

**CITY OF WEST KELOWNA**

# Monthly Water Quality Report



Rose Valley Water Service Area

February 2025

# WATER SUPPLY AND TREATMENT





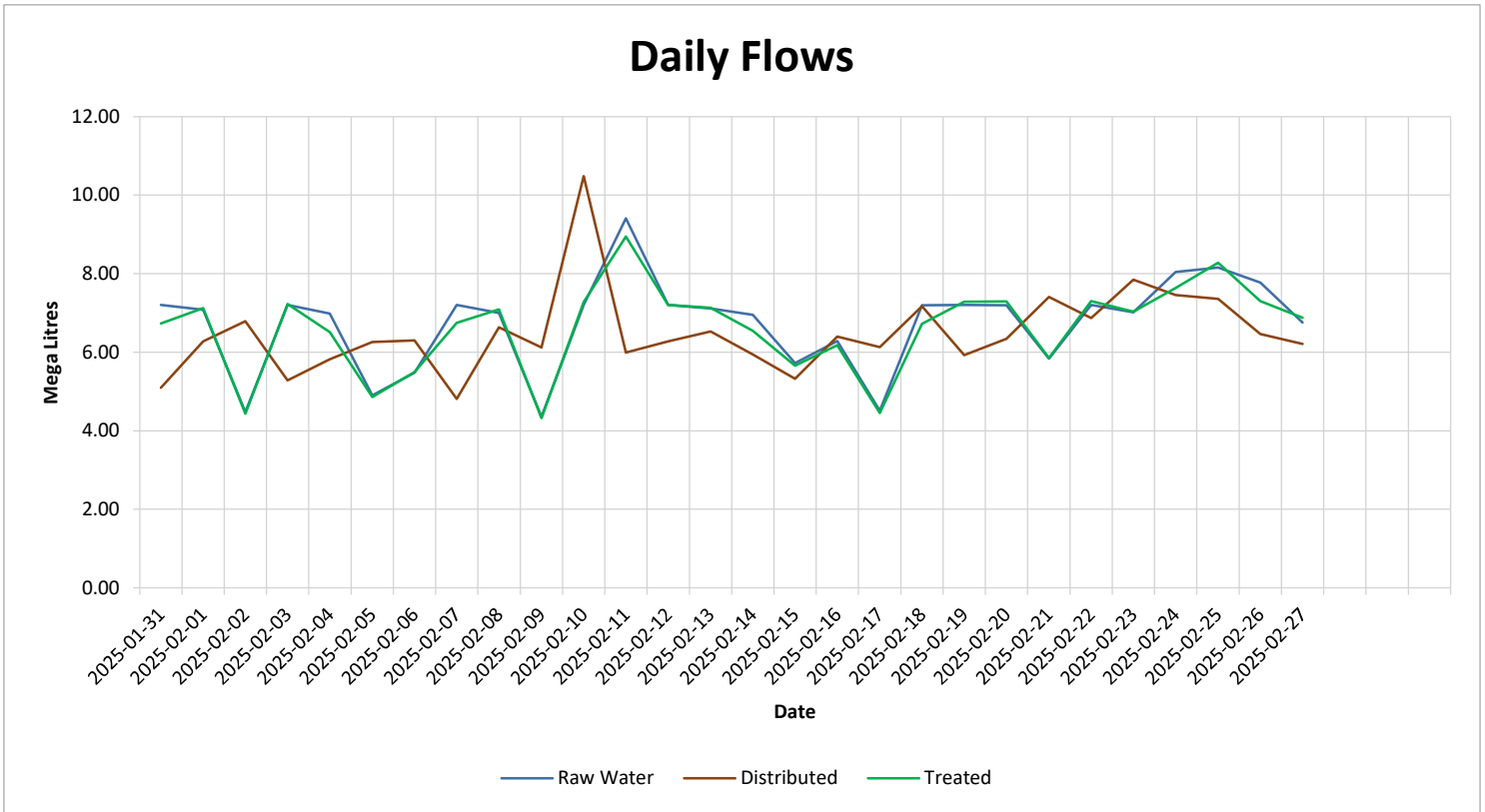
# Rose Valley Water Treatment Plant Monthly Water Quality Summary

2025-03-12

**February, 2025**

## Flow Demand:

	<b>Total for Month</b>	
Raw Processed Water:	188.64	ML
Treated Water :	185.50	ML
Distributed Water :	181.55	ML
Backwash Water :	4.577836	ML



### Notes:

Large Daily flow recorded on February 10th, due to a 10" main break in the distribution network. Approximately 5ML of water lost.

## Raw Water Specifications:

Date	Raw Turbidity (NTU)			Raw pH		
	Min	Max	Average	Min	Max	Average
2025-02-01	0.48	0.60	0.53	7.62	7.65	7.64
2025-02-02	0.50	0.64	0.55	7.63	7.66	7.65
2025-02-03	0.51	0.63	0.56	7.64	7.66	7.65
2025-02-04	0.30	0.56	0.43	7.62	7.65	7.63
2025-02-05	0.37	0.46	0.41	7.61	7.63	7.62
2025-02-06	0.39	0.47	0.43	7.61	7.63	7.62
2025-02-07	0.39	0.46	0.42	7.60	7.61	7.61
2025-02-08	0.36	0.43	0.38	7.59	7.60	7.60
2025-02-09	0.32	0.45	0.36	7.58	7.60	7.59
2025-02-10	0.25	0.33	0.28	7.59	7.75	7.66
2025-02-11	0.21	1.19	0.40	7.68	7.76	7.71
2025-02-12	0.20	0.30	0.22	7.67	7.72	7.69
2025-02-13	0.23	0.60	0.26	7.66	7.84	7.68
2025-02-14	0.26	0.30	0.28	7.67	7.68	7.67
2025-02-15	0.26	0.31	0.28	7.65	7.67	7.66
2025-02-16	0.29	0.36	0.31	7.64	7.66	7.65
2025-02-17	0.32	0.40	0.34	7.63	7.65	7.64
2025-02-18	0.14	0.38	0.29	7.63	7.64	7.64
2025-02-19	0.14	0.21	0.17	7.61	7.64	7.63
2025-02-20	0.20	0.27	0.23	7.62	7.63	7.62
2025-02-21	0.14	0.25	0.18	7.62	7.75	7.68
2025-02-22	0.13	0.16	0.14	7.67	7.69	7.68
2025-02-23	0.12	0.19	0.15	7.66	7.69	7.68
2025-02-24	0.17	0.22	0.19	7.65	7.68	7.67
2025-02-25	0.14	0.22	0.17	7.64	7.65	7.65
2025-02-26	0.13	0.17	0.14	7.63	7.66	7.64
2025-02-27	0.12	0.19	0.13	7.63	7.64	7.64
2025-02-28	0.15	0.24	0.18	7.62	7.64	7.63

Notes:

**Raw Water Specifications (Continued):**

Date	Raw Temp (°C)			Raw DOC (mg/L)		
	Min	Max	Average	Min	Max	Average
2025-02-01	3.14	3.26	3.20	11.53	11.97	11.72
2025-02-02	3.22	3.50	3.29	11.48	14.51	11.72
2025-02-03	3.19	5.70	3.24	11.53	11.97	11.73
2025-02-04	3.22	3.28	3.24	11.53	11.97	11.73
2025-02-05	3.24	7.47	3.30	11.48	12.01	11.72
2025-02-06	3.24	3.46	3.29	11.53	11.97	11.73
2025-02-07	3.23	3.29	3.25	11.53	11.97	11.75
2025-02-08	3.24	3.28	3.25	11.62	11.97	11.77
2025-02-09	3.22	3.52	3.30	11.53	12.26	11.79
2025-02-10	3.23	3.42	3.30	11.62	12.01	11.80
2025-02-11	3.19	10.15	3.53	11.38	13.82	11.85
2025-02-12	3.21	3.28	3.23	0.00	13.28	11.78
2025-02-13	3.22	4.45	3.27	11.53	11.97	11.76
2025-02-14	3.27	3.34	3.30	11.38	12.21	11.78
2025-02-15	3.28	3.46	3.30	11.38	12.01	11.78
2025-02-16	3.28	3.46	3.31	11.28	12.01	11.76
2025-02-17	3.27	3.58	3.36	11.28	11.97	11.75
2025-02-18	3.31	3.37	3.33	11.28	11.97	11.73
2025-02-19	3.29	9.34	3.32	11.28	12.21	11.72
2025-02-20	3.29	3.35	3.30	11.23	12.21	11.73
2025-02-21	3.29	7.70	3.36	11.28	11.97	11.73
2025-02-22	3.36	3.41	3.38	11.28	11.97	11.71
2025-02-23	3.32	3.50	3.40	11.23	11.87	11.70
2025-02-24	3.31	5.51	3.40	11.23	11.87	11.70
2025-02-25	3.36	3.44	3.38	11.23	11.97	11.74
2025-02-26	3.40	3.47	3.42	11.28	11.97	11.76
2025-02-27	3.45	3.53	3.48	11.23	11.97	11.73
2025-02-28	3.47	3.73	3.54	11.23	11.87	11.70

Notes:

**Raw Water Specifications (Continued):**

Date	Raw Cond R ( $\mu\text{S}/\text{cm}$ )			Streaming Current		
	Min	Max	Average	Min	Max	Average
2025-02-01	112.61	114.52	113.57	-23.08	16.73	-13.27
2025-02-02	112.38	114.24	113.28	-326.62	161.54	-131.72
2025-02-03	112.25	114.25	113.24	-102.44	-13.31	-23.30
2025-02-04	112.51	114.31	113.44	-29.67	24.30	2.32
2025-02-05	112.64	114.55	113.60	-327.11	171.31	-100.43
2025-02-06	112.65	114.63	113.75	-327.59	163.00	-55.79
2025-02-07	113.02	114.95	113.95	-17.70	71.92	3.00
2025-02-08	113.38	115.06	114.19	-20.15	15.51	-7.95
2025-02-09	113.26	115.20	114.27	-324.18	182.30	-125.19
2025-02-10	113.46	115.28	114.33	-274.11	2.32	-13.91
2025-02-11	85.35	115.17	101.52	-22.34	31.62	1.77
2025-02-12	80.46	100.07	88.30	-62.88	22.59	7.57
2025-02-13	94.87	118.36	109.81	-6.23	26.25	11.46
2025-02-14	116.58	118.78	117.53	-59.22	59.46	40.27
2025-02-15	116.84	119.23	117.62	-316.36	80.46	-25.46
2025-02-16	116.88	119.00	117.69	-313.92	96.58	-15.55
2025-02-17	116.70	118.75	117.65	-310.26	175.70	-94.33
2025-02-18	116.87	119.07	117.66	-14.77	57.51	31.83
2025-02-19	116.43	119.43	117.88	8.91	43.10	22.49
2025-02-20	117.00	119.52	117.91	-95.36	40.17	27.09
2025-02-21	115.89	119.25	117.70	-319.78	103.17	-23.40
2025-02-22	116.75	119.01	117.58	9.89	41.39	22.85
2025-02-23	116.72	127.59	120.80	-313.19	105.13	7.26
2025-02-24	115.38	122.88	118.44	7.69	56.53	32.34
2025-02-25	115.10	117.77	116.07	-49.45	50.92	24.43
2025-02-26	115.01	117.25	115.96	12.33	52.63	35.93
2025-02-27	114.93	116.90	115.85	-195.24	108.30	26.66
2025-02-28	114.76	117.15	115.67	-321.49	124.42	-59.25

