

# 2024 Annual Drinking Water System Summary Report

## **Airport Drinking Water System**



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# 1. General Information

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The County of Brant prepares a report summarizing system operation and water quality for every municipal drinking water system annually. The reports detail the latest water quality testing results, water quantity statistics and any adverse conditions that may have occurred for the previous year, January 1 through December 31. They are available on March 31 on the County website at [www.brant.ca/en/water-services/water-services.aspx](http://www.brant.ca/en/water-services/water-services.aspx) or by contacting the County of Brant Operations Department.

All efforts have been made to ensure the information presented in this report is accurate. If you have any questions or comments concerning the report, please contact the County at the address and phone number listed below or by email at [operations@brant.ca](mailto:operations@brant.ca).

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Drinking Water System:	<b>Airport Drinking Water System</b>
Drinking Water System Number:	<b>220002743</b>
Reporting Period:	<b>January 1, 2024 – December 31, 2024</b>

Drinking Water System Owner & Contact Information:

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## 1.1 System Description

Located at 9 Airport Road the Airport Drinking Water System is a Large Municipal Drinking Water System as defined by Ontario Regulation (O.Reg.) 170/03. This Airport Drinking Water System has one (1) pressure zone, 11 kilometers of watermain, 286 residential service connections, 29 commercial service connections and serves a population of approximately 800 people.

The Airport Drinking Water System consists of two (2) drilled wells completed in the overburden equipped with vertical turbine pumps. Well #1 is capable of pumping 27.3 L/s and Well #2 is capable of pumping 30.8 L/s. Chlorine disinfection is provided to the treatment system through a sodium hypochlorite dosing system and a baffled water contact tank with a capacity of 50.6 m<sup>3</sup>. Water storage is provided by the on-site elevated tank with a maximum capacity of 1600 m<sup>3</sup>. Emergency standby power is provided to the entire station via a diesel motor powered generator.

## 1.2 Major Expenses

In 2024 the Airport Drinking Water System had operating and maintenance expenditures of approximately \$141,000. In addition to regular operational and maintenance expenditures, the Airport Drinking Water System incurred capital costs for SCADA maintenance and upgrades. These upgrades totalled \$115,000 and were cost shared amongst all five (5) Municipal Drinking Water Systems.

## 2. Aquifer Monitoring

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This section documents the key aspects of the Airport Drinking Water Systems (DWS's) groundwater system including details about the source aquifer monitoring, groundwater quantity and groundwater quality. Groundwater monitoring is completed in accordance with Ministry of the Environment, Conservation and Parks (MECP) approvals and to meet all applicable provincial regulations. In addition to the regulatory monitoring the County implements a due diligence monitoring program in support of the groundwater management strategy and source water protection initiatives.

### 2.1 Wellfield and Monitoring Program

The Airport DWS consists of one (1) groundwater wellfield, which contains two (2) production wells that terminate in the upper confined aquifer (Well 1 and Well 2). The due diligence water monitoring program consists of a total of 11 monitoring wells located at five (5) locations. This program monitors both the water quantity and quality of the groundwater resource as delineated by the wellhead protection areas outlined in the Source Protection Plan.

The due diligence monitoring program consists of monthly water level measurements and the collection of semi-annual groundwater samples for analysis of nitrates, nitrite, chloride and sulphate. The purpose of the due diligence monitoring is to detect potential water quality and quantity threats to the groundwater resource as it is occurring in an effort to mitigate the risk before it becomes an irreversible threat.

### 2.2 Groundwater Quantity

Based on the water level, precipitation and pumping data, pumping from the production wells at the Airport DWS has not resulted in long-term changes to groundwater levels or hydraulic gradients measured at the monitoring wells. Groundwater levels fluctuated seasonally in 2024 and remained within the historical ranges. No complaints have been received by the County regarding the operation of the wells interfering with neighbouring wells or surface water features. Overall, the Airport DWS has not had a negative impact on the groundwater resource.

