REGIONAL DISTRICT
NORTH OKANAGAN

# Whitevale Water Utility Water Quality Report for August 2025

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 | Units | # of Samples | # of Deviations | Result |
|---|---|---|---|---|---|
| E.coli[1] | Caro | MPN/100 mL | 1 | ----- | <1 |
| Total Coliform[1] | Caro | MPN/100 mL | 1 | ----- | <1 |

[1]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 | Units | # of Samples | # of Deviations | Min | Max | Average |
|---|---|---|---|---|---|---|---|
| Turbidity[1] | Operator Grab Sample | NTU | 7 | ----- | 0.09 | 0.15 | 0.12 |

[1]Operation Guideline: As outlined in Deviation Response Plan - turbidity <1.0 NTU.

## 2. Treatment Plant

The WVW 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 | Units | # of Samples | # of Deviations | Min | Max | Average |
|---|---|---|---|---|---|---|---|
| Free Chlorine[2] | SCADA[1] Daily Average | mg/L | 31 Days | ----- | 0.70 | 0.78 | 0.75 |
| Turbidity[2,] | SCADA[1] Daily Average | NTU | 31 Days | ----- | 0.04 | 0.30 | 0.06 |

[1]SCADA: Supervisory Control and Data Acquisition
[2]Operation Guideline: As outlined in Deviation Response Plan - free chlorine >0.20 mg/L; turbidity <1.0 NTU.

## 3. Distribution

The WVW Utility provides potable water to 92 residential connections and 1 institutional connection. 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 4,379 $m^3$.

### Table 4 Whitevale Distribution Parameters

| Parameter | Laboratory | Units | # of Samples | # of Deviations | Min | Max | Average |
|---|---|---|---|---|---|---|---|
| Free Chlorine[1] | Operator Grab Sample | mg/L | 16 | ----- | 0.61 | 0.74 | 0.68 |
| Total Chlorine | Operator Grab Sample | mg/L | 16 | ----- | 0.71 | 0.85 | 0.74 |
| Turbidity[1] | Operator Grab Sample | NTU | 16 | ----- | 0.11 | 0.32 | 0.15 |
| E.coli | Caro | CFU/100 mL | 4 | ----- | <1 | <1 | <1 |
| Total Coliform | Caro | CFU/100 mL | 4 | ----- | <1 | <1 | <1 |

[1]Operation Guideline: As outlined in Deviation Response Plan - free chlorine >0.20 mg/L; turbidity <1.0 NTU.

## 4. Customer Calls and Notifications

Customer calls within the WVW Utility service area are tracked and recorded. There were no customer calls this month.

## 5. Operational or Maintenance Activity

Operational activities within the WVW Utility service area are tracked and recorded. Table 5 summarizes the distribution operational activities this month.

### Table 5 Monthly Operational Work and Maintenance

| NUMBER OF LOCATIONS | TYPE OF WORK |
|---|---|
| 0 | Hydrant Maintenance |
| 0 | Water Service Locate |
| 0 | Water Main Break Repair |
| 0 | Water Service Install |
| 0 | Water Turn On/Off |
| 0 | Water Curb Stop Repair |
| 1 | Water Investigation |
| 0 | Leak Detection Investigation |
| 0 | Water Meter Install |
| 1 | Water Meter Inspection |
| 0 | Water Meter Maintenance |
| 0 | Water Meter Replacement |
| 1 | ERT Install |
| 0 | ERT Inspection |
| 0 | ERT Maintenance |
| 0 | ERT Replacement |