**Notes:**

## Raw Water Specifications (Continued):

Date	Coagulated pH			Coagulated Temp (°C)		
	Min	Max	Average	Min	Max	Average
2025-02-01	7.48	7.50	7.49	3.09	3.36	3.17
2025-02-02	7.47	7.72	7.56	3.15	4.21	3.36
2025-02-03	7.48	7.49	7.49	3.17	3.22	3.19
2025-02-04	7.47	7.49	7.49	3.20	4.13	3.39
2025-02-05	7.43	7.70	7.53	3.22	5.82	3.39
2025-02-06	7.45	7.66	7.52	3.28	4.08	3.38
2025-02-07	7.52	7.57	7.54	3.30	3.98	3.49
2025-02-08	7.57	7.58	7.57	3.36	3.58	3.40
2025-02-09	7.57	7.69	7.61	3.37	4.35	3.59
2025-02-10	7.45	7.58	7.52	3.23	5.06	3.33
2025-02-11	7.41	7.61	7.49	3.26	4.15	3.43
2025-02-12	7.44	7.47	7.45	3.24	3.47	3.31
2025-02-13	7.45	7.47	7.46	3.25	3.28	3.26
2025-02-14	7.45	7.47	7.46	3.26	4.21	3.45
2025-02-15	7.43	7.71	7.49	3.27	3.99	3.34
2025-02-16	7.42	7.68	7.47	3.27	3.80	3.33
2025-02-17	7.44	7.64	7.51	3.27	4.24	3.47
2025-02-18	7.45	7.48	7.47	3.30	4.07	3.50
2025-02-19	7.46	7.49	7.47	3.33	3.55	3.36
2025-02-20	7.45	7.47	7.46	3.34	3.36	3.35
2025-02-21	7.41	7.65	7.47	3.34	4.45	3.53
2025-02-22	7.44	7.46	7.45	3.35	3.57	3.39
2025-02-23	7.43	7.70	7.45	3.33	4.27	3.37
2025-02-24	7.43	7.45	7.45	3.34	4.31	3.49
2025-02-25	7.43	7.45	7.44	3.38	3.56	3.42
2025-02-26	7.43	7.44	7.43	3.40	4.26	3.55
2025-02-27	7.33	7.48	7.42	3.46	4.13	3.50
2025-02-28	7.33	7.65	7.45	3.50	4.42	3.69

Notes:

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## Raw Water Specifications (Continued):

Date	Raw Cond Y ( $\mu\text{S}/\text{cm}$ )			Raw Water DO (mg/L)		
	Min	Max	Average	Min	Max	Average
2025-02-01	110.45	111.76	111.12	10.38	10.64	10.52
2025-02-02	110.29	111.52	110.88	10.43	10.67	10.61
2025-02-03	110.13	110.67	110.45	10.56	10.71	10.63
2025-02-04	110.33	110.75	110.55	10.56	10.67	10.61
2025-02-05	110.66	111.65	110.98	10.40	10.55	10.52
2025-02-06	110.93	111.68	111.23	10.43	10.56	10.53
2025-02-07	111.18	111.60	111.38	10.52	10.56	10.54
2025-02-08	111.51	112.04	111.69	10.52	10.55	10.54
2025-02-09	112.01	112.97	112.32	10.39	10.57	10.53
2025-02-10	112.12	112.28	112.21	10.54	10.59	10.57
2025-02-11	112.17	112.97	112.48	10.53	10.61	10.55
2025-02-12	112.49	113.07	112.72	10.52	10.62	10.54
2025-02-13	112.38	113.28	112.72	10.47	10.53	10.49
2025-02-14	112.73	113.46	112.89	10.41	10.45	10.45
2025-02-15	112.81	113.35	112.96	10.38	10.45	10.42
2025-02-16	112.86	113.58	113.23	10.27	10.37	10.33
2025-02-17	112.81	113.94	113.38	10.11	10.36	10.29
2025-02-18	113.33	113.52	113.43	10.23	10.29	10.26
2025-02-19	113.29	113.52	113.39	10.18	10.22	10.20
2025-02-20	113.26	113.72	113.57	10.15	10.22	10.16
2025-02-21	113.40	114.22	113.72	10.04	10.16	10.13
2025-02-22	113.68	113.90	113.80	10.08	10.10	10.10
2025-02-23	113.54	113.94	113.72	10.04	10.08	10.06
2025-02-24	9.98	114.39	113.61	10.03	10.06	10.04
2025-02-25	113.99	114.20	114.08	10.03	10.16	10.07
2025-02-26	114.12	114.42	114.22	10.03	10.20	10.13
2025-02-27	114.31	114.59	114.45	10.08	10.15	10.11
2025-02-28	114.33	115.25	114.78	9.90	10.09	10.04

Notes:

### Train 1 Filter Turbidity (NTU):

Date	Filter 1			Filter 2			Filter 3		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-02-01	0.01	0.03	0.02	0.02	0.03	0.02	0.09	0.14	0.09
2025-02-02	0.01	0.03	0.02	0.01	0.02	0.02	0.08	0.10	0.09
2025-02-03	0.01	0.03	0.02	0.01	0.02	0.02	0.08	0.09	0.08
2025-02-04	0.02	0.04	0.03	0.01	0.03	0.02	0.07	0.11	0.08
2025-02-05	0.02	0.04	0.03	0.01	0.02	0.02	0.07	0.09	0.08
2025-02-06	0.02	0.03	0.03	0.01	0.02	0.01	0.07	0.08	0.07
2025-02-07	0.01	0.07	0.02	0.01	0.08	0.05	0.06	0.08	0.07
2025-02-08	0.01	0.02	0.02	0.06	0.08	0.07	0.06	0.08	0.07
2025-02-09	0.01	0.03	0.02	0.04	0.07	0.05	0.06	0.10	0.07
2025-02-10	0.01	0.02	0.02	0.03	0.04	0.04	0.06	0.08	0.07
2025-02-11	0.01	0.09	0.05	0.01	0.05	0.02	0.06	0.09	0.07
2025-02-12	0.06	0.08	0.07	0.01	0.04	0.02	0.06	0.07	0.06
2025-02-13	0.05	0.07	0.06	0.01	0.03	0.02	0.06	0.15	0.06
2025-02-14	0.01	0.06	0.03	0.01	0.03	0.02	0.06	0.13	0.07
2025-02-15	0.01	0.03	0.01	0.01	0.04	0.02	0.06	0.14	0.06
2025-02-16	0.01	0.02	0.01	0.02	0.03	0.02	0.06	0.12	0.06
2025-02-17	0.01	0.03	0.01	0.02	0.06	0.02	0.06	0.12	0.06
2025-02-18	0.01	0.03	0.02	0.02	0.04	0.02	0.06	0.09	0.06
2025-02-19	0.01	0.02	0.02	0.02	0.03	0.02	0.06	0.11	0.06
2025-02-20	0.01	0.02	0.02	0.01	0.04	0.02	0.05	0.07	0.06
2025-02-21	0.02	0.05	0.02	0.01	0.16	0.06	0.05	0.08	0.06
2025-02-22	0.01	0.02	0.02	0.06	0.13	0.08	0.05	0.07	0.05
2025-02-23	0.01	0.02	0.01	0.04	0.09	0.05	0.05	0.09	0.05
2025-02-24	0.01	0.02	0.02	0.01	0.05	0.03	0.05	0.07	0.05
2025-02-25	0.01	0.02	0.02	0.01	0.06	0.02	0.05	0.07	0.06
2025-02-26	0.01	0.02	0.02	0.01	0.07	0.02	0.06	0.07	0.06
2025-02-27	0.01	0.02	0.02	0.01	0.02	0.02	0.06	0.10	0.06
2025-02-28	0.01	0.04	0.02	0.01	0.06	0.02	0.06	0.08	0.07

**Notes:**

Filter 3 is off for the season;

## Train 2 Filter Turbidity (NTU)

Date	Filter 4			Filter 5			Filter 6		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-02-01	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-02	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-03	0.04	0.04	0.04	0.01	0.02	0.02	0.01	0.02	0.02
2025-02-04	0.04	0.04	0.04	0.01	0.03	0.02	0.02	0.04	0.02
2025-02-05	0.04	0.04	0.04	0.01	0.02	0.01	0.02	0.03	0.02
2025-02-06	0.04	0.04	0.04	0.01	0.01	0.01	0.02	0.03	0.02
2025-02-07	0.04	0.04	0.04	0.01	0.05	0.01	0.01	0.03	0.02
2025-02-08	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-09	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-10	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-11	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.03	0.02
2025-02-12	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.03	0.02
2025-02-13	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.02
2025-02-14	0.04	0.04	0.04	0.01	0.03	0.01	0.01	0.03	0.02
2025-02-15	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-16	0.04	0.04	0.04	0.01	0.02	0.02	0.01	0.02	0.01
2025-02-17	0.04	0.04	0.04	0.01	0.02	0.02	0.01	0.04	0.01
2025-02-18	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-19	0.04	0.04	0.04	0.01	0.03	0.01	0.01	0.02	0.01
2025-02-20	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.02
2025-02-21	0.04	0.04	0.04	0.01	0.13	0.05	0.01	0.03	0.02
2025-02-22	0.04	0.04	0.04	0.03	0.07	0.05	0.01	0.02	0.01
2025-02-23	0.04	0.04	0.04	0.02	0.04	0.03	0.01	0.02	0.01
2025-02-24	0.04	0.04	0.04	0.01	0.05	0.02	0.01	0.02	0.01
2025-02-25	0.04	0.04	0.04	0.01	0.03	0.02	0.01	0.02	0.01
2025-02-26	0.04	0.04	0.04	0.01	0.08	0.02	0.01	0.02	0.01
2025-02-27	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0.02	0.01
2025-02-28	0.04	0.04	0.04	0.01	0.03	0.01	0.01	0.02	0.01