### 2.3 Groundwater Quality

The 2024 groundwater quality data at the groundwater monitoring wells were consistent with historical results and remained below the Ontario Drinking Water Quality Standards (ODWQS). Nitrate (as N) concentrations were below ODWQS of 10.0 mg/L and ranged between 1 mg/L and 5 mg/L. Chloride concentrations were below the ODWQS of 250 mg/L and have remained generally stable at concentrations below 50 mg/L. Sulphate concentrations were below the ODWQS of 500 mg/L and have remained generally stable at concentrations below 100 mg/L.

## 3. Microbiological Testing

### 3.1 E. coli, Total Coliform, Background (BKG)

Bacteriological tests for E. coli and total coliforms are required weekly from the raw and treated water at the facility and from the distribution system. Extra samples are taken after major repairs or maintenance work. Any E. coli or total coliform results above zero (0) in treated water samples must be reported to the Ministry of Environment, Conservation and Parks (MECP) and Medical Officer of Health (MOH). Resamples and any other required actions are taken as quickly as possible.

Bacteriological tests for BKG bacteria are not regulatory but are done as a due diligence action. Background tests are an indicator of the general bacteria population in a water sample. Background bacteria should be less than 200 colonies per 1 mL. Results over 200 colonies per 1 mL may indicate a change in water quality but it is not considered an indicator of unsafe water.

Sample Location	# of Samples	Range of E. coli Results (cfu/100ml)	Range of Total Coliform Results (cfu/100ml)	Range of BKG Results (cfu/100ml)
Raw Well #1	53	0-0	0-0	0-62
Raw Well #2	53	0-0	0-0	0-0
Treated	53	0-0	0-0	0-0
Distribution	162	0-0	0-260*	0-700

\* In 2024 the Airport Drinking Water System had one (1) reported Adverse Water Quality Incident (AWQI) from the 215 treated water samples in this reporting period. The AWQI occurred on a distribution sample and the details of this incident are outlined below in section 7.2.

### 3.2 Heterotrophic Plate Count (HPC)

HPC analyses are required from the treated and distribution water. The tests are required weekly for treated water and for 25% of the required distribution system bacteriological samples. HPC tests are conducted on all raw, treated and distribution samples for due diligence. HPC should be less than 500 colonies per 1 mL. Results over 500 colonies per 1 mL may indicate a change in water quality but it is not considered an indicator of unsafe water.

The results from the 2024 sampling program are shown in the table below.

Sample Location	# of Samples	Range of HPC Results (cfu/1ml)
Raw Well #1	53	0-110
Raw Well #2	53	0-30
Treated	53	0-850
Distribution	162	0-530

## 4. Chemical Testing

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The Safe Drinking Water Act requires periodic testing of the water for approximately 60 different chemical parameters. The latest results for all parameters are provided in Appendix A. The sampling frequency varies for different types and sizes of water systems and chemical parameters. If the concentration of a parameter is above half of the Maximum Allowable Concentration (MAC) under the Ontario Drinking Water Quality Standards, an increased testing frequency of once every three (3) months is required by the Regulation. Where concerns regarding a parameter exist, the MECP may also require additional sampling to be undertaken.

Information on the health effects and allowable limits of components in drinking water may be found on the MECP web page through the link provided in Appendix A. Additional information on common chemical parameters specific to the Airport Drinking Water System is provided below.

### 4.1 Sodium

Sodium levels in drinking water are tested once every five (5) years. The aesthetic objective is 200 mg/L meaning at levels less than this the sodium will not impair the taste of the water. When sodium levels are above 20 mg/L the MECP and MOH are notified.

The last sodium sample taken in the Airport Drinking Water System was in 2023 and had a result of 17 mg/L.

### 4.2 Hardness

Hardness is an aesthetic parameter that may affect the appearance of the water but is not related to health. Groundwater commonly has high levels of hardness and other minerals from being in contact with geological substrate. Many households have water softeners to help reduce white calcium deposits and improve the efficiency of soaps. This information is included here to help set the water softener at the level recommended by the manufacturer. Samples for hardness are collected at a minimum every three (3) years from raw water.

The hardness of the wells was tested in 2024 and ranged from 270 - 310 mg/L (15.8 – 18.13 grains/gallon).

