



## Grindrod Water (GRW) Water Quality Report for June 2025

The following is the water quality summary for the Grindrod Water (GRW) Utility.

### 1. Source

The GRW system draws raw water from the Shuswap River through a screened intake line to a wet well. The raw water is pumped from the wet well through a small treatment plant referred to as a package treatment plant and into a below ground storage reservoir. There is no elevated storage in the whole system and as a result pumps run continuously to maintain pressure. A generator was installed in 2024 to provide water during a power outage. Table 1 summarizes the bacterial and turbidity results for the untreated water at the treatment plant.

**Table 1 Grindrod Water Treatment Plant – Untreated**

Parameter	Laboratory	Units	# of Samples	# of Deviations	Result	Min	Max	Average
E.coli	CARO	MPN/100 mL	1	----	5	----	----	----
Total Coliform	CARO	MPN/100 mL	1	----	613	----	----	----
Turbidity	Operator Grab Sample	NTU	13	----	----	1.77	7.30	3.06
Turbidity	SCADA <sup>1</sup> Daily Average	NTU	30 Days	----	----	2.23	7.80	3.29

<sup>1</sup>SCADA: Supervisory Control and Data Acquisition.

### 2. Treatment Plant

The Grindrod package water treatment plant was designed for a filter flow rate of 66 U.S. gpm (4.2 liters per second) but is operated at about 53 U.S. gpm (3.3 Lps). The flow rate is determined by the operating speed of the pump in the wet well and meeting the turbidity guidelines. The treatment plant consists of a hydraulic flocculation chamber, a tube settler/clarifier and a mixed media filter. The plant discharge turbidity is typically below 0.2 NTU. Table 2 summarizes the results for chlorine and turbidity for the treated water at the treatment plant.

**Table 2 Grindrod Water Treatment Plant - Treated**

Parameter	Laboratory	Units	# of Samples	# of Deviations	Result	Min	Max	Average
Free Chlorine <sup>2</sup>	SCADA <sup>1</sup> Daily Average	mg/L	30 Days	----	----	1.30	2.53	1.86
Free Chlorine <sup>2</sup>	Operator Grab Sample	mg/L	13	----	----	1.21	1.86	1.57
Total Chlorine	Operator Grab Sample	mg/L	13	----	----	1.28	1.94	1.65
E.coli	CARO <sup>3</sup>	CFU/100 mL	2	----	----	<1	<1	<1
Total Coliform	CARO <sup>3</sup>	CFU/100 mL	2	----	----	<1	<1	<1
Turbidity <sup>2</sup>	SCADA <sup>1</sup> Daily Average	NTU	30 Days	----	----	0.03	0.18	0.06
Turbidity <sup>2</sup>	Operator Grab Sample	NTU	13	----	----	0.15	0.27	0.19

<sup>1</sup>SCADA: Supervisory Control and Data Acquisition.<sup>2</sup>Operation Guideline: As outlined in Deviation Response Plan - free chlorine >0.20 mg/L; turbidity <1.0 NTU.<sup>3</sup>Treatment Plant and Distribution bacterial samples are included in the required monthly bacterial sampling amounts as per Drinking Water Protection Regulations Schedule B.

### 3. Distribution

GRW provides potable water to 4 commercial, 3 institutional, 1 industrial, 1 recreational park, and 50 residential connections. The population served is approximately one hundred fifty (150). Table 3 summarizes the results for chlorine and turbidity for the distribution system from the following sample station locations: Fourth Ave, 135 3<sup>rd</sup> Ave, and James St. The amount of water volume used at Grindrod for June was 2951 m<sup>3</sup>.

**Table 3 Grindrod Distribution Parameters**

Parameter	Laboratory	Units	# of Samples	# of Deviations	Result	Min	Max	Average
Free Chlorine <sup>1</sup>	Operator Grab Sample	mg/L	13	----	----	1.18	2.00	1.56
Total Chlorine	Operator Grab Sample	mg/L	13	----	----	1.24	2.09	1.63
E.coli	CARO <sup>2</sup>	CFU/100 mL	2	----	----	<1	<1	<1
Total Coliform	CARO <sup>2</sup>	CFU/100 mL	2	----	----	<1	<1	<1
Turbidity <sup>1</sup>	Operator Grab Sample	NTU	13	----	----	0.15	0.47	0.24

<sup>1</sup>Operation Guideline: As outlined in Deviation Response Plan - free chlorine >0.20 mg/L turbidity <1.0 NTU.<sup>2</sup>Treatment Plant and Distribution bacterial samples are included in the required monthly bacterial sampling amounts as per Drinking Water Protection Regulations Schedule B.

#### 4. Water Quality Customer Calls and Notifications

Customer calls within the Grindrod Water Utility service area are tracked and recorded. There were two customer calls this month.

**Table 4 Water Quality Customer Calls for the month**

Issue/Inquiry	Investigation	Comments
Issue	No	Customer called RDNO due to a leak at their meter. RDNO replaced the leaking meter.
Inquiry	No	Customer inquired about GRW rates and debt repayment. This information was provided by RDNO.

#### 5. Operational or Maintenance Activity

Operational activities within the Grindrod Water service area are tracked and recorded. There was one distribution operational activity this month.

Table 5 outlines the routine distribution operational and maintenance activities during the month.

**Table 5 Monthly Operational Work and Maintenance**

NUMBER OF LOCATIONS	TYPE OF WORK
0	Standpipe Maintenance
0	Water Service Locate
0	Water Main Break Repair
0	Water Service Install/Inspection
0	Water Turn On/Off
0	Water Service and/or Curb Stop Repair
0	Water Meter/ERT Install
0	Water Meter/ERT Inspection
0	Water Meter/ERT Maintenance
1	Water Meter/ERT Replacement
0	Water Meter Manual Read
0	Water Investigation
0	Reservoir Cleaning