**Notes:**

Filter 4 is off for the season

**UV Treatment:**

<b>Date</b>	<b>Average Flow (L/s)</b>	<b>Avg Validated Dose (mj/cm2)</b>	<b>Undosed Flow (ML)</b>
2025-02-01	51.67	14.01	0.0000
2025-02-02	84.44	22.00	0.0008
2025-02-03	82.31	22.00	0.0000
2025-02-04	55.86	15.25	0.0000
2025-02-05	63.81	16.84	0.0009
2025-02-06	84.43	21.99	0.0006
2025-02-07	84.34	22.00	0.0103
2025-02-08	50.22	13.67	0.0000
2025-02-09	84.99	22.00	0.0009
2025-02-10	109.49	22.00	0.0000
2025-02-11	86.04	22.00	0.0000
2025-02-12	83.79	22.00	0.0000
2025-02-13	83.19	22.00	0.0000
2025-02-14	76.03	20.78	0.0000
2025-02-15	64.56	17.97	0.0002
2025-02-16	52.93	14.07	0.0004
2025-02-17	85.38	22.00	0.0011
2025-02-18	85.76	22.00	0.0000
2025-02-19	85.88	22.00	0.0000
2025-02-20	68.81	18.14	0.0000
2025-02-21	86.04	22.00	0.0006
2025-02-22	82.96	21.69	0.0000
2025-02-23	93.08	22.00	0.0327
2025-02-24	97.64	22.00	0.0000
2025-02-25	92.55	22.00	0.0000
2025-02-26	81.44	21.18	0.0000
2025-02-27	62.83	16.27	0.0001
2025-02-28	90.81	22.00	0.0007

Monthly Total (ML): 0.0493

% of monthly water that was not UV treated: 0.027%

Notes:

## UV Transmittance %:

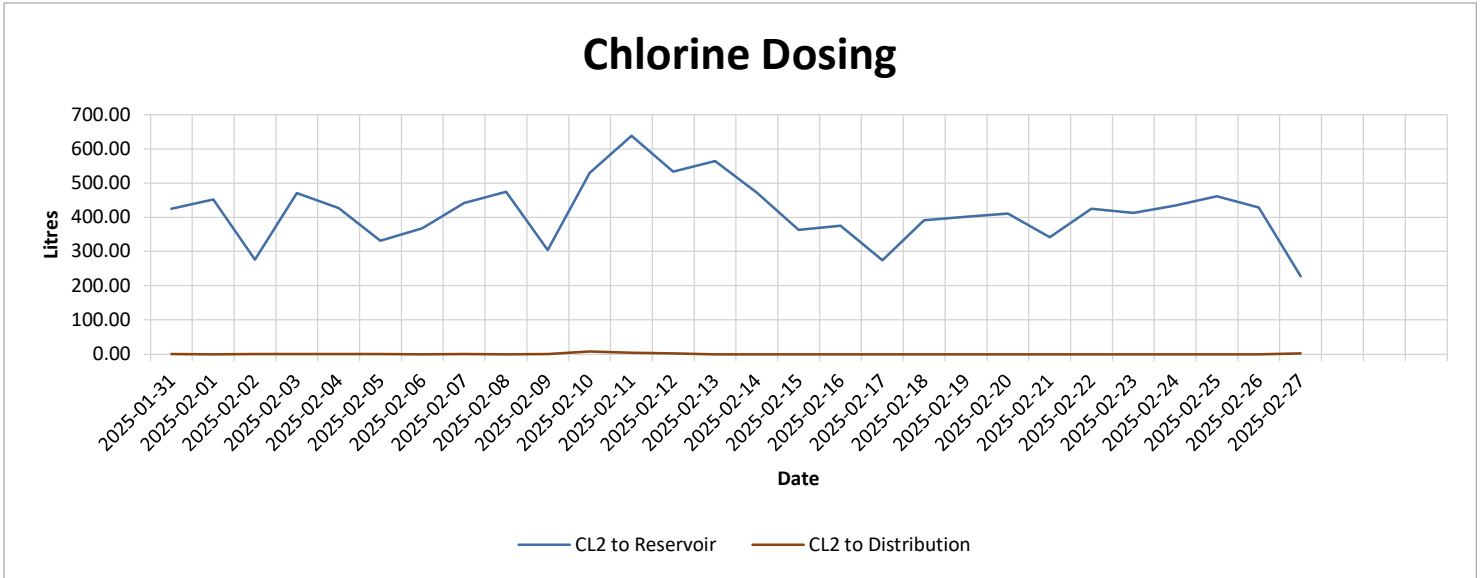
Date	Min	Max	Average
2025-02-01	87.06	88.67	87.82
2025-02-02	86.69	88.33	87.66
2025-02-03	86.89	88.74	87.57
2025-02-04	86.89	88.86	87.90
2025-02-05	86.98	88.62	87.99
2025-02-06	87.30	89.65	87.85
2025-02-07	87.42	88.91	88.15
2025-02-08	87.06	88.86	87.92
2025-02-09	87.06	88.33	87.78
2025-02-10	86.76	88.62	87.74
2025-02-11	87.03	88.82	88.09
2025-02-12	87.40	89.84	88.26
2025-02-13	87.40	88.69	88.13
2025-02-14	87.59	89.57	88.59
2025-02-15	87.55	89.23	88.52
2025-02-16	87.72	89.11	88.46
2025-02-17	87.47	89.40	88.43
2025-02-18	86.86	89.23	88.51
2025-02-19	87.89	89.30	88.48
2025-02-20	87.52	88.99	88.46
2025-02-21	87.64	89.47	88.70
2025-02-22	87.91	89.28	88.64
2025-02-23	87.59	89.28	88.51
2025-02-24	87.40	89.82	88.88
2025-02-25	87.84	89.69	88.76
2025-02-26	88.21	89.82	88.90
2025-02-27	87.89	89.18	88.60
2025-02-28	87.79	89.69	88.80

## Notes:

# Chemical Demand:

Chlorine Used:

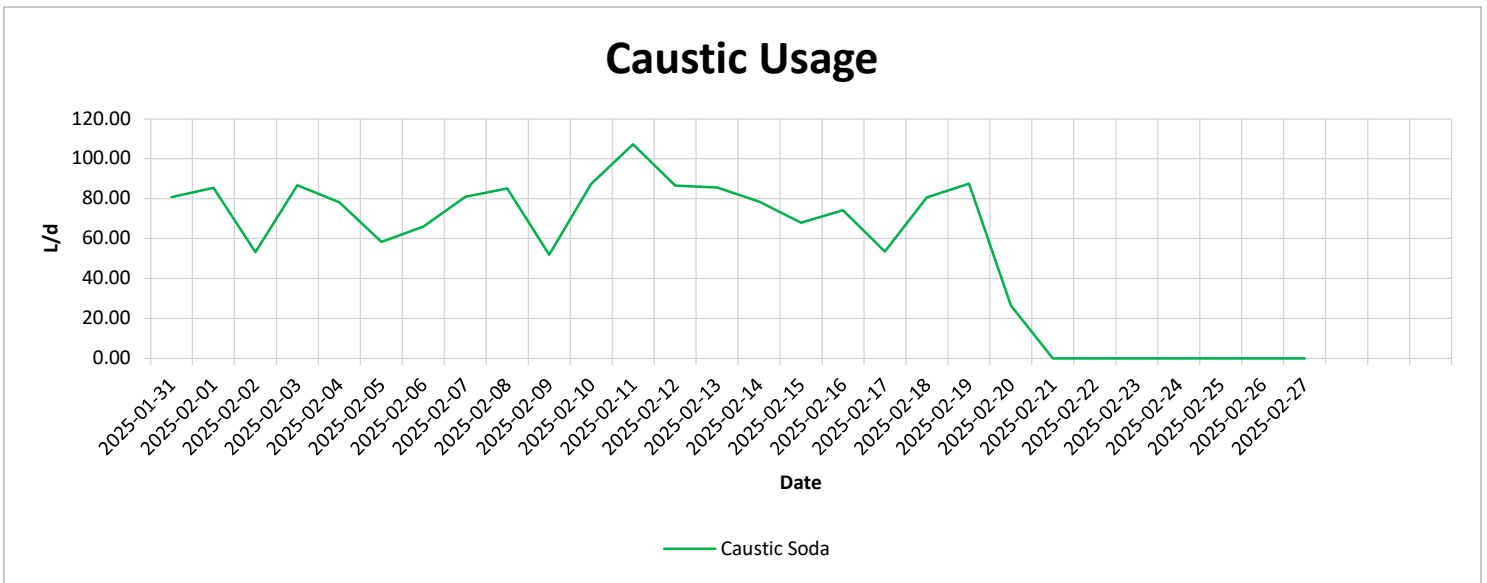
Total for Month  
11668.03 Litres



Notes:

Caustic Soda Used:

Total for Month  
1561.36 Litres



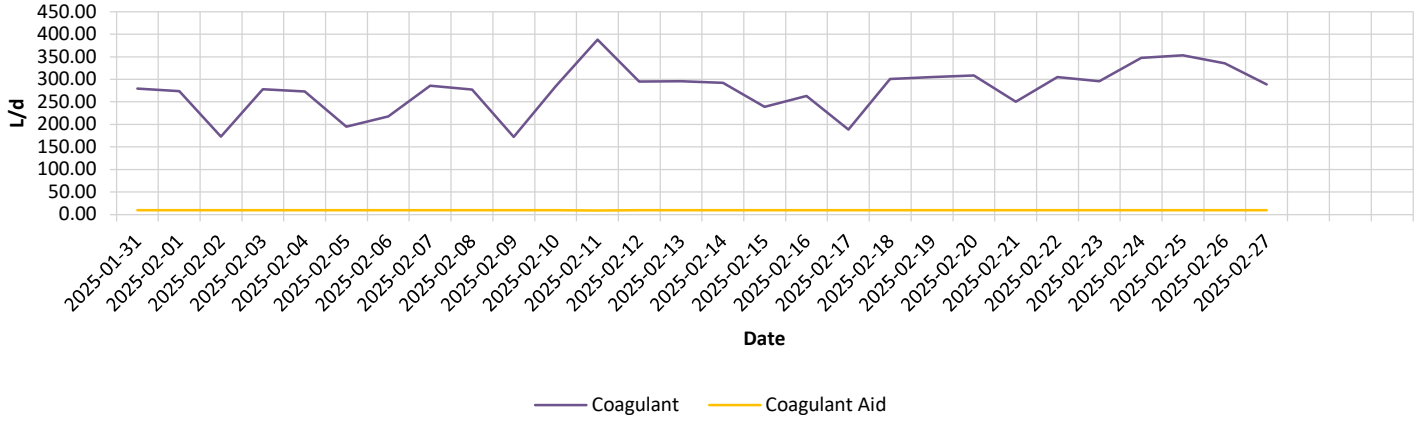
Notes:

Turned Caustic off on Feb 21st, 3 days before Quarterly LSI sampling to see impacts on distribution network.