### 4.3 Additional Testing Required by MECP

No additional testing is required by the latest Municipal Drinking Water License for this system.

## 5. Operational Monitoring

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### 5.1 Chlorine Residual

Free chlorine levels of the treated water are monitored continuously at the discharge point of the Water Treatment Facility. In the distribution system, free chlorine is measured daily at various locations. As a critical control limit, free chlorine residual within the distribution system should be above 0.3 mg/L. A free chlorine level lower than 0.05 mg/L must be reported and corrective action taken. There were no reportable incidents in 2024. A summary of the chlorine residual readings is provided in the table below.

Sample Location	Number of Samples or Monitoring Frequency	Range of Results (mg/L)
Treated – Discharge Point	Continuous	0.71-1.64
Distribution	585	0.50-1.20

### 5.2 Turbidity

Turbidity of treated water is continuously monitored at the treatment facilities as a change in turbidity can indicate an operational problem. As a minimum, turbidity for each well is required to be tested monthly. Turbidity is measured in nephelometric turbidity units (NTU). Under O.Reg. 170/03 turbidity in groundwater from a secure well or a well with effective in-situ filtration is not reportable however turbidity should be < 1 NTU at the treatment plant and < 5 NTU in the distribution system. A summary of the monitoring results for 2024 are provided in the table below.

Sample Location	Number of Samples	Range of Results (NTU)
Well #1 - Raw Manual	15	0.08-0.17
Well #2 - Raw Manual	15	0.09-0.19

## 6. Water Quantity

Continuous monitoring of flow rates from supply wells into the treatment system and from the Water Treatment Facility into the distribution system is required by O.Reg. 170/03.

The Municipal Drinking Water License and Permit to Take Water (PTTW) issued by the MECP regulate the amount of water that can be taken and treated over a given time period. A summary of the 2024 flows are provided in the tables below and presented graphically in Appendix B.

<b>Permit to Take Water (m<sup>3</sup>/day)</b>	<b>2024 Max Daily Taking (m<sup>3</sup>/day)</b>	<b>2024 Average Daily Taking (m<sup>3</sup>/day)</b>	<b>2024 Total Yearly Taking (m<sup>3</sup>/year)</b>
5,020	579	239	87,590

Pumping from the Airport DWS was conducted in compliance with the maximum daily taking volumes permitted by the Permit to Take Water (PTTW) of 5,020 m<sup>3</sup>/day. A total of 87,590 m<sup>3</sup> of groundwater was pumped from the production wells in 2024, which represents 5% of the allowable annual water taking, and the maximum daily taking was 579 m<sup>3</sup>, which represents nearly 12% of the allowable daily water taking. The Airport Drinking Water System has available water takings to support future growth in this community.

<b>Municipal Drinking Water Licence (m<sup>3</sup>/day)</b>	<b>2024 Max Daily Flow (m<sup>3</sup>/day)</b>	<b>2024 Average Daily Flow (m<sup>3</sup>/day)</b>	<b>2024 Total Yearly Flow (m<sup>3</sup>/year)</b>
5,020	579	239	87,590

The Municipal Drinking Water License (MDWL) Rated Capacity for the Airport Drinking Water System is 5,020 m<sup>3</sup>/day. A total of 87,590 m<sup>3</sup> of water was supplied by the Airport Drinking Water System in 2024, which represents nearly 5% of the MDWL Rated Capacity. The maximum daily flow in 2024 was 579 m<sup>3</sup>/day, which represents nearly 12% of the MDWL Rated Capacity and the average daily flow of 239 m<sup>3</sup>/day is nearly 5% of the MDWL Rated Capacity. The Airport Drinking Water System has available supply capacity to support future growth in this community.

## 7. Non-Compliance Findings and Adverse Results

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This section documents any known incidents of non-compliance or adverse results and the associated correction actions taken to resolve the issue. Non-compliance issues are typically identified by either the Operating Authority or the MECP Drinking Water Inspectors. The issues and associated required actions are documented by the Inspectors in the system's Annual Inspection Report. All non-compliance issues are investigated, corrective actions taken and documented using the County's Drinking Water Quality Management System (DWQMS) procedures.

