

## Document 2

### 2024 Water Flowrates in Ottawa's Municipal Water Systems

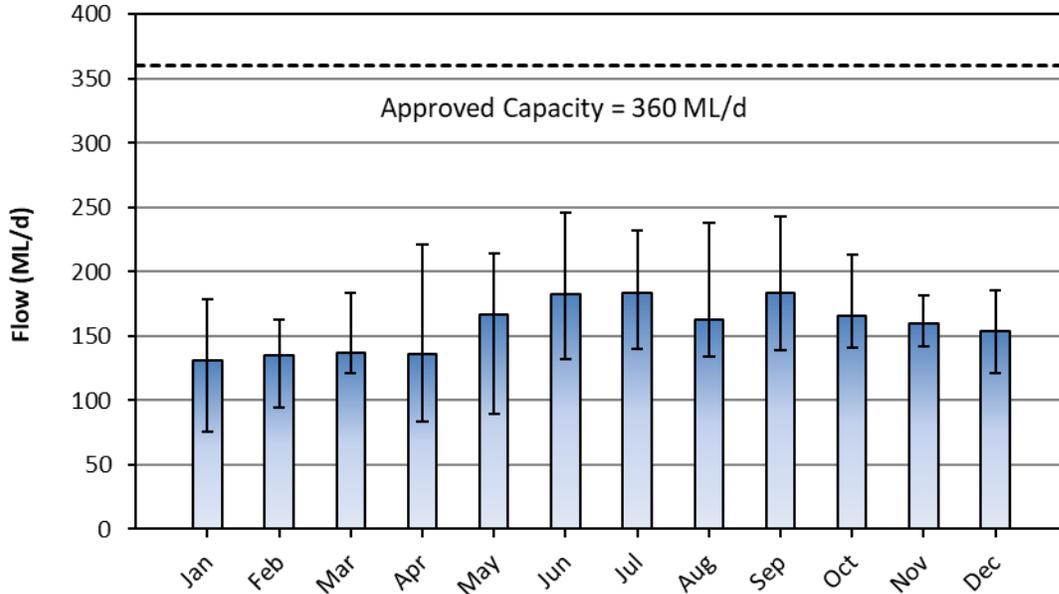
This supporting document reports on the amount of water supplied during the period of January 1 to December 31, 2024. The flowrates are shown in the tables and graphs that follow for each of the eight municipal water systems. Average, minimum, and maximum daily flows (by month) are shown in comparison to the rated capacity for each water system. Seasonal water use patterns can be seen in the graphs, with higher usage typically occurring during summer months.

#### Britannia WPP – Annual Water Flow Rates for 2024

The Britannia Water Purification Plant treated and distributed an average of 158.3 Million Liters per day (ML/d), which represents 44 per cent of the approved plant capacity of 360 ML/d. The daily flow rates ranged from a minimum of 75.5 ML/d to a maximum of 246.4 ML/d.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

#### 2024 Britannia Water Production by month



<b>Month</b>	<b>Average Daily Flow Rate (ML/d)</b>	<b>Minimum Daily Flow Rate (ML/d)</b>	<b>Maximum Daily Flow Rate (ML/d)</b>
January	131.3	75.5	178.9
February	135.5	94.2	163.2
March	137.0	121.5	183.3
April	136.1	83.2	221.6
May	166.5	89.6	214.6
June	182.9	132.5	246.4
July	183.6	139.7	231.9
August	162.5	133.8	238.1
September	183.9	139.2	242.5
October	166.1	140.5	213.4
November	159.5	142.0	181.6
December	153.5	121.2	185.9
<b>Year End</b>	<b>158.3</b> (Average)	<b>75.5</b> (Min. Day)	<b>246.4</b> (Max. Day)

