



## MONTHLY REPORTING PERIOD - DECEMBER, 2025

### SUMMARY

This document provides a summary of water quantity and quality data collected by BMID in December 2025.

#### WATER SUPPLY SUMMARY

Water Source	Active / Not Active	Volume (Mega Liters)	Irrigation / Domestic	Comments
<b>Mission Ck.</b>	<b>Active</b>	<b>242.77</b>	<b>Domestic/Irrig.</b>	Primary Water supply. Domestic and irrig. demand.
Scotty Creek	Not Active	0	Irrig. only	Scotty Creek will resume operations summer 2026
Well 3 Cornish	Not Active	0	Irrig. only	Well #3 upgrade underway to provide for irrigation
<b>Well 4</b>	<b>Active</b>	<b>1.19</b>	<b>Domestic</b>	Well 4 secondary water source in north-end
Well 5	Not Active	0	Domestic/Irrig	Well #5 will resume operations summer 2026
Well 6	Not Active	0	Irrig. only	Well # 6 will resume operations summer 2026
December 2025	<b>Total:</b>	<b>243.95</b>		<b>10 Year Average for December = 234.26</b>

#### WATER QUALITY SUMMARY

Raw Water Microbiological Summary		E-Coli		
Location	# of Samples	Lowest E.Coli Reading	Ave. E.Coli Reading	Highest E.Coli/ Reading
Mission Creek Intake	5	0	1.6	3
Stevens Reservoir	5	0	0.4	1
Hadden Reservoir	5	0	0.6	1
Treated Water Microbiological Summary				
Turbidity Summary				
Location	Low Reading	Average Reading	High Reading	Comments
Mission Creek Raw Water	0.57 NTU	1.03 NTU	2.88 NTU	
Distribution Intake	0.42 NTU	0.46 NTU	0.70 NTU	
UV Plant	0.57 NTU	0.60 NTU	0.65 NTU	
Booster # 1 (first customer)	0.40 NTU	0.44 NTU	0.50 NTU	
UV Treatment Plant				
Plant Flow Volume	In-Spec	Off-Spec	% Off-Spec	Comments
m <sup>3</sup>	244,937 m <sup>3</sup>	0 m <sup>3</sup>	0.00%	

#### WATER QUALITY DISTRIBUTION TESTING

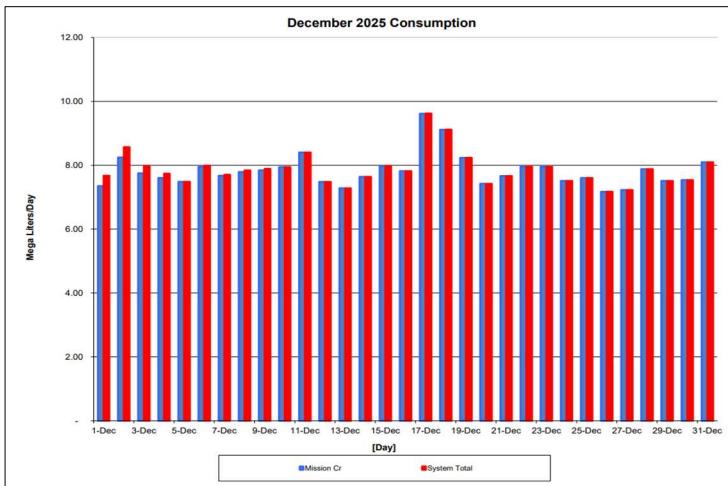
BМИD Population:	30,000	CARO (third party) Testing	33
Required Minimum # of Tests:	30	In House Pres./Absence	11
		Total Tests:	44
		Total Positive Tests:	0

Documentation and figures are provided on the following pages to support this submission.

## 1.0 FLOWS - DECEMBER, 2025

Mission Creek provided 99.5% of the 244 Mega Liters used in the BMID system in December, with Well 4 supplying the remaining 0.5%.