### 7.1 Non-Compliance Findings

An MECP drinking water system inspection was conducted on May 2, 2024. There were no Non-Compliance findings from the inspection and the County received a Final Inspection Rating from the MECP of 100%.

### 7.2 Adverse Results

Any adverse results from bacteriological, chemical samples or observations of operational conditions that indicate adverse water quality are reported as required and corrective actions are taken.

On August 22, 2024, the County received notice of an Adverse Water Quality Incident (AWQI) in the distribution system. The reported results from the sample location were 260 CFU of Total Coliform. O. Reg. 170/03 and County procedures were followed immediately, the County notified the Grand Erie Public Health (formerly Brant County Health Unit) and the MECP Spills Action Center. Chlorination was increased at the Water Treatment Plant; the area was thoroughly flushed, and an adequate chlorine residual was maintained in the water distribution system. A resample from the AWQI location, as well as the closest upstream and downstream sample points were taken on August 22, 2024. All three (3) sample results were reported to have 0 CFU of Total Coliform.

# Appendix A: Summary of Chemical Results

## Understanding Chemical Test Results

The following tables summarize the laboratory results of the chemical testing the County is required to complete. Parameters are required to be tested at frequencies as noted below. Explanations on the health impacts of these parameters can be found in the MECP document PSIB 4449e01 titled "Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines" available at [https://cvc.ca/wp-content/uploads/2011/03/std01\\_079707.pdf](https://cvc.ca/wp-content/uploads/2011/03/std01_079707.pdf).

Results are shown as concentrations with units of either milligrams per litre (mg/L) or micrograms per litre (µg/L). 1 mg/L is equal to 1000 µg/L. The Maximum Acceptable Concentration (MAC) is the highest amount of a parameter that is acceptable in Municipal drinking water and can be found in the MECP Drinking Water Standards. The aesthetic objective (A/O) is established for parameters that may impair the taste, odour or colour of water or which may interfere with good quality control practices. For parameters that have no MAC or A/O established by the Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines will be denoted with a "-". A result of "ND" stands for "Not Detected" and means that the concentration of the chemical is lower than level that the laboratory equipment is capable of measuring.

**Table 1 – Nitrite and Nitrate**

Nitrate and nitrite samples are required every three (3) months from the treatment system in normal operation.

Parameter	Sample Date (mm/dd/yy)	Result (mg/L)	MAC (mg/L)	Exceedance
Nitrite (as N)	02/02/24	ND	1.0	No
	05/01/24	ND	1.0	No
	08/09/24	ND	1.0	No
	11/05/24	ND	1.0	No
Nitrate (as N)	02/02/24	0.42	10.0	No
	05/01/24	0.37	10.0	No
	08/09/24	1.88	10.0	No
	11/05/24	0.72	10.0	No

**Table 2 – Trihalomethane and Haloacetic Acids**

Trihalomethane (THM) and total Haloacetic Acids (HAA) are by-products of the disinfection process. The samples are required every three (3) months from the distribution system.

Parameter	Sample Location	Sample Date (mm/dd/yy)	Result (mg/L)	MAC (mg/L)	Exceedance
THM	37 Isabel Drive Greens Rd STN HYD 1-1027 HYD 1-038	02/02/24	9.38	100	No
		05/02/24	10.2	100	No
		08/09/24	9.16	100	No
		11/06/24	6.69	100	No
HAA	37 Isabel Drive Greens Rd STN HYD 1-1027 HYD 1-038	02/02/24	ND	80	No
		05/02/24	ND	80	No
		08/09/24	ND	80	No
		11/06/24	ND	80	No

### Table 3 – Sodium and Fluoride

Testing of fluoride and sodium is required every 5 years from the treatment system.

Parameter	Sample Date (mm/dd/yy)	Result (mg/L)	MAC (mg/L)	A/O (mg/L)	Exceedance
Fluoride	01/05/23	0.11	1.5	-	No**
Sodium	01/05/23	17	20	200	No*

\*Sodium levels between 20 – 200 mg/L must be reported every 5 years.