**Coagulant Used:**  
**Coagulant Aid Used:**

**Total for Month**  
 7762.53 Litres  
 266.35 Litres

### Coagulant and Aid Usage



Notes:

**Polymer @ .2% Concentration:**

**Total for Month**  
 24783.59 Litres

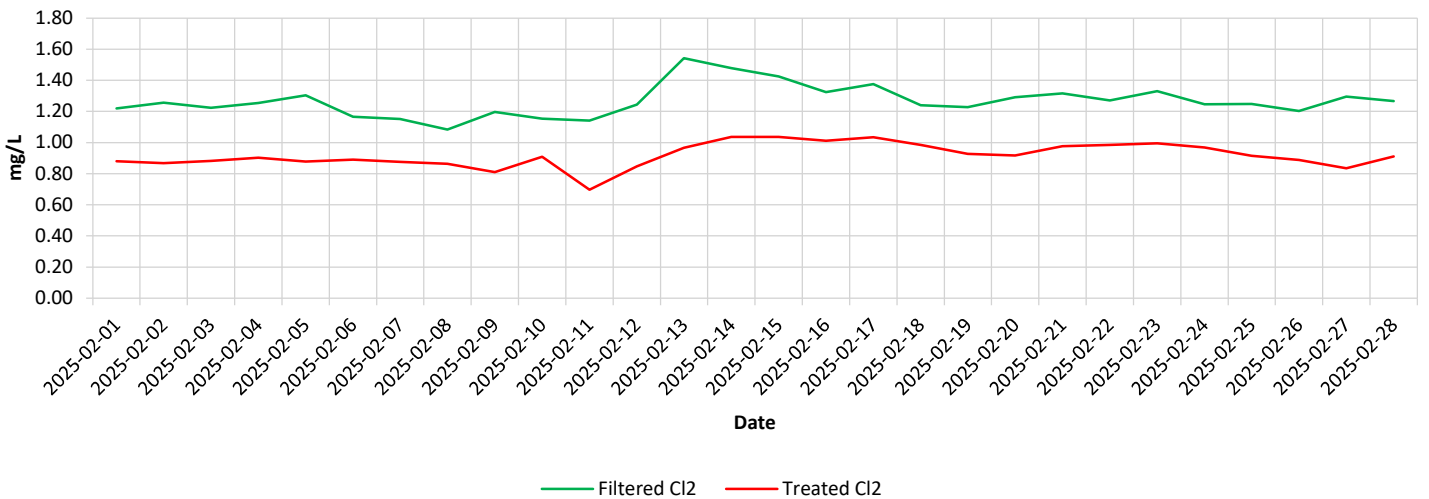
**Polymer @ .5% Concentration:**

**Total for Month**  
 21702.95 Litres

**Chlorine Dose**

Filtered Water Residual Cl<sub>2</sub> Average (mg/L): 1.27 mg/L  
 Treated Water (Distributed) Cl<sub>2</sub> Average (mg/L): 0.92 mg/L

### Average Residual Cl<sub>2</sub> Content



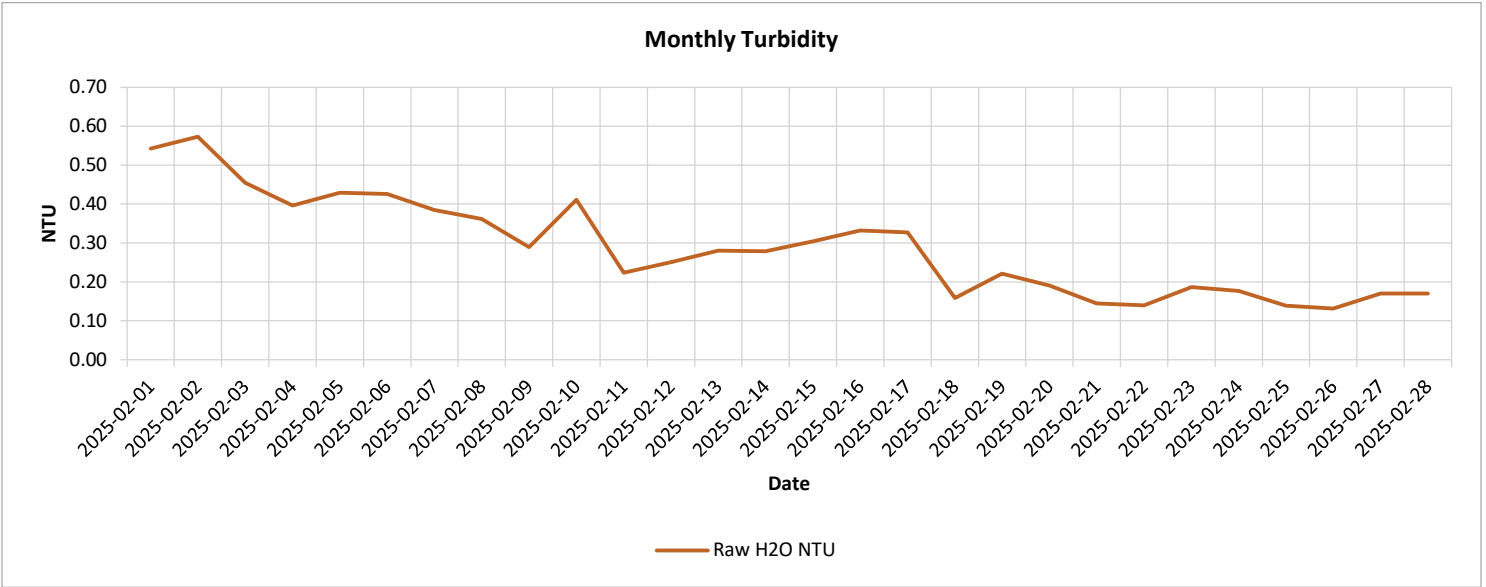
# Water Quality Analytics:

## Turbidity

Raw Water Monthly Average:

0.29

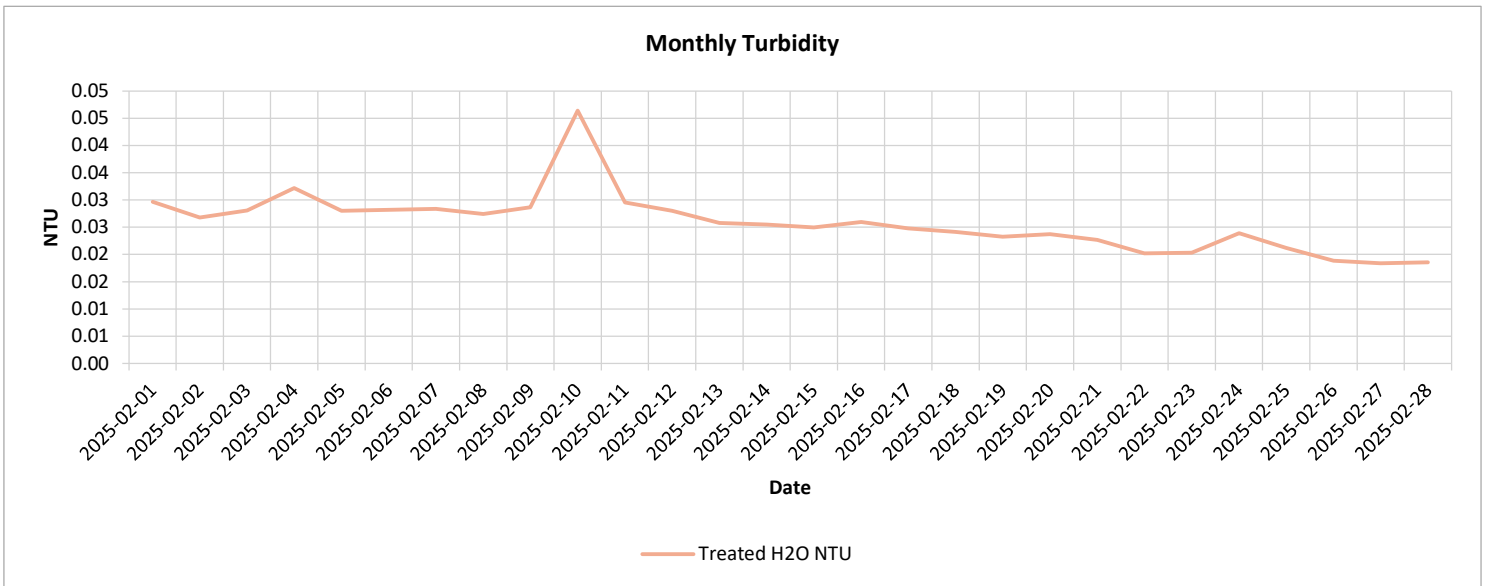
NTU



Treated Water Monthly Average:

0.03

NTU



### Notes:

Spike in Treated Water NTU during the 10" main break in the distribution network. Spiked up to 1.60 and dropped to <.1 after 20 mintues. Reported to IHA on February 11th.

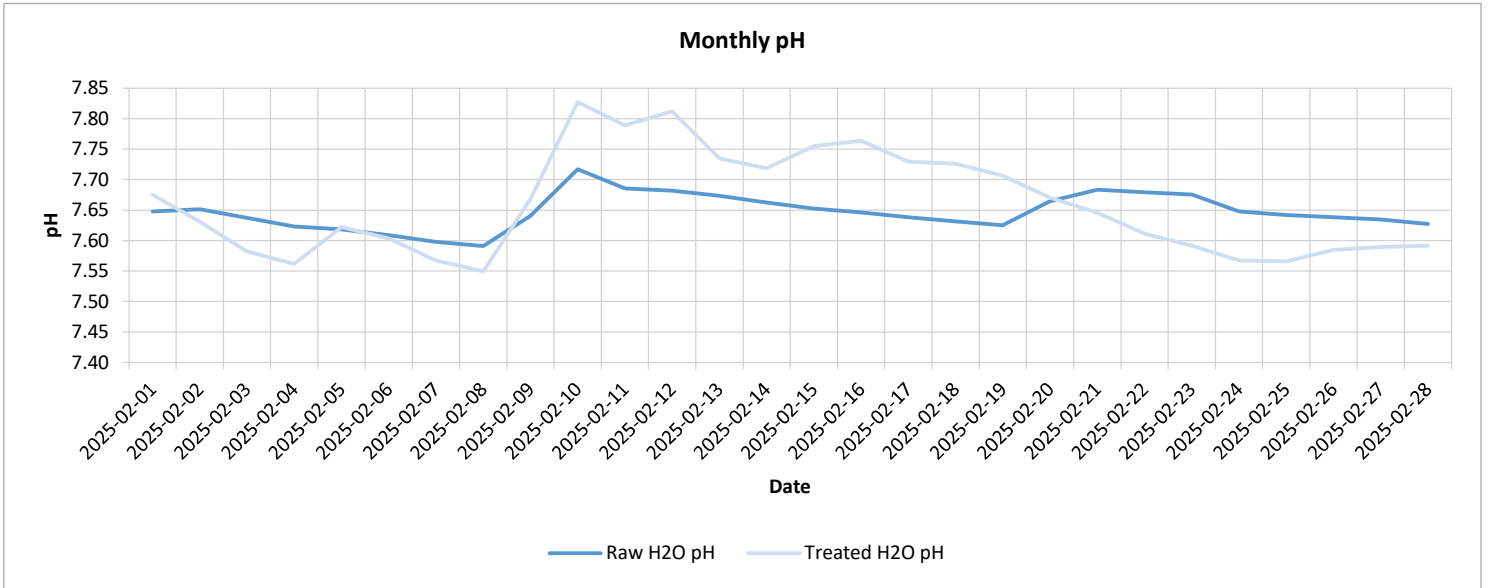
**pH**

Raw Water Monthly Average:

7.65 pH

Treated Water Monthly Average:

7.66 pH



**Notes:**

pH still stable with Caustic showing off.