**Figure 1.1 - Domestic Water System Flow**



**Table 1.2 - December 2025 - Daily Consumption Report**

Year	Mission Cr ML/Day	Well #4 ML/Day	Well #5 ML/Day	System Total ML/Day
2025				
1-Dec	7.35	0.33	-	7.68
2-Dec	8.25	0.32	-	8.57
3-Dec	7.75	0.23	-	7.98
4-Dec	7.61	0.13	-	7.74
5-Dec	7.49	-	-	7.49
6-Dec	7.95	0.04	-	7.99
7-Dec	7.67	0.04	-	7.71
8-Dec	7.79	0.05	-	7.84
9-Dec	7.84	0.05	-	7.89
10-Dec	7.94	-	-	7.94
11-Dec	8.40	-	-	8.40
12-Dec	7.48	-	-	7.48
13-Dec	7.28	-	-	7.28
14-Dec	7.64	-	-	7.64
15-Dec	7.98	-	-	7.98
16-Dec	7.82	-	-	7.82
17-Dec	9.62	0.00	-	9.62
18-Dec	9.11	0.00	-	9.12
19-Dec	8.24	0.00	-	8.24
20-Dec	7.42	-	-	7.42
21-Dec	7.67	-	-	7.67
22-Dec	7.96	-	-	7.96
23-Dec	7.95	-	-	7.95
24-Dec	7.51	-	-	7.51
25-Dec	7.60	-	-	7.60
26-Dec	7.17	-	-	7.17
27-Dec	7.23	-	-	7.23
28-Dec	7.88	-	-	7.88
29-Dec	7.51	-	-	7.51
30-Dec	7.54	-	-	7.54
31-Dec	8.10	-	-	8.10
Totals ML	242.77	1.19	0.00	243.95
Avg's	7.83	0.04	0.00	7.87
Max	9.62	0.33	0.00	9.62
Min	7.17	0.00	0.00	7.17

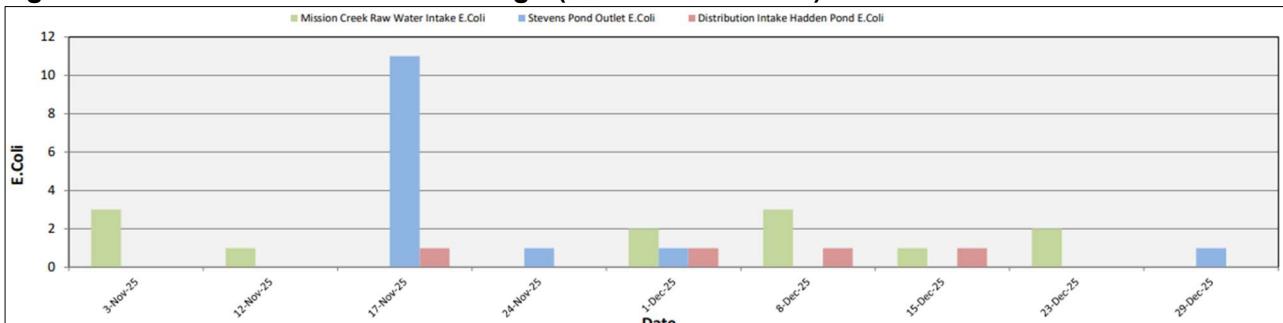


## 2.0 RAW WATER QUALITY - BACTERIOLOGICAL MONITORING

Raw water samples were taken at three points at BMID settling ponds before chlorination. Samples were taken at the Mission Creek raw water intake, the outlet for Stevens Pond, and the point of disinfection at the end of Hadden Reservoir.

Samples from the previous month are also provided to show a two-month trend

**Figure 2.1 - Raw Water E.Coli Readings (CARO Lab results) November 2025 - December 2025**



**Table 2.1 - E.Coli Readings (CARO Labs)**

Date	Mission Creek Raw Water Intake E.Coli	Stevens Pond Outlet E.Coli	Distribution Intake Hadden Pond E.Coli
3-Nov-25	3	0	0
12-Nov-25	1	0	0
17-Nov-25	0	11	1
24-Nov-25	0	1	0
1-Dec-25	2	1	1
8-Dec-25	3	0	1
15-Dec-25	1	0	1
23-Dec-25	2	0	0
29-Dec-25	0	1	0

Stevens or WTP Intake (Raw) - Sampling of raw water at intake from Mission Creek

Stevens Outlet (Raw) - Sampling point after exiting 142,000 m<sup>3</sup> 1<sup>st</sup> upper balancing reservoir (Stevens Res.)