\*\*Natural levels of fluoride between 1.5 – 2.4 mg/L must be reported every 5 years.

### Table 4 – Alkalinity, pH and Lead

The following Table summarizes the most recent results for the Lead Testing Program, having been conducted in 2024. Lead samples are taken every three (3) years from the distribution system. Levels of alkalinity and pH are monitored twice per year in the distribution system to ensure water quality is consistent and does not facilitate leaching of lead into the water.

Parameter	Number of Samples	Result Range (Min – Max)	MAC	A/O	Operational Target	Exceedance
Distribution Alkalinity (mg/L)	4	210-210	-	-	30-500	-
Distribution pH	4	8.01-8.27	-	6.5-8.5	-	-
Distribution Lead (ug/L)	N/A	N/A	10	-	-	N/A

### Table 5 – Schedule 23 Inorganic Parameters

The following Table summarizes the most recent test results for Schedule 23. Testing is required every three (3) years for the secure, non-GUDI wells in the Airport Drinking Water System.

Parameter	Sample Date (mm/dd/yy)	Result	Unit of Measure	MAC	A/O	Exceedance
Antimony	01/05/23	ND	mg/L	0.006	-	No
Arsenic	01/05/23	ND	mg/L	0.01	-	No
Barium	01/05/23	0.14	mg/L	1.0	-	No
Boron	01/05/23	0.014	mg/L	5.0	-	No
Cadmium	01/05/23	ND	mg/L	0.005	-	No
Chromium	01/05/23	ND	mg/L	0.05	-	No
Mercury	01/05/23	ND	mg/L	0.001	-	No
Selenium	01/05/23	ND	mg/L	0.05	-	No
Uranium	01/05/23	0.00031	mg/L	0.02	-	No

**Table 5 – Schedule 24 Organic Parameters**

The following Table summarizes the Organic parameters in Schedule 24 sampled during this reporting period or the most recent sample results. Testing is required every three (3) years for the secure, non-GUDI wells in the Airport Drinking Water System.