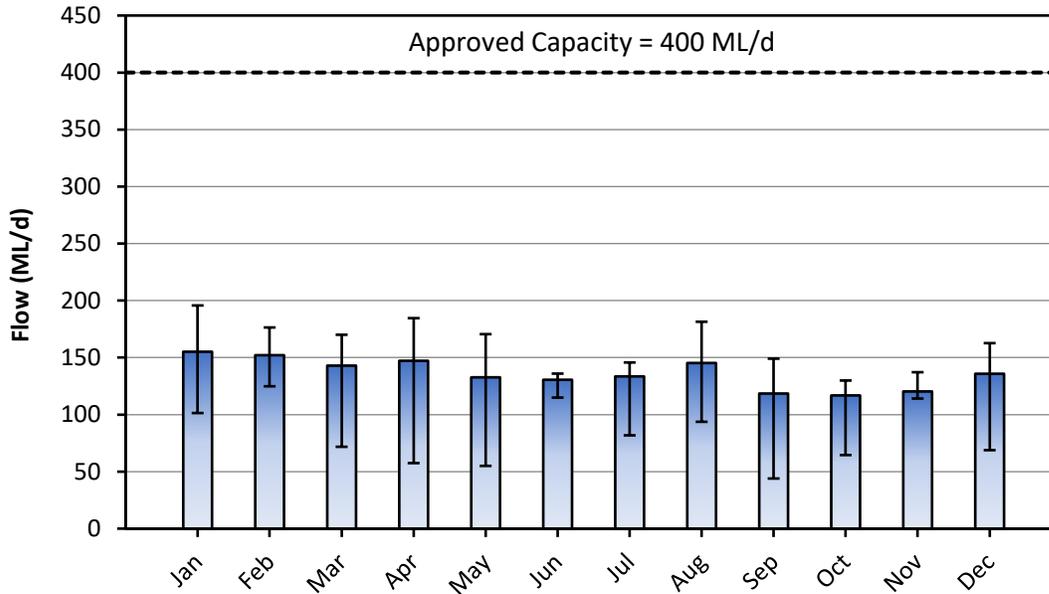
**Lemieux Island WPP – Annual Water Flow Rates for 2024**

The Lemieux Island Water Purification Plant treated and distributed an average of 135.9 Million Liters per day (ML/d), which represents 34 per cent of the approved plant capacity of 400 ML/d. The daily flow rates ranged from a minimum of 43.9 ML/d to a maximum of 195.7 ML/d.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

## 2024 Lemieux Island Water Production by month

(minimum, average & maximum daily flow rate)



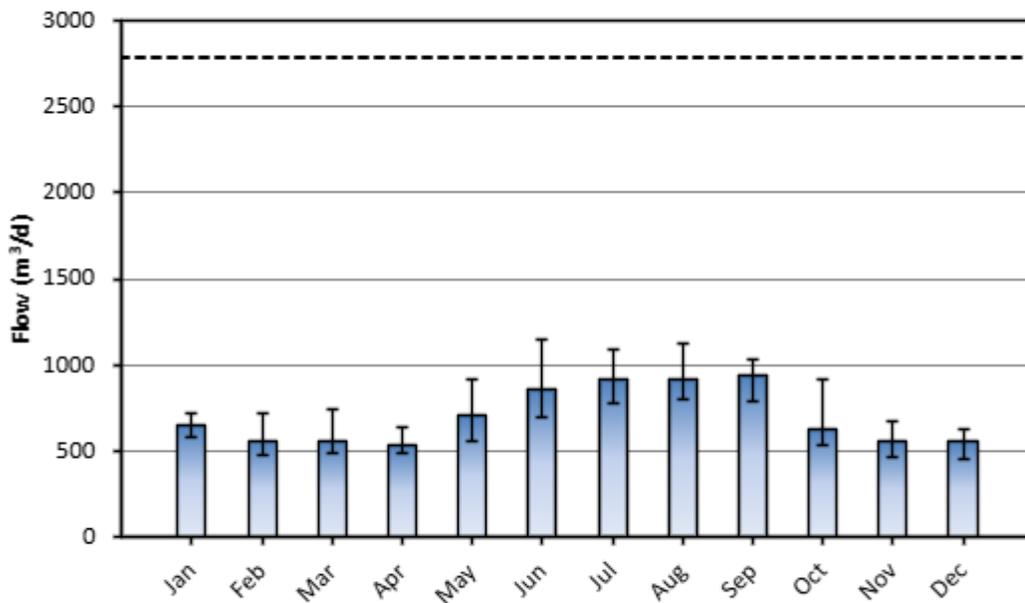
Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	155.1	101.4	195.7
February	152.1	124.8	176.4
March	143.0	71.8	170.0
April	147.2	57.5	184.6
May	132.7	55.0	170.6
June	130.5	114.9	136.0
July	133.5	81.8	145.7
August	145.3	93.7	181.4
September	118.5	43.9	149.1
October	116.8	64.5	129.9
November	120.3	114.1	137.2
December	135.8	68.8	162.7
<b>Year End</b>	<b>135.9</b> (Average)	<b>43.9</b> (Min. Day)	<b>195.7</b> (Max. Day)

## Carp Well System – Annual Water Flow Rates for 2024

The Carp Well System treated and distributed an average of 700.3 m<sup>3</sup>/d, which represents 25 per cent of the approved plant capacity of 2,782 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 451.4 m<sup>3</sup>/d to a maximum of 1142.7 m<sup>3</sup>/d.

