

### Whitevale Water Utility Water Quality Report for August 2022

The following is the water quality summary for the Whitevale Water (WVW) Utility.

### 1. Source

The WVW system draws raw water from a groundwater well, Well 2 (well plate identification number (WPID) 16643 and well tag number (WTN) 90803) which is then chlorinated and pumped into an in-ground concrete reservoir. Water is then pumped into the distribution system. Tables 1 and 2 summarize the results for bacterial and turbidity for the untreated water at the treatment plant.

Table 1 Whitevale Well 2 Bacteria

Parameter	Laboratory		# of Samples	# of Deviations	Result
E.coli <sup>1</sup>	Caro	CFU/100 mL	1		<1
Total Coliform <sup>1</sup>	Caro	CFU/100 mL	1		<1

<sup>&</sup>lt;sup>1</sup>Drinking Water Treatment Objectives (Microbiological) for Ground Water Supplies in BC (Sec 2.3): No detectable bacteria per 100 mL of drinking water. Where more than 1 sample is collected in a 30 day period the standard for total coliform is at least 90% of the samples may have no detectable total coliform per 100 mL and no sample has more than 10 total coliform bacteria per 100 mL.

## **Table 2 Whitevale Well 2 Turbidity**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Turbidity <sup>1</sup>	Operator Grab Sample	NTU	9		0.06	0.11	0.07

<sup>1</sup>WQ Deviation Response Plan - Turbidity > 1 NTU

#### 2. Treatment Plant

The Whitevale Water Utility utilizes chlorine disinfection only. Table 3 summarizes chlorine and turbidity levels from the sample line that comes off the reservoir outlet pipe that feeds the distribution system.

**Table 3 Whitevale Water Treatment Reservoir** 

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine <sup>2</sup>	SCADA <sup>1</sup> Daily Average	mg/L	31 Days		0.72	1.08	0.88
Turbidity <sup>2,</sup>	SCADA <sup>1</sup> Daily Average	NTU	31 Days		0.03	0.11	0.05

<sup>&</sup>lt;sup>1</sup>SCADA: Supervisory Control and Data Acquisition

### 3. Distribution

WVW provides potable water to 92 residential connections and 1 institutional connection (not in use, supplies storage for fire suppression). There are no large scale industrial or irrigation customers on this system. Table 4 summarizes the results for chlorine, turbidity, and bacteria for the distribution system. The monthly water volume used at Whitevale this month was  $7,133 \, \text{m}^3$ .

**Table 4 Whitevale Distribution Parameters** 

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine <sup>1</sup>	Operator Grab Sample	mg/L	21		0.66	1.04	0.86
Total Chlorine	Operator Grab Sample	mg/L	21		0.72	1.11	0.93
Turbidity <sup>1</sup>	Operator Grab Sample	NTU	21		0.06	0.11	0.08
E.coli	Caro	CFU/100 mL	6		<1	<1	<1
Total Coliform	Caro	CFU/100 mL	6	2 <sup>2</sup>	<1	5	1

<sup>&</sup>lt;sup>1</sup>WQ Deviation Response Plan - Free Chlorine <0.20 mg/L or >2.20 mg/L; Turbidity > 1.0 NTU

<sup>&</sup>lt;sup>2</sup>WQ Deviation Response Plan - Free Chlorine <0.20 mg/L; Turbidity > 1.0 NTU

<sup>&</sup>lt;sup>2</sup>Two samples had total coliform counts from Caro Laboratory; Whitevale Reservoir (1 CFU/100 mL) and Eastwood Road SS (5 CFU/100 mL). These sites were resampled and the results were non-detect.

### 4. Customer Calls and Notifications

Customer calls within the Whitevale Water Utility service area are tracked and recorded. There were no customer calls in August.

# 5. Operational or Maintenance Activity

Operational activities within the Whitevale Water service area are tracked and recorded. There were no distribution operational activities in August.