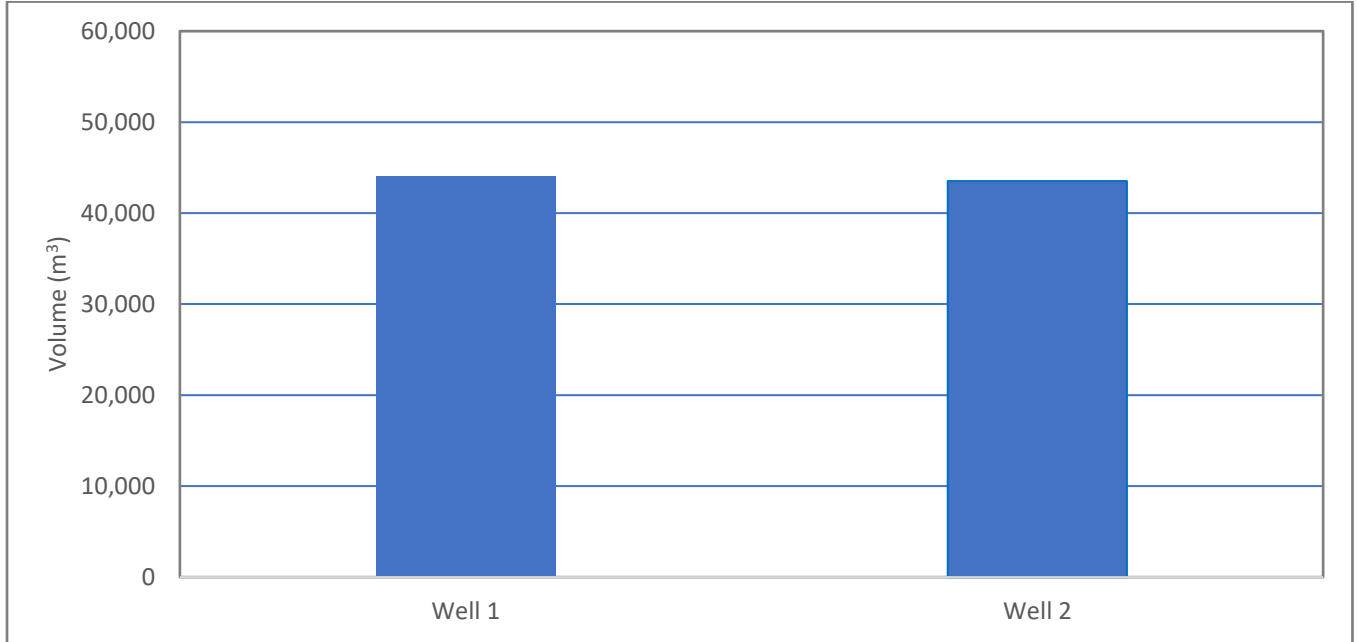
Parameter	Sample Date (mm/dd/yy)	Result Value	Unit of Measure	MAC	A/O	Exceedance
<b>1,1-Dichloroethylene</b>	01/05/23	ND	ug/L	14	-	No
<b>1,2-Dichlorobenzene</b>	01/05/23	ND	ug/L	200	-	No
<b>1,2-Dichloroethane</b>	01/05/23	ND	ug/L	5	-	No
<b>1,4-Dichlorobenzene</b>	01/05/23	ND	ug/L	5	-	No
<b>2,3,4,6-Tetrachlorophenol</b>	01/05/23	ND	ug/L	100	-	No
<b>2,4,6-Trichlorophenol</b>	01/05/23	ND	ug/L	5	-	No
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	01/05/23	ND	ug/L	100	-	No
<b>2-4 Dichlorophenol</b>	01/05/23	ND	ug/L	900	-	No
<b>Alachlor</b>	01/05/23	ND	ug/L	5	-	No
<b>Aroclor 1016</b>	01/05/23	ND	ug/L	-	-	-
<b>Aroclor 1221</b>	01/05/23	ND	ug/L	-	-	-
<b>Aroclor 1232</b>	01/05/23	ND	ug/L	-	-	-
<b>Aroclor 1242</b>	01/05/23	ND	ug/L	-	-	-
<b>Aroclor 1248</b>	01/05/23	ND	ug/L	-	-	-
<b>Aroclor 1254</b>	01/05/23	ND	ug/L	-	-	-
<b>Aroclor 1260</b>	01/05/23	ND	ug/L	-	-	-
<b>Atrazine</b>	01/05/23	ND	ug/L	-	-	-
<b>Atrazine + N-dealkylated metabolites (Atrazine+Desethyl-atrazine)</b>	01/05/23	ND	ug/L	5	-	No
<b>Benzene</b>	01/05/23	ND	ug/L	1	-	No
<b>Benzo(a)pyrene</b>	01/05/23	ND	ug/L	0.01	-	No
<b>Bromoxynil</b>	01/05/23	ND	ug/L	5	-	No
<b>Carbaryl</b>	01/05/23	ND	ug/L	90	-	No

Parameter	Sample Date (mm/dd/yy)	Result Value	Unit of Measure	MAC	A/O	Exceedance
Carbofuran	01/05/23	ND	ug/L	90	-	No
Carbon Tetrachloride	01/05/23	ND	ug/L	2	-	No
Chlorobenzene	01/05/23	ND	ug/L	80	-	No
Chlorpyrifos	01/05/23	ND	ug/L	90	-	No
Desethyl-atrazine	01/05/23	ND	ug/L	-	-	No
Diazinon	01/05/23	ND	ug/L	20	-	No
Dicamba	01/05/23	ND	ug/L	120	-	No
Diclofop-methyl	01/05/23	ND	ug/L	9	-	No
Dimethoate	01/05/23	ND	ug/L	20	-	No
Diquat	01/05/23	ND	ug/L	70	-	No
Diuron	01/05/23	ND	ug/L	150	-	No
Ethylbenzene	01/05/23	ND	ug/L	140	2.4	No
Glyphosate	01/05/23	ND	ug/L	280	-	No
Guthion	01/05/23	ND	ug/L	20	-	No
Malathion	01/05/23	ND	ug/L	190	-	No
MCPA	01/05/23	ND	ug/L	100	-	No
Methylene Chloride	01/05/23	ND	ug/L	50	-	No
Metolachlor	01/05/23	ND	ug/L	50	-	No
Metribuzin	01/05/23	ND	ug/L	80	-	No
Paraquat	01/05/23	ND	ug/L	10	-	No
Pentachlorophenol	01/05/23	ND	ug/L	60	-	No
Phorate	01/05/23	ND	ug/L	2	-	No
Picloram	01/05/23	ND	ug/L	190	-	No
Total PCB	01/05/23	ND	ug/L	3	-	No
Prometryne	01/05/23	ND	ug/L	1	-	No
Simazine	01/05/23	ND	ug/L	10	-	No
Terbufos	01/05/23	ND	ug/L	1	-	No
Tetrachloroethylene	01/05/23	ND	ug/L	10	-	No