## Rose Valley WTP Operational Highlights:

- Feb 04** - Checked and re-calibrated turbidity analyzers as necessary
- Feb 05** - Flush and Clean all pH probes and treated water housing, Started screw conveyor maintenance for centrifuge waste bin system. Compressor service from Wiseworth.
- Feb 06** - Flush and clean bulk hypo storage tanks 745 & 749
- Feb 07** - Clean out wye strainer on poly make down system for Daf, change out pilot filter set-up for main PRV in static mix room.
- Feb 10** - pH verifications, re-calibrated Raw & to distribution; Hudson Road 10" main break. Was leaking for approximately 1.5 hours before isolated. Lost 5 ML of water. NTU spike leaving reservoir 1.60 with flow demand going from 3MLD to 65MLD instantly.
- Feb 11** - Increase plant flow to help balance reservoirs and fill from water lost last night. Ran extra Q-Tray samples from Hudson road main break. Check and re-calibrate Chlorine analyzers to reservoir & to distribution.
- Feb 12** - Changed both CL2 membranes (to reservoir & to distribution)
- Feb 13** - Finish auger maintenance on centrifuge waste system. Hypochlorite delivery
- Feb 14** - Clean poly wye strainer to daf system.
- Feb 20** - Clean all Daf NTU housing, Turn caustic pH control off to prepare for quarterly samples next week
- Feb 21** - Clean all pH probes , clean poly wye strainer to daf system
- Feb 23** - Power loss event, recovered nicely after plant reset
- Feb 24** - Comprehensive quarterly samples sent to CARO for analysis
- Feb 25** - record all pump / motor hours
- Feb 27** - Lamella bi-annual tank cleanout and transfer sludge to sludge tanks

## Rose Valley Watershed Operational Highlights:

### Rose Valley

- Weekly Dam inspections
- Feb 5 ran generator and checked chamber for leaks

### BCI

- Feb 25 checked BCI and creek for flooding

## Definitions:

**CL2 to Reservoir:** Chlorine that is injected post Filtered Water Pumps into the 1050mm Main up to the onsite reservoir

**CL2 to Distribution:** Chlorine that is injected in the meter chamber to top up residual heading to Distribution if necessary.

**Undosed Flow:** Water that has gone through the UV reactor that cannot be verified the target dose has been reached.

**Filtered Water Residual:** Filtered water that leaves the plant and heads to the onsite treated water reservoir

**Treated Water Residual:** Treated water residual that is tested in the meter vault before it leaves site and heads to distribution.

Setpoint to set filter offline and trigger backwash = **0.25 NTU**

# WATER DISTRIBUTION



# Rose Valley Water Service Area - Distribution System Monitoring

February 2025

## Water Quality Data Review

- Based on the distribution system grab sample monitoring data it appears the water quality objectives were met for chlorine, turbidity and bacteriological parameters for the month.
  - Rosewood PS sample location has now replaced the RV Trails sample location on the weekly and quarterly sampling rounds. In addition to freezing challenges at the RV Trails sample station, the sample point in the pump station also has a new online water quality monitoring analyzer installed. The new monitoring location now measures the RVWSA distribution water for Free Chlorine Residual (FCR), Temperature, pH, ORP and Conductivity before the first customer of the network.
  - Vineyard View SS sample location has now replaced the Viognier PRV sample location on the weekly and quarterly sampling rounds as the Viognier PRV does not flow enough water under normal operation to best represent the water distributed to the area compared to the newly installed dedicated sample station installed in November 2024.
  - Note: Thacker sample station was frozen from Feb 5<sup>th</sup> to Feb 18<sup>th</sup> and despite efforts to thaw it out, samples were not able to be collected during that time.
  - Bacteriological Samples:
    - 41 samples to CARO for analysis
    - 12 samples analyzed in-house
    - All bacteriological samples came back at <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli*.
- February 5, 2025 – Re-chlorination hypo pump was discontinued as the FCR had been trending at a sufficient concentration above 1.0mg/L over the last two weeks.
- February 7, 2025 – Menu online analyzer FCR was calibrated.
- February 7, 2025 – Lakeview Cove online analyzer FCR was calibrated.
- February 12, 2025 – Lower Boucherie online analyzer FCR was calibrated.
- February 19, 2025 – Upper Boucherie Reservoir a chlorine analyzer was installed on the outlet in the pump station. The analyzer was from Lower Boucherie Reservoir pump station.
- February 20, 2025 – Blackwood online analyzer FCR was calibrated.
- February 21, 2025 – Rosewood online analyzer FCR was calibrated.
- February 25, 2025 – Quarterly sampling was done including THMs, HAA, TOC, Metals and LSI
- February 26, 2025 – Blackwood inlet online water quality analyzer was installed; parameters included are FCR, Turbidity, Temperature, pH, Conductivity, ORP.
- February 26, 2025 – Rosewood online analyzer FCR was calibrated.

## Sampling Location Table:

Sample Name	Civic Address	Pressure Zone	WQ Sampling Rationale
<b>Rosewood PS</b>	1463 Rosewood Dr	597	1 <sup>st</sup> Customer water quality check. Replaced the <b>RV Trails</b> sample location, due to winter freezing issues with the sample station.
<b>Menu PS</b>	Adjacent to 1181 Menu Dr	597	Mid system water quality check. Water quality entering the Mission Hill, Sunnyside, Pritchard and Green Bay areas from dedicated main from treatment plant.
<b>Blackwood PS</b>	1551 Blackwood Dr	584	Mid system water quality check. Water quality entering the West Kelowna Estates area.
<b>Thacker SS</b>	3111 Thacker Dr	539	End system water quality check.
<b>Shannon Way SS</b>	2240 Hihannah Dr	597	Mid system water quality check. Water quality for the Shannon Lake area.
<b>Lower Horizon SS</b>	2100 Horizon Dr	507	End system water quality check.
<b>Pritchard SS</b>	1599 Pritchard Dr	409	End system water quality check.
<b>Vineyard View SS</b>	Adjacent to 3284 Vineyard View Dr	588	Mid system water quality check. Location is after re-chlorination at the Upper Boucherie Reservoir. Replaced the <b>Viognier PRV</b> sample location.
<b>Lakeview Cove PS</b>	Adjacent to 3052 Lakeview Cove Rd	609	End system water quality check. Water quality distributed throughout Lakeview Heights area.

Note – the locations included in the monthly report are the samples that are tested regularly on a weekly basis but are 9 of 19 total grab sample locations taken throughout the system in the month.

**PS** = Pump Station

**SS**= Sample Station

## Operational System Improvements/Events

- February 5, 2025 – Hoar frost was affecting the level transmitter at Menu Reservoir, the sensor was insulated in a box for protection.
- February 10, 2025 – Hudson Main Break near 1107 Hudson Rd, total of 6 valves closed, 12 homes out of water (1009-1107 Hudson Rd). Note that a turbidity spike can be seen moving throughout the system due to this event; first seen at the Rosewood PS March 10<sup>th</sup> then at the Menu PS, Blackwood PS, Lakeview Cove SS March 11<sup>th</sup>. The 24 hour average for turbidity at all these locations did not exceed 1 NTU.
  - Boil Water Notice Issued to 24 homes on Hudson Rd (12 homes out of water and 12 homes lost some pressure)
  - February 11, 2025 – Road remediation plus gas main securement completed.
  - February 12, 2025 – Main was repaired. 12 homes out of water were restored.
  - February 15, 2025 – Boil water notice rescinded.
- February 24, 2025 – Menu pump station re-chlorination repaired; leaky fitting was replaced.
- February 25, 2025 – Boucherie pump station analyzer was serviced with utility EIT and then calibrated.
- February 26, 2025 – Rosewood ORP sensor was pulled and cleaned.

