/L	No
Tetrachloroethylene	Aug 12/24	ND	μg/L	No
2,3,4,6-Tetrachlorophenol	Aug 12/24	ND	μg/L	No
Triallate	Aug 12/24	ND	μg/L	No
Trichloroethylene	Aug 12/24	ND	μg/L	No
2,4,6-Trichlorophenol	Aug 12/24	ND	μg/L	No
Trifluralin	Aug 12/24	ND	μg/L	No
Vinyl Chloride	Aug 12/24	ND	μg/L	No
2 methyl-4-chlorophenoxyacetic acid (MCPA) Reported as MCPA on analysis	Aug 12/24	ND	µg/L	No

\*ND = Not detected

## **Organic Testing – Well 6**

Summary of Organic parameters tested during this reporting period or the most recent sample results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Aug 12/24	ND	μg/L	No
Atrazine + N-dealkylated metobolites	Aug 12/24	ND	μg/L	No
Azinphos-methyl	Aug 12/24	ND	μg/L	No
Benzene	Aug 12/24	ND	μg/L	No



Summary of Organic parameters tested during this reporting period or the most recent sample results					
Benzo(a)pyrene	Aug 12/24	ND	μg/L	No	
Bromoxynil	Aug 12/24	ND	μg/L	No	
Carbaryl	Aug 12/24	ND	μg/L	No	
Carbofuran	Aug 12/24	ND	μg/L	No	
Carbon Tetrachloride	Aug 12/24	ND	μg/L	No	
Chlorpyrifos	Aug 12/24	ND	μg/L	No	
Diazinon	Aug 12/24	ND	μg/L	No	
Dicamba	Aug 12/24	ND	μg/L	No	
1,2-Dichlorobenzene	Aug 12/24	ND	μg/L	No	
1,4-Dichlorobenzene	Aug 12/24	ND	μg/L	No	
1,2-Dichloroethane	Aug 12/24	ND	μg/L	No	
1,1-Dichloroethylene	Aug 12/24	ND	μg/L	No	
(vinylidene chloride)					
Dichloromethane	Aug 12/24	ND	μg/L	No	
2-4 Dichlorophenol	Aug 12/24	ND	μg/L	No	
2,4-Dichlorophenoxy acetic acid	Aug 12/24	ND	μg/L	No	
(2,4-D)					
Diclofop-methyl	Aug 12/24	ND	μg/L	No	
Dimethoate	Aug 12/24	ND	μg/L	No	
Diquat	Aug 12/24	ND	μg/L	No	
Diuron	Aug 12/24	ND	μg/L	No	
Glyphosate	Aug 12/24	ND	μg/L	No	
HAA (running annual average)	2024	7.65	μg/L	No	
Malathion	Aug 12/24	ND	μg/L	No	
Metolachlor	Aug 12/24	ND	μg/L	No	
Metribuzin	Aug 12/24	ND	μg/L	No	
Monochlorobenzene	Aug 12/24	ND	μg/L	No	
Paraquat	Aug 12/24	ND	μg/L	No	
Pentachlorophenol	Aug 12/24	ND	μg/L	No	
Phorate	Aug 12/24	ND	μg/L	No	
Picloram	Aug 12/24	ND	μg/L	No	
Polychlorinated Biphenyls(PCB)	Aug 12/24	ND	μg/L	No	
Prometryne	Aug 12/24	ND	μg/L	No	
Simazine	Aug 12/24	ND	μg/L	No	
THM (running annual average)	2024	14.95	μg/L	No	
Terbufos	Aug 12/24	ND	μg/L	No	
Tetrachloroethylene	Aug 12/24	ND	μg/L	No	
2,3,4,6-Tetrachlorophenol	Aug 12/24	ND	μg/L	No	
Triallate	Aug 12/24	ND	μg/L	No	



Summary of Organic parameters tested during this reporting period or the most recent sample results				
Trichloroethylene	Aug 12/24	ND	μg/L	No
2,4,6-Trichlorophenol	Aug 12/24	ND	μg/L	No
Trifluralin	Aug 12/24	ND	μg/L	No
Vinyl Chloride	Aug 12/24	ND	μg/L	No
2 methyl-4-chlorophenoxyacetic	Aug 12/24	ND	μg/L	No
acid (MCPA) Reported as MCPA				
on analysis				

\*ND = Not detected

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Schedule 2 of Official o Difficing Water Quality Standards.							
Parameter	Sample Date	Result Value	Unit of Measure	ODWS Standard			
Fluoride – Well 4	Aug 15/23	0.939	mg/L	1.5			
Fluoride – Well 5	Aug 15/23	0.944	mg/L	1.5			
Fluoride – Well 6	Aug 15/23	1.30	mg/L	1.5			
Arsenic – Q1 – Well 4	Feb 12/24	5.8	μg/L	10			
Arsenic – Q2 – Well 4	May 13/24	6.4	μg/L	10			
Arsenic – Q3 – Well 4	Aug 12/24	6.3	μg/L	10			
Arsenic – Q4 – Well 4	Nov 11/24	5.6	μg/L	10			

**Note:** Fluoride is naturally occurring in the Listowel Drinking Water Supply. For more information on fluoride visit Huron Perth Public Health Unit at: <a href="https://www.hpph.ca/health-topics/oral-health/">https://www.hpph.ca/health-topics/oral-health/</a>