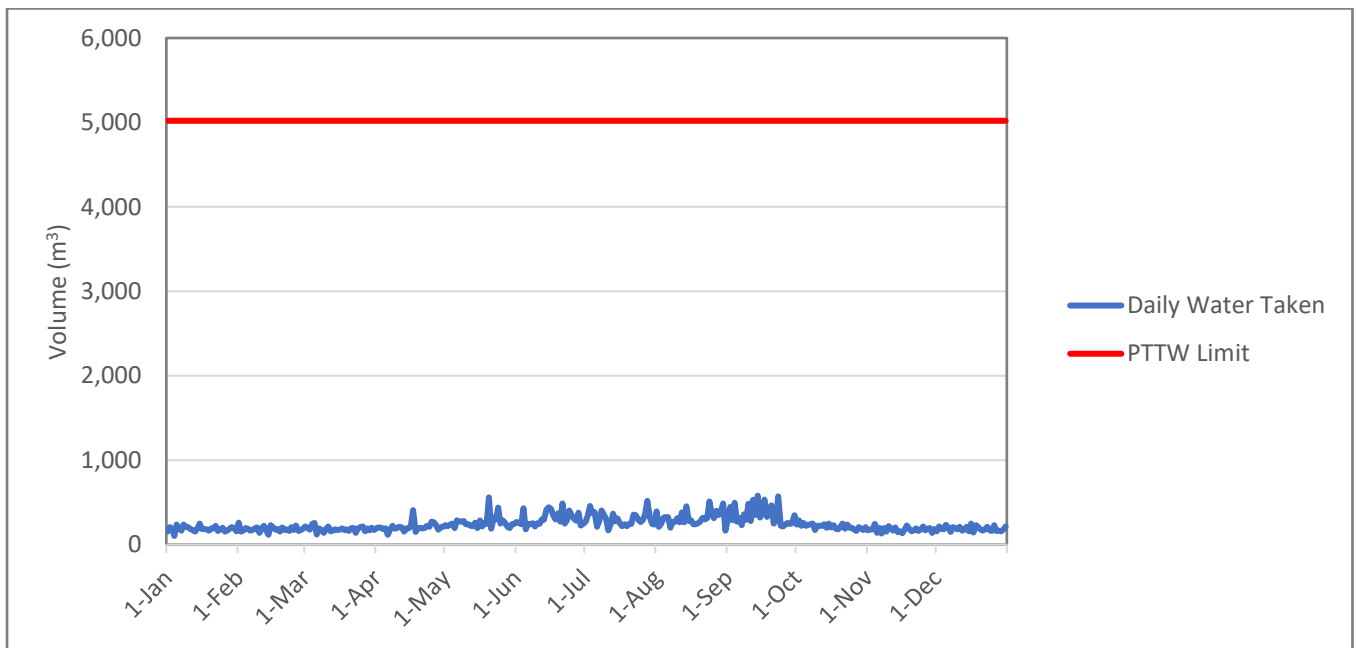
Parameter	Sample Date (mm/dd/yy)	Result Value	Unit of Measure	MAC	A/O	Exceedance
Toluene	01/05/23	ND	ug/L	60	24	No
Triallate	01/05/23	ND	ug/L	230	-	No
Trichloroethylene	01/05/23	ND	ug/L	5	-	No
Trifluralin	01/05/23	ND	ug/L	45	-	No
Vinyl Chloride	01/05/23	ND	ug/L	1	-	No
o-Xylene	01/05/23	ND	ug/L	-	-	-
p+m-Xylene	01/05/23	ND	ug/L	-	-	-