The table and graph below summarize the 2023 water production by month, highlighting the minimum, maximum and average daily flows.

### 2024 Carp Water Production by month



Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	654.9	583.7	719.4
February	562.0	479.5	723.3
March	556.0	488.0	746.6
April	539.4	490.9	633.3
May	704.5	561.1	915.6
June	856.5	695.7	1142.7
July	916.5	776.4	1090.0
August	915.8	795.2	1119.4
September	937.6	794.8	1034.7

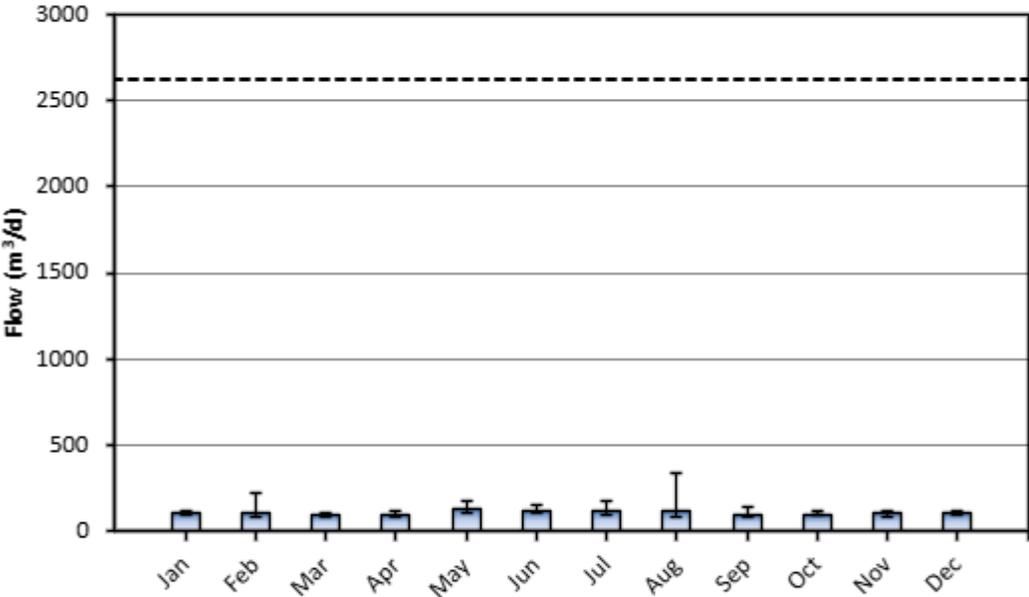
Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
October	621.6	532.0	914.5
November	552.3	469.3	674.4
December	557.8	451.4	630.3
<b>Year End</b>	<b>700.3</b> (Average)	<b>451.4</b> (Min. Day)	<b>1142.7</b> (Max. Day)

**Kings Park Well System – Annual Water Flow Rates for 2024**

The Kings Park Well System (Richmond) treated and distributed an average of 109.0 m<sup>3</sup>/d, which represents 4 per cent of the approved plant capacity of 2620 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 85.3 m<sup>3</sup>/d to a maximum of 343.9 m<sup>3</sup>/d.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