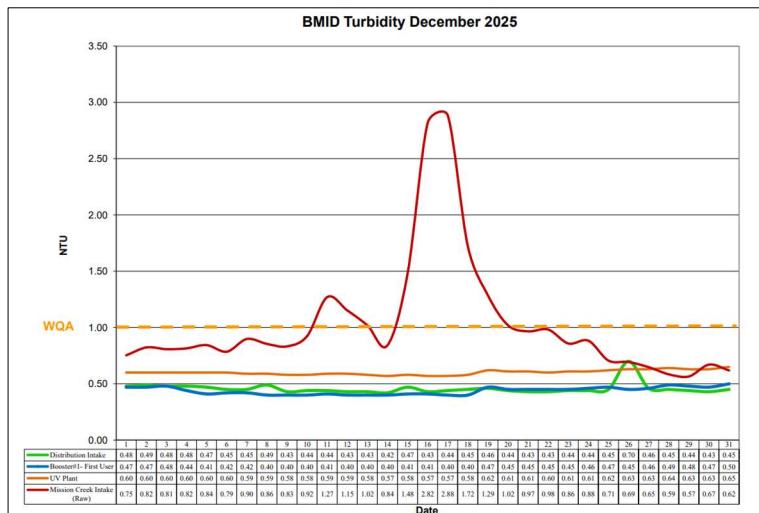
Hadden Outlet (Raw) - Sampling point after exiting 75,000 m<sup>3</sup> 2<sup>nd</sup> lower balancing reservoir (Hadden Res.)

(Hadden Outlet = Distribution Intake - Point of Disinfection)

### 3.0 RAW AND TREATED WATER TURBIDITY

Turbidity is measured online at four locations, Mission Creek raw water intake, the Distribution Intake, the UV treatment plant, and Booster #1. The first user of the BMID system is located near Booster #1. The highest turbidity level recorded at this location was 0.50 NTU on December 31, 2025.

**Figure 3.1 – Daily Turbidity Readings  
(Mission Creek Raw - Distribution Intake – UV Plant and Booster Station #1)**



**Table 3.1 - Daily Monitoring Record – Turbidity at On-Line Turbidity Analyzers**

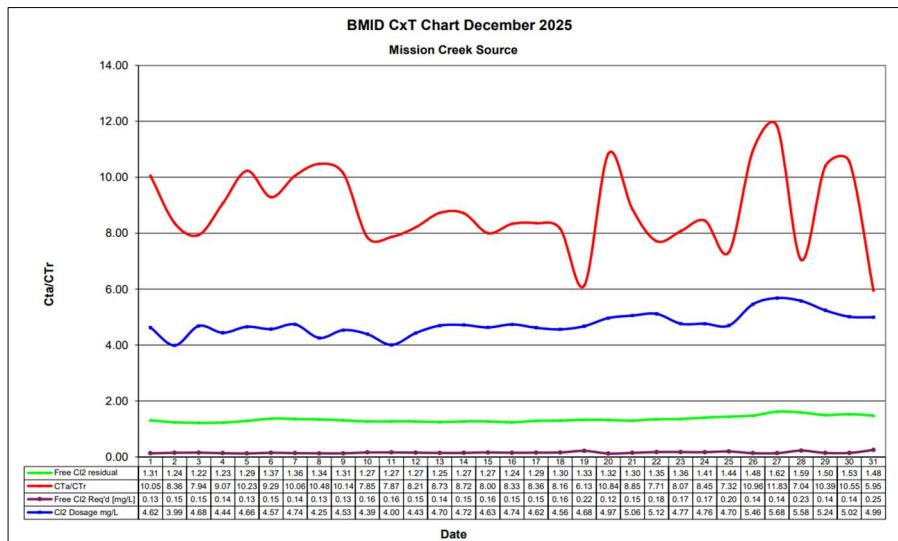
Date	Turbidity Point Sampling for December 2025			
	Mission Creek Intake (Raw)		UV Plant	
	Daily Average NTU	Daily Average NTU	Daily Average NTU	Booster#1- First User Daily Average NTU
1	0.75	0.48	0.60	0.47
2	0.82	0.49	0.60	0.47
3	0.81	0.48	0.60	0.48
4	0.82	0.48	0.60	0.44
5	0.84	0.47	0.60	0.41
6	0.79	0.45	0.60	0.42
7	0.90	0.45	0.59	0.42
8	0.86	0.49	0.59	0.40
9	0.83	0.43	0.58	0.40
10	0.92	0.44	0.58	0.40
11	1.27	0.44	0.59	0.41
12	1.15	0.43	0.59	0.40
13	1.02	0.43	0.58	0.40
14	0.84	0.42	0.57	0.40
15	1.48	0.47	0.58	0.41
16	2.82	0.43	0.57	0.41
17	2.88	0.44	0.57	0.40
18	1.72	0.45	0.58	0.40
19	1.29	0.46	0.62	0.47
20	1.02	0.44	0.61	0.45
21	0.97	0.43	0.61	0.45
22	0.98	0.43	0.60	0.45
23	0.86	0.44	0.61	0.45
24	0.88	0.44	0.61	0.46
25	0.71	0.45	0.62	0.47
26	0.69	0.70	0.63	0.45
27	0.65	0.46	0.63	0.46
28	0.59	0.45	0.64	0.49
29	0.57	0.44	0.63	0.48
30	0.67	0.43	0.63	0.47
31	0.62	0.45	0.65	0.50
AVG	1.03	0.46	0.60	0.44