# WQ Field Data and Online Data

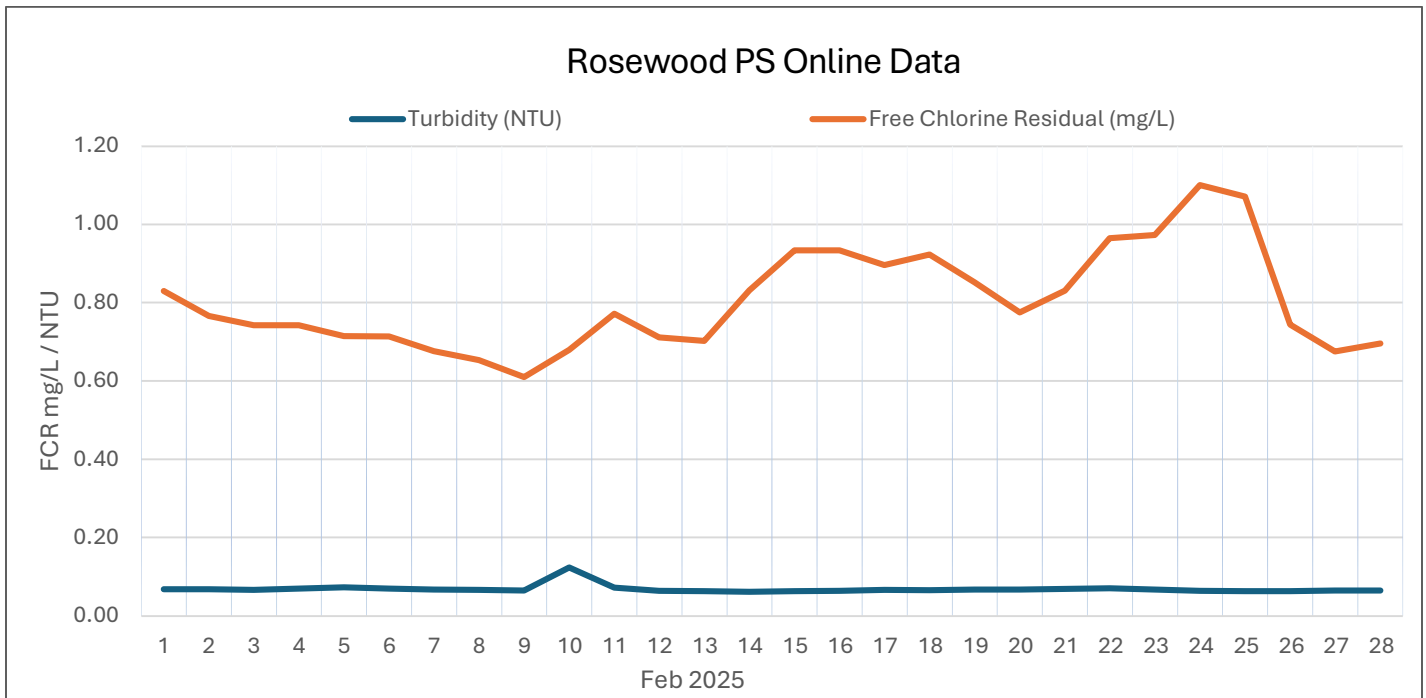
## Rosewood PS

### Rosewood PS Online Data

Date	Turbidity	Turbidity (Peak 1 Hr)	Free Chlorine Residual			Water Temp	pH	ORP
	Avg (NTU)	Max Based On 1 Hr Avg	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Avg (°C)	Avg (pH)	Avg (mV)
<b>Feb 2025</b>								
1	0.07	0.07	0.79	0.87	0.83	4.60	7.73	762
2	0.07	0.07	0.71	0.81	0.77	4.62	7.73	763
3	0.07	0.07	0.70	0.78	0.74	4.61	7.68	768
4	0.07	0.07	0.70	0.77	0.74	4.54	7.65	774
5	0.07	0.08	0.67	0.76	0.71	4.54	7.64	769
6	0.07	0.07	0.69	0.75	0.71	4.59	7.68	768
7	0.07	0.07	0.65	0.71	0.68	4.52	7.66	769
8	0.07	0.07	0.62	0.69	0.65	4.57	7.64	768
9	0.06	0.07	0.55	0.67	0.61	4.48	7.62	769
10	0.12	0.98	0.00	1.05	0.68	4.32	7.59	759
11	0.07	0.18	0.72	0.84	0.77	4.12	7.72	768
12	0.06	0.06	0.68	0.74	0.71	4.13	7.68	761
13	0.06	0.06	0.64	0.75	0.70	4.23	7.70	761
14	0.06	0.06	0.73	0.93	0.83	4.49	7.66	773
15	0.06	0.06	0.90	0.98	0.93	4.55	7.63	784
16	0.06	0.07	0.90	0.96	0.93	4.56	7.65	786
17	0.07	0.07	0.85	0.94	0.90	4.56	7.67	785
18	0.07	0.07	0.88	0.95	0.92	4.59	7.64	787
19	0.07	0.07	0.80	0.91	0.85	4.80	7.63	779
20	0.07	0.07	0.74	0.81	0.77	4.69	7.63	771
21	0.07	0.07	0.74	0.94	0.83	4.69	7.58	774
22	0.07	0.07	0.91	1.01	0.96	4.71	7.55	779
23	0.07	0.07	0.89	1.00	0.97	4.64	7.53	781
24	0.06	0.07	0.89	1.31	1.10	4.64	7.43	767
25	0.06	0.07	0.79	1.30	1.07	4.65	7.52	695
26	0.06	0.06	0.72	0.84	0.74	4.63	7.51	734
27	0.06	0.07	0.56	0.75	0.68	4.67	7.51	774
28	0.06	0.07	0.58	0.81	0.70	4.73	7.52	764
<b>Average</b>	0.07	0.10	0.71	0.88	0.80	4.55	7.62	767.56
<b>Min</b>	0.06	0.06	0.00	0.67	0.61	4.12	7.43	695.26
<b>Max</b>	0.12	0.98	0.91	1.31	1.10	4.80	7.73	786.86

### Rosewood PS WQ Field Data

Date	Turbidity		Water Temp	FCR		pH
	Grab Sample (NTU)	Online Sample (NTU)	Grab Sample (°C)	Grab Sample (mg/L)	Online Sample (mg/L)	Grab Sample
3-Feb-25	0.13	0.07	4.80	0.88	0.71	
5-Feb-25	0.13		4.50	0.91	0.71	7.64
7-Feb-25	0.13	0.07	4.50	0.79	0.66	7.67
10-Feb-25	0.13			0.80		
11-Feb-25	0.09		3.50	0.87		
12-Feb-25	0.12	0.06	3.90	0.80	0.72	
14-Feb-25	0.17	0.06	4.00	0.94		
18-Feb-25	0.22	0.07	4.30	1.08	0.90	7.65
20-Feb-25	0.15	0.06	4.10	0.81	0.77	7.73
25-Feb-25	0.10	0.10	4.40	0.92	1.24	7.56
28-Feb-25	0.07		4.68	0.78		7.52
<b>Average</b>	0.13	0.07	4.27	0.87	0.82	7.63
<b>Min</b>	0.07	0.06	3.50	0.78	0.66	7.52
<b>Max</b>	0.22	0.10	4.80	1.08	1.24	7.73



# Menu PS

## Menu PS Online Data

Date	Combined Flow Total From RV to Menu, Mission and Boucherie Res	Turbidity	Turbidity (Peak 1 Hr)	Water Temp	pH	ORP	Free Chlorine Residual		
	(m3)	Avg (NTU)	Max Based On 1 Hr Avg	Avg (°C)	Avg (pH)	Avg (mV)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
<b>Feb 2025</b>									
1	952	0.07	0.07	4.71	7.40	738	0.54	0.65	0.59
2	1212	0.07	0.07	4.82	7.42	739	0.55	0.62	0.58
3	906	0.07	0.07	4.75	7.41	740	0.51	0.59	0.54
4	1355	0.07	0.07	4.76	7.37	743	0.49	0.57	0.53
5	1222	0.07	0.08	4.60	7.34	742	0.51	0.57	0.54
6	1451	0.08	0.08	4.62	7.35	738	0.50	0.56	0.53
7	637	0.07	0.07	4.69	7.37	737	0.52	0.68	0.61
8	1352	0.07	0.07	4.72	7.35	735	0.59	0.66	0.62
9	1111	0.07	0.07	4.68	7.33	735	0.57	0.65	0.62
10	1110	0.07	0.07	4.68	7.32	733	0.54	0.64	0.58
11	1053	0.52	3.69	4.43	7.38	745	0.59	0.69	0.63
12	1436	0.11	0.14	4.43	7.41	732	0.60	0.68	0.64
13	996	0.13	0.22	4.61	7.39	728	0.57	0.63	0.60
14	1065	0.07	0.10	4.49	7.39	729	0.57	0.73	0.65
15	1036	0.08	0.10	4.41	7.34	745	0.72	0.85	0.80
16	1421	0.08	0.09	4.45	7.33	751	0.78	0.88	0.84
17	770	0.07	0.09	4.60	7.34	753	0.78	0.85	0.82
18	1771	0.10	0.22	4.44	7.35	751	0.77	0.88	0.82
19	939	0.08	0.10	4.67	7.33	749	0.76	0.85	0.81
20	1149	0.09	0.24	4.73	7.32	739	0.70	0.80	0.75
21	1554	0.08	0.13	4.76	7.31	735	0.67	0.74	0.70
22	969	0.08	0.09	4.74	7.27	738	0.67	0.79	0.72
23	1972	0.08	0.09	4.70	7.24	742	0.74	0.80	0.78
24	1094	0.08	0.09	4.70	7.22	742	0.76	0.81	0.78
25	1422	0.08	0.09	4.77	7.20	738	0.73	0.79	0.75
26	917	0.08	0.09	4.84	7.19	730	0.68	0.76	0.72
27	1177	0.07	0.07	4.76	7.19	728	0.68	0.74	0.71
28	1022	0.07	0.08	4.77	7.21	742	0.68	0.99	0.80
<b>Total</b>	33072								
<b>Average</b>	1181.14	0.10	0.23	4.65	7.32	739.17	0.63	0.73	0.68
<b>Min</b>	636.62	0.07	0.07	4.41	7.19	727.69	0.49	0.56	0.53
<b>Max</b>	1972.05	0.52	3.69	4.84	7.42	752.69	0.78	0.99	0.84

**Menu PS WQ Field Data**

Date	Turbidity Calibration Confirmation		Water Temp	FCR Calibration Confirmation		pH
	Grab Sample (NTU)	Online Analyser (NTU)	Grab Sample (°C)	Grab Sample (mg/L)	Online Sample (mg/L)	Grab Sample
3-Feb-25	0.12	0.08	4.8	0.63	0.54	7.42
5-Feb-25	0.16	0.07	5.2	0.65	0.51	
7-Feb-25	0.07	0.07	4.7	0.69	0.51	6.56
10-Feb-25	0.13	0.07	4.4	0.62	0.58	7.32
11-Feb-25	0.59		4.2	0.62		
12-Feb-25	0.15	0.11	4.7	0.67	0.63	7.43
14-Feb-25	0.1	0.08	4.8	0.61	0.62	7.4
18-Feb-25	0.07	0.16	4.4	0.96	0.79	7.36
20-Feb-25	0.12	0.08	5.6	0.77	0.73	7.77
25-Feb-25	0.05	0.07	4.7	0.8	0.72	7.47
<b>Average</b>	0.16	0.09	4.75	0.70	0.63	7.34
<b>Min</b>	0.05	0.07	4.2	0.61	0.51	6.56
<b>Max</b>	0.59	0.16	5.6	0.96	0.79	7.77