**2024 Kings Park Water Production by month**



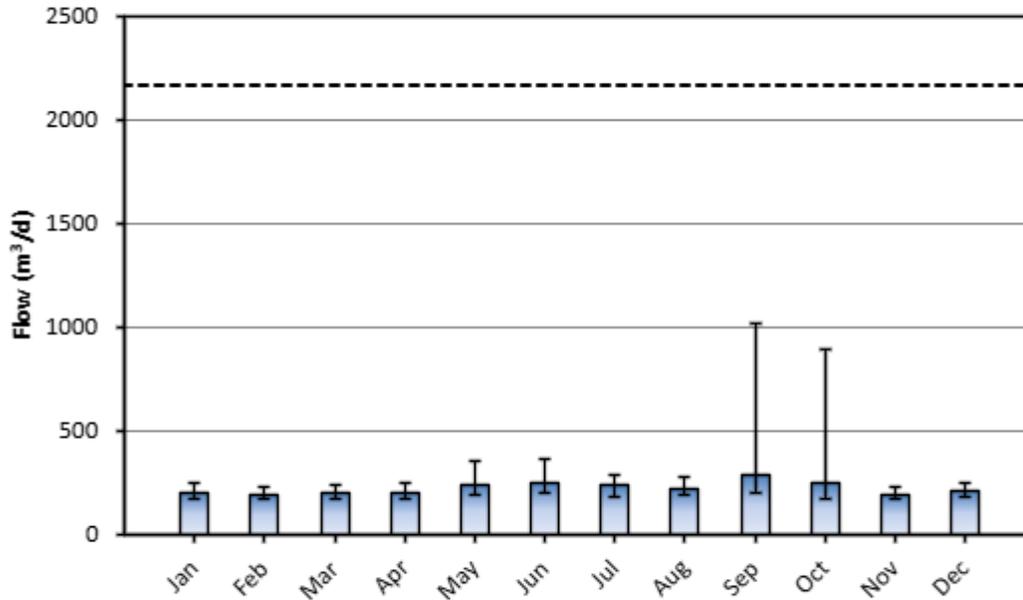
<b>Month</b>	<b>Average Daily Flow Rate (m<sup>3</sup>/d)</b>	<b>Minimum Daily Flow Rate (m<sup>3</sup>/d)</b>	<b>Maximum Daily Flow Rate (m<sup>3</sup>/d)</b>
January	104.5	94.9	121.0
February	107.8	89.1	225.1
March	96.7	87.4	109.1
April	98.4	86.1	117.4
May	127.5	105.5	177.2
June	123.5	103.7	151.9
July	116.4	94.1	177.8
August	119.6	85.3	343.9
September	100.8	86.1	138.0
October	100.4	91.8	118.6
November	102.5	88.9	115.2
December	105.9	91.3	125.2
<b>Year End</b>	<b>109.0</b> (Average)	<b>85.3</b> (Min. Day)	<b>343.9</b> (Max. Day)

**Munster Well System – Annual Water Flow Rates for 2024**

The Munster Well System treated and distributed an average of 225 m<sup>3</sup>/d, which represents 10 per cent of the approved plant capacity of 2160 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 172.9 m<sup>3</sup>/d to a maximum of 1020.8 m<sup>3</sup>/d. The maximum flow rate was associated with flushing activities in the distribution system.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

## 2024 Munster Water Production by month



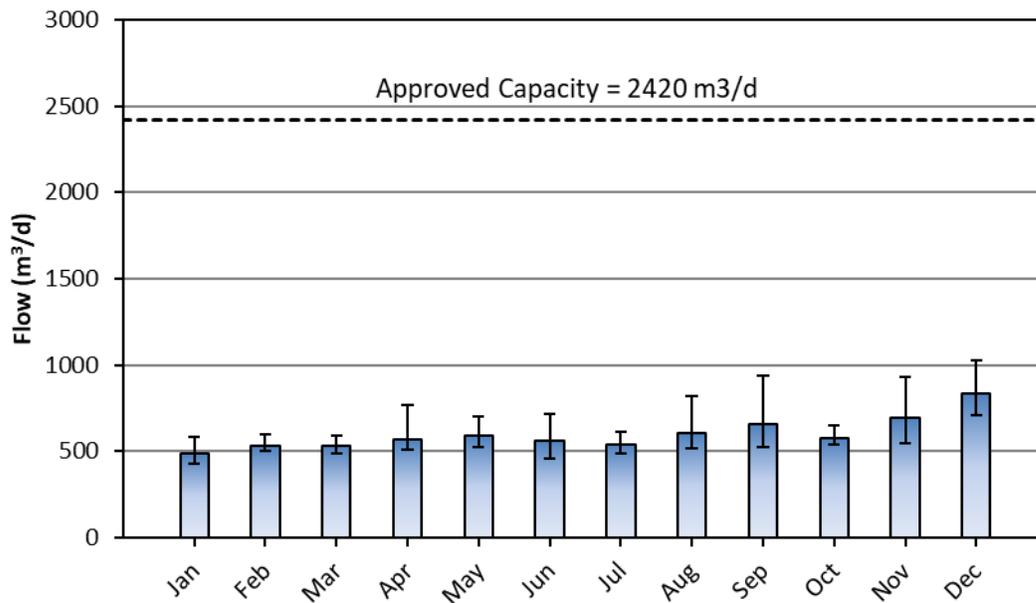
Month	Average Daily Flow Rate (m3/d)	Minimum Daily Flow Rate (m3/d)	Maximum Daily Flow Rate (m3/d)
January	205.6	176.6	248.7
February	196.4	172.9	232.4
March	199.4	173.1	236.2
April	203.2	177.0	248.3
May	241.7	194.0	353.5
June	248.6	202.9	368.5
July	236.4	182.5	291.4
August	219.2	188.5	274.9
September	292.2	199.6	1020.8
October	248.9	175.5	896.0
November	193.5	173.6	231.4
December	207.2	178.2	247.9
<b>Year End</b>	<b>225.0</b> (Average)	<b>172.9</b> (Min. Day)	<b>1020.8</b> (Max. Day)