## 4.0 CHLORINE CONTACT TIME

Temperature, pH, peak flow and chlorine residual levels are recorded to determine the CT levels that are required to provide 3 log inactivation of *Giardia*. Chlorine Contact times exceeded the CT levels required to provide 3 log (99.9%) inactivation of *Giardia Lamblia* throughout the month of December, 2025.

**Figure 4.1 - CT Trending – BMID Mission Creek Source – December 2025**



CTa – CT achieved  
CTr – CT Required

The minimum CT that BMID achieved was 5.95 X that of what was required

**Table 4.2 - CT Table – Mission Creek Source**

DATE	BMID December 2025												
	Mission Creek Source												
December	pH (Average)	TEMP (Present)	PEAK FLOW	Free Cl2 residual	CT achieved	CT req'd	CTa/CTr	Free Cl2 Req'd mg/L	Cl2 Dosage mg/L	VOLUME TOTAL	TIME [mins]	FLOW Daily Average L/s	Dosage Average KG/Day
	1	7.30	6.9	134	1.31	1634.3	162.7	10.05	0.13	4.62	10029827	1248	67 27
2	7.27	6.7	153	1.24	1352.5	161.8	8.36	0.15	3.99	10029827	1091	87 30	
3	7.26	6.6	159	1.22	1285.5	161.9	7.94	0.15	4.68	10029827	1054	70 28	
4	7.26	6.8	142	1.23	1449.8	159.9	9.07	0.14	4.44	10029827	1179	72 28	
5	7.27	6.6	129	1.29	1676.1	163.9	10.23	0.13	4.66	10029827	1299	68 27	
6	7.27	6.7	150	1.37	1525.3	164.2	9.29	0.15	4.57	10029827	1113	73 29	
7	7.28	6.6	136	1.36	1667.3	165.8	10.06	0.14	4.74	10029827	1226	68 28	
8	7.27	6.7	131	1.34	1714.9	163.7	10.48	0.13	4.25	10029827	1280	77 28	
9	7.27	6.9	134	1.31	1631.3	160.9	10.14	0.13	4.53	10029827	1245	73 29	
10	7.27	6.9	169	1.27	1257.2	160.1	7.85	0.16	4.39	10029827	990	76 29	
11	7.27	6.9	169	1.27	1259.8	160.1	7.87	0.16	4.00	10029827	992	88 30	
12	7.28	6.9	161	1.27	1319.1	160.7	8.21	0.15	4.43	10029827	1039	71 27	
13	7.28	6.8	148	1.25	1408.9	161.5	8.73	0.14	4.70	10029827	1127	65 27	
14	7.28	6.7	149	1.27	1420.3	163.0	8.72	0.15	4.72	10029827	1118	68 28	
15	7.29	6.9	164	1.27	1290.7	161.3	8.00	0.16	4.63	10029827	1016	73 29	
16	7.30	6.8	153	1.24	1353.8	162.5	8.33	0.15	4.74	10029827	1092	69 28	
17	7.31	6.8	157	1.29	1370.7	164.0	8.36	0.15	4.62	10029827	1063	72 29	
18	7.33	7.0	163	1.30	1331.4	163.1	8.16	0.16	4.56	10029827	1024	70 27	
19	7.31	6.8	220	1.33	1009.5	164.8	6.13	0.22	4.68	10029827	759	78 32	
20	7.29	6.8	125	1.32	1771.8	163.4	10.84	0.12	4.97	10029827	1342	67 29	
21	7.29	6.3	146	1.30	1493.3	168.8	8.85	0.15	5.06	10029827	1149	68 30	
22	7.27	6.2	172	1.35	1308.5	169.6	7.71	0.18	5.12	10029827	969	70 31	
23	7.24	6.1	173	1.36	1365.4	169.1	8.07	0.17	4.77	10029827	968	75 31	
24	7.23	6.1	168	1.41	1431.4	169.4	8.45	0.17	4.76	10029827	994	71 29	
25	7.23	6.3	196	1.44	1226.8	167.6	7.32	0.20	4.70	10029827	852	73 30	
26	7.23	6.1	132	1.48	1869.9	170.6	10.96	0.14	5.46	10029827	1263	62 29	
27	7.22	6.1	133	1.62	2038.3	172.3	11.83	0.14	5.68	10029827	1258	61 30	
28	7.22	4.3	194	1.59	1371.3	194.7	7.04	0.23	5.58	10029827	862	68 33	
29	7.22	4.3	125	1.50	2005.6	193.0	10.39	0.14	5.24	10029827	1337	67 30	
30	7.22	4.3	125	1.53	2043.0	193.6	10.55	0.14	5.02	10029827	1335	69 30	
31	7.22	4.2	214	1.48	1154.0	194.0	5.95	0.25	0.42	10029827	780	75 32	
Averages	7.27	6.40	154	1.34	1496.1	167.3	8.93	0.15	4.74	10029827	1109.5	71.24 29.04	