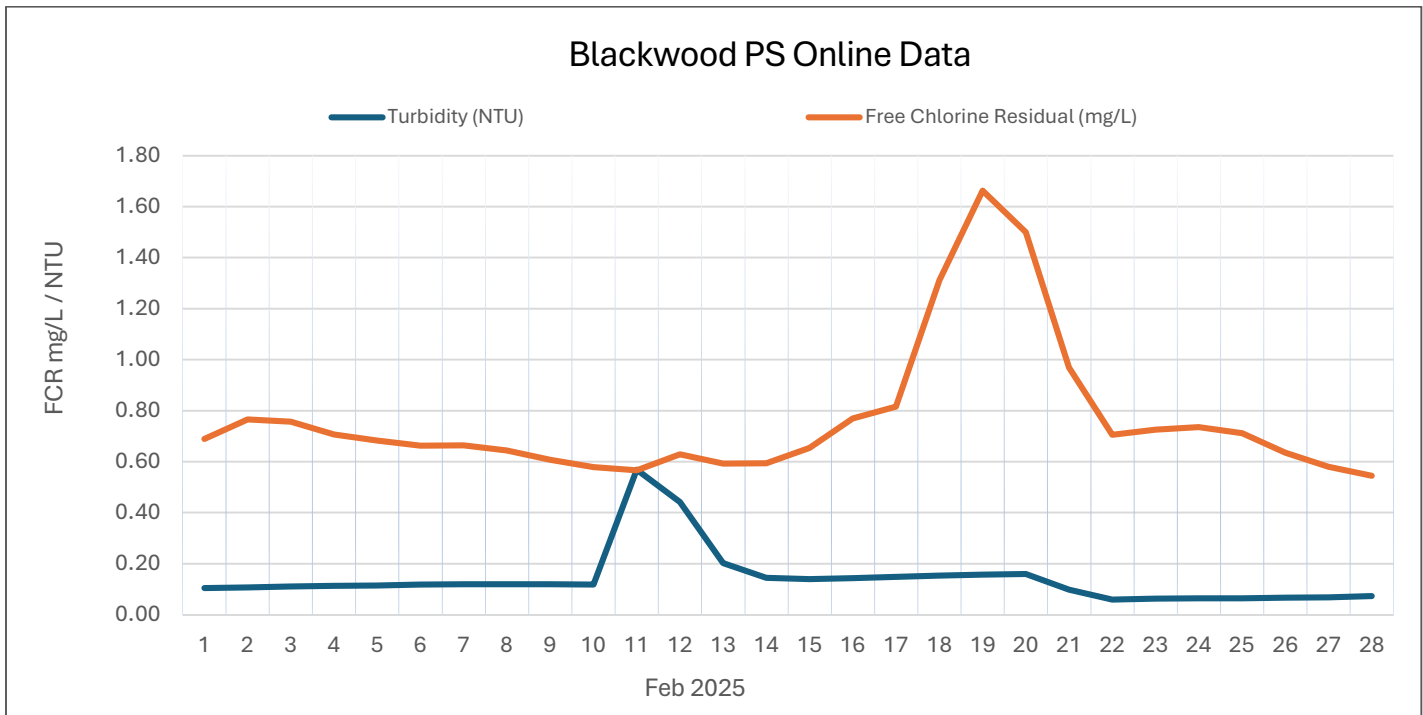
# Blackwood PS

## Blackwood PS Online Data

Date	RV To Blackwood Flow Total	Peak Flow	Turbidity	Turbidity (Peak 1 Hr)	Free Chlorine Residual			Water Temp	pH
	(m3)	Max (L/s)	Avg (NTU)	Max Based On 1 Hr Avg	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Avg (°C)	Avg (pH)
<b>Feb 2025</b>									
1	1014.0	35.6	0.10	0.11	0.64	0.75	0.69	5.09	7.71
2	1134.9	38.9	0.11	0.13	0.68	0.81	0.77	5.07	7.75
3	1028.1	36.6	0.11	0.12	0.67	0.80	0.76	4.82	7.78
4	961.0	32.7	0.11	0.12	0.63	0.73	0.71	4.84	7.76
5	983.2	36.6	0.11	0.12	0.59	0.71	0.68	4.65	7.73
6	964.1	37.5	0.12	0.12	0.58	0.70	0.66	4.74	7.71
7	941.7	35.7	0.12	0.12	0.60	0.69	0.66	4.61	7.74
8	998.7	35.1	0.12	0.12	0.56	0.68	0.64	4.71	7.73
9	1227.0	34.9	0.12	0.12	0.54	0.64	0.61	4.54	7.71
10	797.4	61.8	0.12	0.12	0.50	0.61	0.58	4.68	7.71
11	1128.6	87.1	0.57	1.01	0.52	0.63	0.57	4.49	7.73
12	1128.5	31.3	0.44	0.81	0.58	0.66	0.63	4.42	7.75
13	1160.0	36.6	0.20	0.22	0.51	0.63	0.59	4.40	7.82
14	845.7	32.9	0.14	0.15	0.53	0.65	0.59	4.55	7.80
15	900.7	36.5	0.14	0.14	0.60	0.75	0.65	4.55	7.78
16	990.1	38.7	0.14	0.16	0.72	0.80	0.77	4.69	7.75
17	1193.6	33.8	0.15	0.17	0.76	0.86	0.82	4.62	7.74
18	1103.4	36.5	0.15	0.16	0.80	5.21	1.31	4.75	7.76
19	953.4	33.7	0.16	0.16	1.55	1.76	1.66	4.68	7.77
20	1004.7	33.7	0.16	0.16	1.35	1.58	1.50	4.88	7.75
21	1077.1	36.8	0.10	0.16	0.69	1.40	0.97	4.78	7.74
22	1108.6	34.5	0.06	0.07	0.64	0.77	0.71	4.91	7.71
23	1253.7	39.6	0.06	0.07	0.66	0.78	0.73	4.86	7.67
24	1189.0	37.8	0.06	0.07	0.69	1.33	0.74	4.98	7.66
25	1329.1	35.6	0.06	0.07	0.62	0.81	0.71	4.97	7.64
26	1126.7	33.5	0.07	0.07	0.58	0.69	0.64	5.13	7.63
27	1208.5	33.4	0.07	0.07	0.52	0.63	0.58	5.05	7.63
28	1001.2	35.2	0.07	0.09	0.50	0.60	0.55	5.13	7.63
<b>Total</b>	29752.553								
<b>Average</b>	1062.59	38.30	0.14	0.18	0.67	0.99	0.77	4.77	7.72
<b>Min</b>	797.35	31.31	0.06	0.07	0.50	0.60	0.55	4.40	7.63
<b>Max</b>	1329.12	87.13	0.57	1.01	1.55	5.21	1.66	5.13	7.82

### Blackwood PS WQ Field Data

Date	Turbidity Calibration Confirmation		Water Temp	FCR Calibration Confirmation		pH
	Grab Sample (NTU)	Online Analyser (NTU)		Grab Sample (mg/L)	Online Sample (mg/L)	
3-Feb-25	0.10	0.11	4.80	0.60	0.75	7.76
5-Feb-25	0.11	0.11	4.50	0.53	0.68	7.70
7-Feb-25	0.19	0.12	4.60	0.63	0.67	7.70
10-Feb-25	0.18	0.12	4.60	0.57	0.58	7.68
12-Feb-25	0.50	0.50	4.50	0.69	0.63	7.77
14-Feb-25	0.21	0.14	4.40	0.58	0.58	7.79
18-Feb-25	0.17	0.15	4.80	0.80	0.82	7.73
20-Feb-25	0.08	0.16	5.00	0.70	1.47	7.66
25-Feb-25	0.07	0.06	5.08	0.61	0.73	7.62
28-Feb-25	0.15		4.70	0.69		7.45
<b>Average</b>	0.18	0.16	4.70	0.64	0.77	7.69
<b>Min</b>	0.07	0.06	4.40	0.53	0.58	7.45
<b>Max</b>	0.50	0.50	5.08	0.80	1.47	7.79