## Richmond West Well System – Annual Water Flow Rates for 2024

The Richmond West Well System treated and distributed an average of 598.7 m<sup>3</sup>/d, which represents 25 per cent of the approved plant capacity of 2420 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 426.8 m<sup>3</sup>/d to a maximum of 1023.4 m<sup>3</sup>/d.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

### 2024 Richmond West Water Production by month



Month	Average Daily Flow Rate (m <sup>3</sup> /d)	Minimum Daily Flow Rate (m <sup>3</sup> /d)	Maximum Daily Flow Rate (m <sup>3</sup> /d)
January	488.9	426.8	584.3
February	532.8	499.3	594.8
March	534.5	489.2	591.6
April	571.1	509.8	767.6
May	587.2	523.5	698.2
June	558.9	457.1	718.6
July	542.2	486.5	612.0
August	608.4	514.2	821.8
September	653.8	524.2	934.3
October	577.4	537.9	649.3

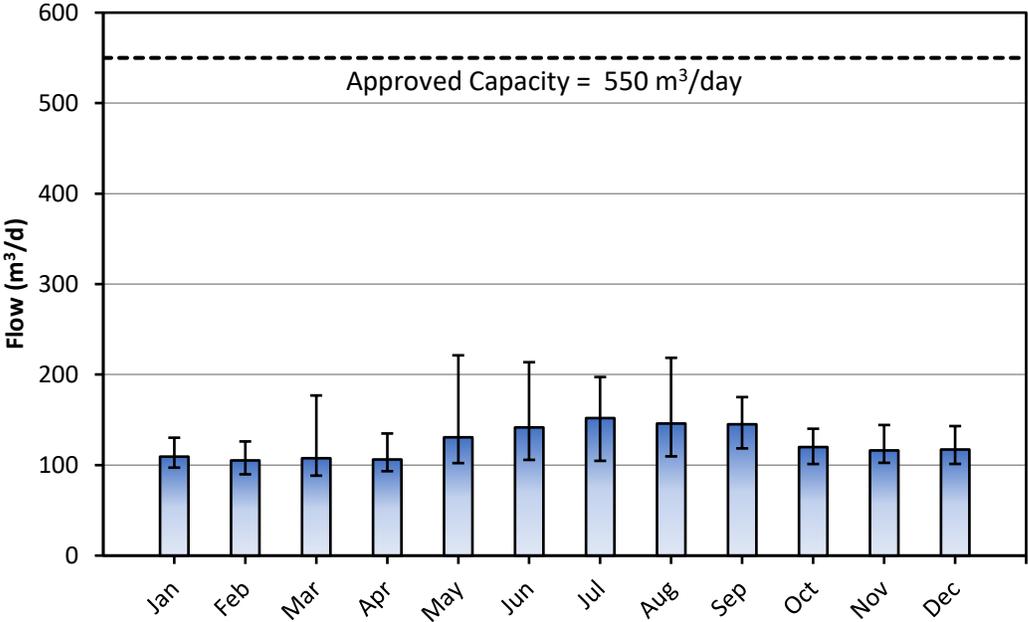
Month	Average Daily Flow Rate (m3/d)	Minimum Daily Flow Rate (m3/d)	Maximum Daily Flow Rate (m3/d)
November	692.5	549.3	929.6
December	834.6	709.3	1023.4
<b>Year End</b>	<b>598.7</b> (Average)	<b>426.8</b> (Min. Day)	<b>1023.4</b> (Max. Day)