\*This calculation is based on a total volume of 10,030 m<sup>3</sup> of water to calculate contact time

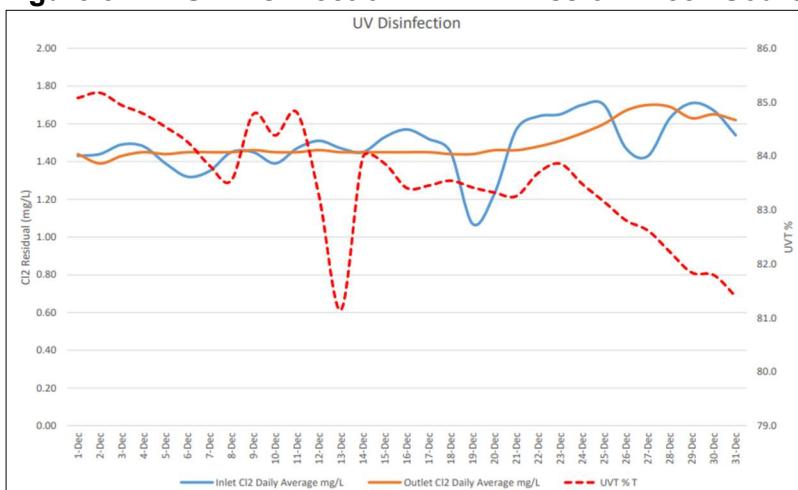


## 5.0 ULTRAVIOLET DISINFECTION

Total Water Treated:	244,937 m <sup>3</sup>	100.000%
On-Spec Water:	244,937 m <sup>3</sup>	100.000%
Off-Spec Water:	0 m <sup>3</sup>	0.000%

Average monthly chlorine residual before UV Treatment was 1.49 mg/L  
The average monthly chlorine residual after UV treatment and re-chlorination was 1.50 mg/L.