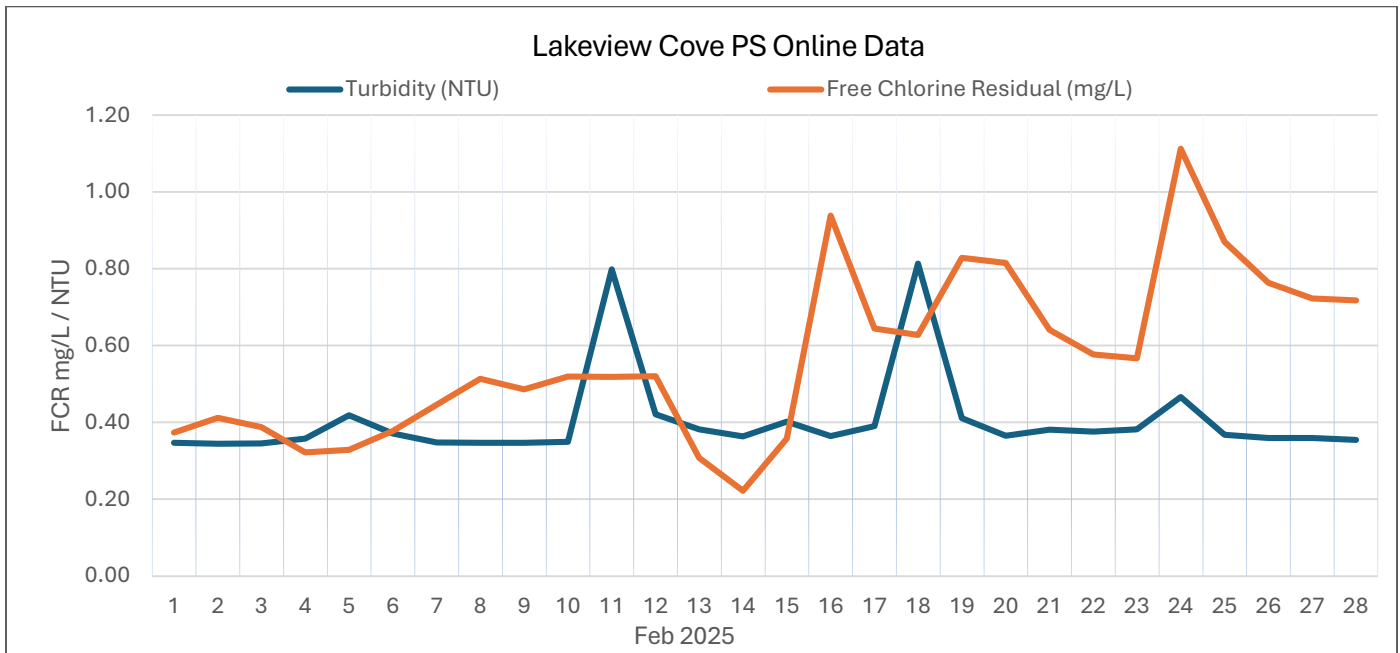
# Lakeview Cove PS

## Lakeview Cove PS Online Data

Date	Turbidity	Turbidity (Peak 1 Hr)	Free Chlorine Residual			Water Temp
	Avg (NTU)	Max Based On 1 Hr Avg	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Avg (°C)
<b>Feb 2025</b>						
1	0.35	0.39	0.26	0.53	0.37	8.10
2	0.34	0.35	0.25	0.53	0.41	8.58
3	0.34	0.35	0.35	0.44	0.39	8.48
4	0.36	0.58	0.23	0.40	0.32	8.39
5	0.42	0.71	0.30	0.35	0.33	7.80
6	0.37	0.73	0.28	0.42	0.38	6.69
7	0.35	0.35	0.34	0.54	0.45	7.06
8	0.35	0.35	0.48	0.55	0.51	7.10
9	0.35	0.35	0.45	0.52	0.49	7.07
10	0.35	0.36	0.47	0.87	0.52	6.98
11	0.80	5.28	0.31	0.64	0.52	5.87
12	0.42	0.51	0.43	0.57	0.52	6.66
13	0.38	0.39	0.25	0.43	0.31	7.05
14	0.36	0.37	0.18	0.25	0.22	7.13
15	0.40	0.81	0.18	1.29	0.36	6.75
16	0.36	0.38	0.85	1.09	0.94	6.57
17	0.39	0.40	0.50	0.85	0.64	7.06
18	0.81	4.11	0.46	0.91	0.63	6.73
19	0.41	0.54	0.63	0.94	0.83	6.52
20	0.37	0.38	0.72	0.87	0.81	6.70
21	0.38	0.41	0.57	0.72	0.64	6.92
22	0.38	0.39	0.54	0.62	0.58	6.87
23	0.38	0.58	0.51	0.82	0.57	6.81
24	0.47	1.06	0.72	1.85	1.11	6.33
25	0.37	0.39	0.80	1.02	0.87	6.71
26	0.36	0.36	0.73	0.83	0.76	6.74
27	0.36	0.37	0.68	0.77	0.72	6.74
28	0.35	0.38	0.64	0.84	0.72	6.52
<b>Average</b>	0.40	0.77	0.47	0.73	0.57	7.03
<b>Min</b>	0.34	0.35	0.18	0.25	0.22	5.87
<b>Max</b>	0.81	5.28	0.85	1.85	1.11	8.58

Lakeview Cove PS WQ Field Data

Date	Turbidity Calibration Confirmation		Water Temp	FCR Calibration Confirmation		pH
	Grab Sample (NTU)	Online Sample (NTU)	Grab Sample (°C)	Grab Sample (mg/L)	Online Sample (mg/L)	Grab Sample
03-Feb-25	0.26	0.35	8.50	0.57	0.39	
05-Feb-25	0.28	0.42	8.80	0.48	0.33	
07-Feb-25	0.08	0.35	7.10	0.53	0.34	6.92
11-Feb-25	0.39		6.40	0.62		
12-Feb-25	0.30	0.40	6.60	0.60	0.53	
14-Feb-25	0.18	0.36	7.10	0.21	0.22	
18-Feb-25	0.21	0.40	7.10	0.47	0.49	
20-Feb-25	0.14	0.35	6.50	0.91	0.82	
24-Feb-25	0.17	0.35	6.40	0.86	0.87	7.66
Average	0.22	0.37	7.17	0.58	0.50	7.29
Min	0.08	0.35	6.40	0.21	0.22	6.92
Max	0.39	0.42	8.80	0.91	0.87	7.66



# WQ Field Data

## Thacker SS

Thacker SS WQ Field Data

Date	Turbidity	Water Temp	FCR	pH
	Grab Sample (NTU)	Grab Sample (Deg C)	Grab Sample (mg/L)	Grab Sample
3-Feb-25	0.19	5.4	0.43	
5-Feb-25	FROZEN			
18-Feb-25	0.13	5.3	0.64	
20-Feb-25	0.13	5.6	0.52	7.6
25-Feb-25	0.08	4.9	0.51	7.54
<b>Average</b>	0.13	5.3	0.53	7.57
<b>Min</b>	0.08	4.9	0.43	7.54
<b>Max</b>	0.19	5.6	0.64	7.60

## Shannon Way SS

Shannon Way SS WQ Field Data

Date	Turbidity	Water Temp	FCR	pH
	Grab Sample (NTU)	Grab Sample (Deg C)	Grab Sample (mg/L)	Grab Sample
3-Feb-25	0.16	6.70	0.26	
10-Feb-25	0.08	3.90	0.43	
11-Feb-25	0.12	6.00	0.37	
18-Feb-25	0.10	4.20	0.58	
25-Feb-25	0.09	5.40	0.36	7.58
<b>Average</b>	0.11	5.24	0.40	7.58
<b>Min</b>	0.08	3.90	0.26	7.58
<b>Max</b>	0.16	6.70	0.58	7.58

## Lower Horizon SS

Lower Horizon SS WQ Field Data

Date	Turbidity	Water Temp	FCR	pH
	Grab Sample (NTU)	Grab Sample (Deg C)	Grab Sample (mg/L)	Grab Sample
3-Feb-25	0.09	5.20	0.42	
7-Feb-25	0.20	6.30	0.36	
10-Feb-25	0.16	5.40	0.43	
11-Feb-25	0.08	5.60	0.40	
14-Feb-25	0.61	5.40	0.49	
18-Feb-25	0.17	5.00	0.54	
20-Feb-25	0.13	5.50	0.63	7.40
25-Feb-25	0.11	4.30	0.45	7.39
<b>Average</b>	0.19	5.34	0.47	7.40
<b>Min</b>	0.08	4.30	0.36	7.39
<b>Max</b>	0.61	6.30	0.63	7.40

## Pritchard SS

Pritchard SS WQ Field Data

Date	Turbidity	Water Temp	FCR	pH
	Grab Sample (NTU)	Grab Sample (Deg C)	Grab Sample (mg/L)	Grab Sample
3-Feb-25	0.33	1.40	0.31	
5-Feb-25	0.35	7.00	0.29	
7-Feb-25	0.11	6.80	0.32	7.04
10-Feb-25	0.20	6.80	0.32	
11-Feb-25	0.13	5.50	0.23	
12-Feb-25	0.11	6.30	0.29	
14-Feb-25	0.21	5.10	0.27	
18-Feb-25	0.23	5.90	0.50	
20-Feb-25	0.11	6.20	0.42	7.65
25-Feb-25	0.11	5.30	0.34	7.61
<b>Average</b>	0.19	5.63	0.33	7.43
<b>Min</b>	0.11	1.40	0.23	7.04
<b>Max</b>	0.35	7.00	0.50	7.65

## Vineyard View SS

Vineyard View SS WQ Field Data

Date	Turbidity	Water Temp	FCR	pH
	Grab Sample (NTU)	Grab Sample (Deg C)	Grab Sample (mg/L)	Grab Sample
3-Feb-25	0.18	4.6	0.31	
10-Feb-25	0.13	6.7	0.42	
25-Feb-25	0.09	5.1	0.43	7.52
<b>Average</b>	0.13	5.47	0.39	7.52
<b>Min</b>	0.09	4.6	0.31	
<b>Max</b>	0.18	6.7	0.43	

## Disinfection Byproducts

Rose Valley Distribution System - THM Results (mg/L) MAC=0.10mg/L										
Date	RV Trails SS	Rosewood PS	Thacker SS	Shannon Way SS	Menu Rd PS	Pritchard SS	Viognier PRV	Vineyard View SS	Lower Horizon SS	Blackwood PS
14-Feb-24	0.058		0.071	0.081	0.069	0.088	0.099		0.080	0.056
13-May-24	0.028		0.034	0.043	0.032	0.038	0.069		0.037	0.038
08-Aug-24	0.133		0.130	0.141	0.129	0.143	0.155		0.175	0.140
28-Oct-24	0.061		0.078	0.082	0.076	0.086	0.175		0.078	0.075
27-Nov-24	0.043		0.056	0.061	0.068	0.075	0.097		0.064	0.074
25-Feb-25		0.040	0.047	0.055	0.044	0.063		0.055	0.053	0.048
Average	0.065	0.040	0.069	0.077	0.070	0.082	0.119	0.055	0.081	0.072
Rose Valley Distribution System - HAA5 Results (mg/L) MAC=0.08mg/L										
Date	RV Trails SS	Rosewood PS	Thacker SS	Shannon Way SS	Menu Rd PS	Pritchard SS	Viognier PRV	Vineyard View SS	Lower Horizon SS	Blackwood PS
14-Feb-24	0.037		0.042	0.043	0.042	0.051	0.042		0.042	0.041
13-May-24	0.022		0.021	0.024	0.023	0.030	0.024		0.027	0.025
08-Aug-24	0.129		0.129	0.137	0.125	0.116	0.114		0.128	0.127
28-Oct-24	0.043		0.049	0.059	0.045	0.030	0.075		0.049	0.058
27-Nov-24	0.042		0.044	0.055	0.046	0.035	0.047		0.056	0.055
25-Feb-25		0.031	0.037	0.037	0.033	0.042		0.040	0.041	0.037
Average	0.055	0.031	0.054	0.059	0.052	0.051	0.060	0.040	0.057	0.057

## Manganese

Rose Valley Water Service Area - Manganese Results (mg/L)						
Location	08-Aug-24	07-Oct-24	28-Oct-24	27-Nov-24	25-Feb-25	Average
Rv Trails	0.0059	0.0003	0.0058	0.0074		0.0049
Rosewood PS					0.0084	0.0084
Thacker SS	0.0045	0.0005	0.0056	0.0059	0.0022	0.0037
Bridgeview SS	0.0044	0.0002	0.0052			0.0033
Shannon Way SS	0.0061	0.0002	0.0046	0.0055	0.0028	0.0038
Tallus Res PS	0.0395	0.0027	0.0019			0.0147
Lakeview Cove PS	0.0056	0.0007	0.0051			0.0038
2201 Stevens Rd	0.0044	0.0005	0.0056			0.0035
Menu PS	0.0030	0.0004	0.0054	0.0061	0.0035	0.0037
Pritchard SS	0.0090	0.0007	0.0041	0.0087	0.0035	0.0052
Sunnyside SS	0.0080	0.0008	0.0082			0.0057
Vineyard View SS					0.0029	0.0029
Voignier PRV	0.0064	0.0006	0.0011	0.0046		0.0032
Upper Boucherie Res PS	0.0243	0.0010	0.0025			0.0093
Blackwood PS	0.0073	0.0003	0.0046	0.0055	0.0042	0.0044
McPhail PS	0.0177	0.0003	0.0045			0.0075
Lower Horizon SS	0.0050	0.0002	0.0040	0.0047	0.0025	0.0033
Pettman PS	0.0118	0.0003	0.0044			0.0055

MAC=0.12mg/L & AO=0.02mg/L