**Shadow Ridge Well System – Annual Water Flow Rates for 2024**

The Shadow Ridge Well System treated and distributed an average of 125.2 m<sup>3</sup>/d, which represents 23 per cent of the approved plant capacity of 550 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 88.3 m<sup>3</sup>/d to a maximum of 221.3 m<sup>3</sup>/d.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

**2024 Shadow Ridge Water Production by month**



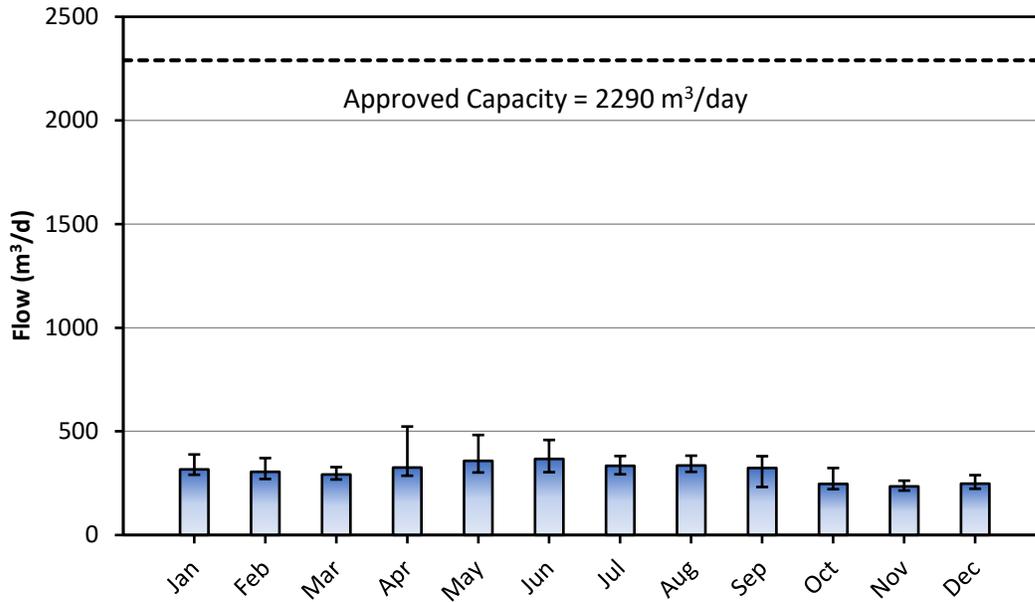
<b>Month</b>	<b>Average Daily Flow Rate (m<sup>3</sup>/d)</b>	<b>Minimum Daily Flow Rate (m<sup>3</sup>/d)</b>	<b>Maximum Daily Flow Rate (m<sup>3</sup>/d)</b>
January	109.4	97.2	130.3
February	105.2	89.8	126.1
March	107.6	88.3	177.0
April	106.2	93.3	134.9
May	130.7	102.2	221.3
June	141.6	105.8	213.7
July	151.9	104.7	197.3
August	145.9	109.6	218.6
September	145.1	118.5	175.2
October	119.9	101.2	140.2
November	116.2	102.5	144.3
December	117.2	101.3	143.1
<b>Year End</b>	<b>125.2</b> (Average)	<b>88.3</b> (Min. Day)	<b>221.3</b> (Max. Day)

**Vars Well System – Annual Water Flow Rates for 2024**

The Vars Well System treated and distributed an average of 308.1 m<sup>3</sup>/d, which represents 13 per cent of the approved plant capacity of 2290 m<sup>3</sup>/d. The daily flow rates ranged from a minimum of 214.6 m<sup>3</sup>/d to a maximum of 523.5 m<sup>3</sup>/d.

The table and graph below summarize the 2024 water production by month, highlighting the minimum, maximum and average daily flows.

## 2024 Vars Water Production by month



Month	Average Daily Flow Rate (m3/d)	Minimum Daily Flow Rate (m3/d)	Maximum Daily Flow Rate (m3/d)
January	316.7	290.8	388.7
February	305.1	270.5	371.3
March	292.1	268.1	327.7
April	325.7	286.2	523.5
May	358.0	301.8	482.7
June	367.2	303.2	458.7
July	334.1	293.0	381.1
August	335.5	304.9	382.8
September	323.6	231.8	380.4
October	246.8	221.3	323.4
November	234.7	214.6	262.3
December	248.0	223.3	289.0
<b>Year End</b>	<b>308.1</b> (Average)	<b>214.6</b> (Min. Day)	<b>523.5</b> (Max. Day)