**Figure 5.1 - UV Disinfection – BMID Mission Creek Source – December 2025**



**Table 5.2 - UV Disinfection Table – Mission Creek Source**

Date	Inlet Cl2 Daily	Outlet Cl2 Daily	UVT	Turbidity	In Spec Water Volume	Off Spec Water	Off Spec % of Water
	mg/L	mg/L					
1-Dec	1.43	1.44	85.1	0.60	7,351	0	0.00%
2-Dec	1.44	1.39	85.2	0.60	8,248	0	0.00%
3-Dec	1.49	1.43	84.9	0.60	7,754	0	0.00%
4-Dec	1.48	1.45	84.8	0.60	7,608	0	0.00%
5-Dec	1.39	1.44	84.5	0.60	7,486	0	0.00%
6-Dec	1.32	1.45	84.3	0.60	7,951	0	0.00%
7-Dec	1.35	1.45	83.8	0.59	7,673	0	0.00%
8-Dec	1.45	1.45	83.6	0.59	7,794	0	0.00%
9-Dec	1.45	1.46	84.8	0.58	7,844	0	0.00%
10-Dec	1.39	1.45	84.4	0.58	7,942	0	0.00%
11-Dec	1.47	1.45	84.8	0.59	8,404	0	0.00%
12-Dec	1.51	1.46	83.3	0.59	7,482	0	0.00%
13-Dec	1.47	1.45	81.2	0.58	7,283	0	0.00%
14-Dec	1.45	1.45	84.0	0.57	7,638	0	0.00%
15-Dec	1.53	1.45	83.9	0.58	7,978	0	0.00%
16-Dec	1.57	1.45	83.4	0.57	7,820	0	0.00%
17-Dec	1.52	1.45	83.5	0.57	11,787	0	0.00%
18-Dec	1.45	1.44	83.5	0.58	9,114	0	0.00%
19-Dec	1.07	1.44	83.4	0.62	8,236	0	0.00%
20-Dec	1.23	1.46	83.3	0.61	7,423	0	0.00%
21-Dec	1.57	1.46	83.3	0.61	7,667	0	0.00%
22-Dec	1.64	1.48	83.7	0.60	7,959	0	0.00%
23-Dec	1.65	1.51	83.9	0.61	7,954	0	0.00%
24-Dec	1.70	1.55	83.5	0.61	7,513	0	0.00%
25-Dec	1.70	1.60	83.2	0.62	7,605	0	0.00%
26-Dec	1.47	1.67	82.8	0.63	7,173	0	0.00%
27-Dec	1.43	1.70	82.6	0.63	7,226	0	0.00%
28-Dec	1.63	1.69	82.2	0.64	7,882	0	0.00%
29-Dec	1.71	1.63	81.8	0.63	7,512	0	0.00%
30-Dec	1.67	1.65	81.8	0.63	7,536	0	0.00%
31-Dec	1.54	1.62	81.4	0.65	8,098	0	0.00%
Average	1.49	1.50	83.54	Total	244,937	0	0.000%



## 6.0 WATER DISTRIBUTION SAMPLING (TREATED)

### Third Party Analysis (CARO Analytical Services)

- Samples taken once per week at ten locations around the BMID service area.
- 33 samples were found to be absent of Coliforms.
- 33 samples were found to be absent of *E.Coli*.

**Table 6.1 - CARO Independent Lab Testing – Total Coliforms – *E.Coli***

Date	3-Nov-25		12-Nov-25		17-Nov-25		24-Nov-25		1-Dec-25		8-Dec-25		15-Dec-25		23-Dec-25		29-Dec-25	
	Coliforms	<i>E.Coli</i>																
2921 Belgo Rd					0	0	0	0	0	0	0	0	0	0	0	0	0	0
Booster #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ellison Blow-Off	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ellison School	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3976 Highway 97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prospect Reservoir																		
Tower Ranch Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well #4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Surface water at Well #4																		
Kirshner Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Person School	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Esquire Reservoir																		

### In-House Analysis (BMID Staff)

- Presence/Absence samples taken on a three-week cycle at seven sites around the BMID service area.
- All 11 samples were found to be absent of both *Total Coliforms* and *E.Coli*.

**Table 6.2 - BMID In-house Testing – Presence Absence**

Location	12/1/2025			12/8/2025			12/15/2025			12/23/2025			12/29/2025			
	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.
Sylvania Cres									0.64	12.0	-	X				
170 Kneller Rd									0.81	11.6	-	X				
2105 Morrison	0.59	13.1	-	X									0.48	5.9	-	X
Staymen Rd	0.05	12.1	-	X									0.06	6.2	-	X
260 Campion Rd					0.10	12.7	-	X								
Fenwick Rd					0.26	11.7	-	X								
Solly Ct									0.67	11.3	-	X				