## Part 2 – SUMMARY REPORT (as required by O. Reg. 170/03, Schedule 22)

Non-Compliance with Legislations,	Regulations, Approvals	& Orders						
The Listowel Drinking Water System following Acts and Regulations:	-	st operate in accordance with, the						
Safe Drinking Water Act 200								
○ O. Reg 128/04 – Cert	Certification of Drinking Water System Operators							
<ul> <li>O. Reg 170/03 – Drin</li> </ul>	king Water Systems							
<ul> <li>O. Reg 169/03 – Onta</li> </ul>	<ul> <li>O. Reg 169/03 – Ontario Drinking Water Quality Standards</li> </ul>							
Environmental Protection A	ct, where applicable;							
• Clean Water Act, where app	licable;							
Municipal Drinking Water Li	cence - 091-103;							
• Drinking Water Works Perm	it - 091-203;							
• Permit to Take Water – P-30	00-5141584896							
During this period, the Facility was on the Facility's license and permit save	•	ce with the Act, the regulations and owing:						
Requirement	Duration of Failure	Measures to Correct the Failure						
There were no non-compliances in 2024.	I							



# System Capability

WELL 4						
Month	Average Flow (m <sup>3</sup> /d)	Maximum Flow (m <sup>3</sup> /d)	Total Monthly Flow (m³/d)	Maximum Flow Rate (L/min)	System Capacity	Approved Flow Rate
January	779.00	930.00	21144.00	1999.39		
February	793.00	843.00	23008.00	2001.47		
March	780.00	916.00	24167.00	2035.35		
April	855.00	1520.00	25640.00	2040.00		
May	847.00	1237.00	26242.00	1998.56	3,273.1 m³/day	
June	935.00	1465.00	28060.00	1994.87		2,273 L/min
July	887.00	1070.00	27496.00	1995.08		
August	833.00	1083.00	25828.00	1995.37		
September	859.00	1027.00	25765.00	1994.05		
October	1001.00	1795.00	31020.00	1998.44		
November	1196.00	1369.00	35879.00	2001.77		
December	810.00	1228.00	25121.00	1997.62		
Average	881.25		26614.17	2004.33		
Maximum		1795.00	35879.00	2040.00		
% of Capacity	23.31	54.29				



WELL 5						
Month	Average Flow (m <sup>3</sup> /d)	Maximum Flow (m <sup>3</sup> /d)	Total Monthly Flow (m³/d)	Maximum Flow Rate (L/min)	System Capacity	Approved Flow Rate
January	770.00	915.00	23869.00	2012.74		
February	782.00	845.00	22693.00	2000.47		2,273 L/min
March	763.00	901.00	23644.00	2019.90		
April	837.00	1485.00	25102.00	2005.17		
May	829.00	1181.00	25713.00	1988.08	3,273.1 m³/day	
June	901.00	1380.00	27026.00	1973.24		
July	859.00	1083.00	26622.00	2017.54		
August	830.00	1062.00	25738.00	2031.33		
September	844.00	1007.00	25312.00	2017.54		
October	986.00	1750.00	30756.00	2022.06		
November	1158.00	1417.00	34748.00	2020.83		
December	799.00	1182.00	24763.00	2002.28		
Average	863.17		26332.17	2009.27		
Maximum		1750.00	34748.00	2031.33		
% of Capacity	26.37	53.47				



WELL 6						
Month	Average Flow (m <sup>3</sup> /d)	Maximum Flow (m <sup>3</sup> /d)	Total Monthly Flow (m³/d)	Maximum Flow Rate (L/min)	System Capacity	Approved Flow Rate
January	769.00	927.00	23829.00	1990.51		
February	795.00	843.00	23059.00	1987.56		2,273 L/min
March	775.00	913.00	24028.00	2039.80		
April	850.00	1499.00	25506.00	2031.11		
May	844.00	1229.00	26161.00	1990.60	3,273.1 m³/day	
June	728.00	1049.00	21844.00	1981.85		
July	853.00	1049.00	26448.00	1964.42		
August	826.00	1073.00	25619.00	1967.81		
September	852.00	1019.00	2552.00	1972.06		
October	556.00	1790.00	18464.00	1972.59		
November	0	0	0	0		
December	759.00	885.00	23520.00	1985.14		
Average	717.25		20085.83	1823.62		
Maximum		1790.00	26448.00	2039.80		
% of Capacity	21.91	54.69				



Month	Average Flow (m <sup>3</sup> /d)	Maximum Flow (m <sup>3</sup> /d)	Total Monthly Flow (m <sup>3</sup> )	System Capacity	Approved Flow Rate
January	2317.00	2772.00	71842.00		
February	2371.00	2523.00	68759.00		
March	2317.00	2725.00	71839.00		
April	2541.00	4504.00	76248.00		
May	2520.00	3647.00	78116.00	9,819 m³/day	Well 4: 2,273 L/min Well 5: 2,273 L/min Well 6: 2,273 L/min
June	2564.00	3110.00	76930.00		
July	2599.00	3107.00	80566.00		
August	2490.00	3218.00	77185.00		
September	2554.00	3053.00	76629.00		
October	2583.00	5335.00	80060.00		
November	2354.00	2662.00	70627.00		
December	2368.00	2642.00	73404.00		
Average	2464.83		75183.75		
Maximum		5335.00	80566.00		
% of Capacity	25.10	54.33			