# Appendix B: Water Quantity Summary

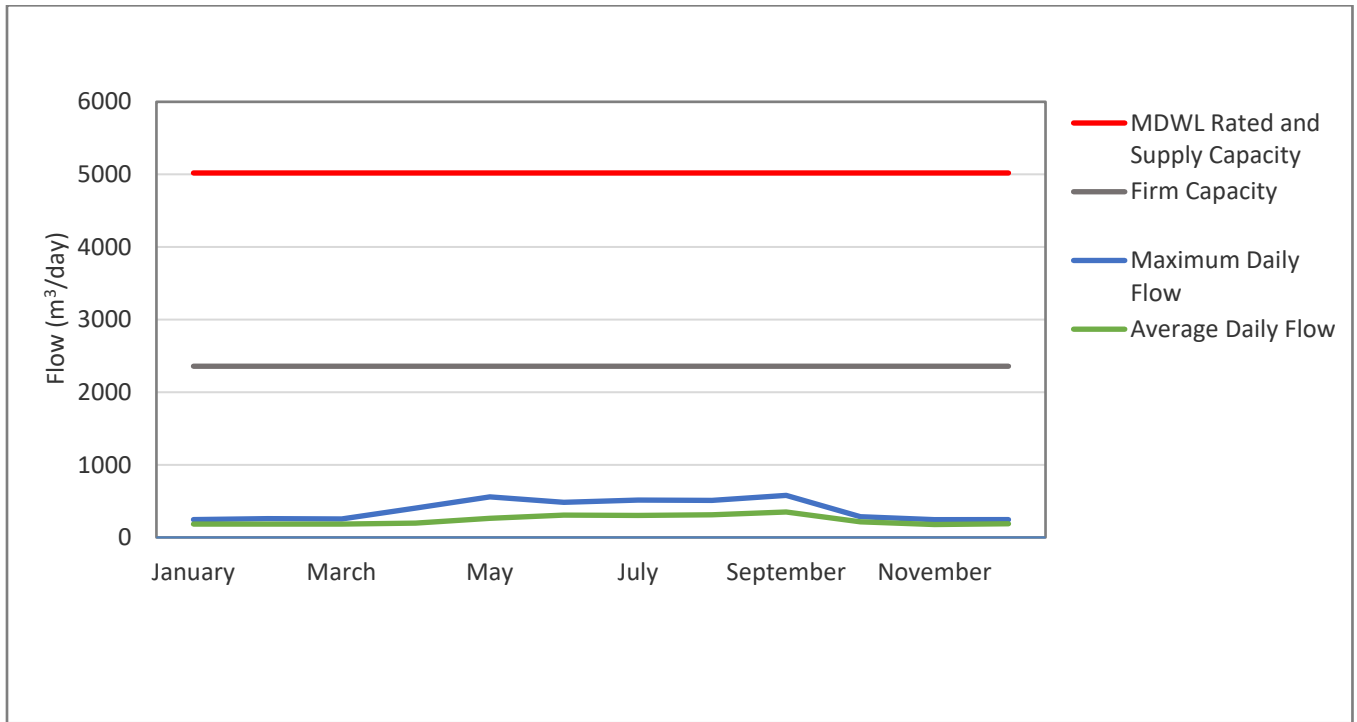
**Figure 1 - 2024 Total Production by Well (m<sup>3</sup>)**



**Figure 2 - 2024 Total Daily Water Taking (m<sup>3</sup>)**



**Figure 3 - 2024 Average vs Maximum Daily Flow Rates**



**Figure 4 - 2024 Daily Flow Rates**

