



# REGIONAL DISTRICT NORTH OKANAGAN

## Mabel Lake Water (MLW) Utility Water Quality Report for November 2025

The following is the water quality summary for the Mabel Lake Water Utility (MLW).

### 1. Source

The MLW system draws raw water from Mabel Lake through a screened intake line to a clear well. Water from the clear well is chlorinated and pumped into a 526-meter-long pipe which provides chlorine contact time. Water then flows into the distribution system. Table 1 summarizes the results for bacterial and turbidity for the untreated water at the treatment plant.

**Table 1 Mabel Lake Intake**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
E.coli <sup>3</sup>	RDNO Lab	CFU/100 mL	4	-----	<1	<1	<1
Total Coliform	RDNO Lab	CFU/100 mL	4	-----	<1	6.3	2.0
Turbidity <sup>2</sup>	SCADA <sup>1</sup> Daily Average	NTU	30	-----	0.20	0.23	0.22
Turbidity <sup>2</sup>	Operator Grab Sample	NTU	13	-----	0.13	0.30	0.24
UVT (unfiltered)	RDNO Lab	%	4	-----	90.6	91.8	91.4

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

<sup>2</sup>Operation Guideline: As outlined in Deviation Response Plan, turbidity < 1 NTU

<sup>3</sup>Drinking Water Treatment Objectives\_ BC (Sec 4.3): Determine number of raw water samples with E. coli >20 CFU. The number of E. coli in raw water does not exceed 20/100 mL in at least 90% of the weekly samples from the previous six months.

### 2. Treatment Plant

MLW utilizes chlorine disinfection only. Table 2 summarizes chlorine and turbidity levels from the pipe that flows into the distribution system.

**Table 2 Mabel Lake Water Treatment**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine <sup>2</sup>	SCADA <sup>1</sup> Daily Average	mg/L	30	-----	1.05	1.59	1.50

<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 and <2.20 mg/L; turbidity <1.0 NTU

### 3. Distribution

MLW provides potable water to 3 commercial and 373 residential connections. The majority of connected residents and all 3 commercial connections are seasonally occupied, with approximately 20 connections considered year-round or permanent. A Water System Capacity Assessment in 2025 estimated the population increases to an estimated three thousand one hundred and forty-five (3145) persons during peak summer months.

Table 3 summarizes the results for chlorine, turbidity, and bacteria for the distribution system. The monthly water volume used at Mabel Lake this month was 4225 m<sup>3</sup>.

**Table 3 Mabel Lake Distribution Parameters**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine <sup>1</sup>	Operator Grab Sample	mg/L	40	-----	0.37	1.24	0.81
Total Chlorine	Operator Grab Sample	mg/L	40	-----	0.42	1.39	0.90
Turbidity <sup>1</sup>	Operator Grab Sample	NTU	40	-----	0.09	0.37	0.26
E.coli	RDNO Lab	MPN/100 mL	4	-----	<1	<1	<1
Total Coliform	RDNO Lab	MPN/100 mL	4	-----	<1	<1	<1

<sup>1</sup>Operation Guideline: As outlined in Deviation Response Plan, free chlorine >0.20 mg/L and <2.20 mg/L; turbidity <1.0 NTU

### 4. Water Quality Customer Calls and Notifications

Customer calls within the Mabel Lake Water Utility service area are tracked and recorded.

There were three customer calls this month.

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

# of Calls	Issue/Inquiry	Investigation	Comments
1	Customer inquiring about connection requirements and cost	No	The customer was supplied with instruction on forms to submit and the associated cost of those applications.
1	Water leak in house	Yes	RDNO investigated and determined it was internal plumbing. It was recommended that the homeowner call a plumber.

## 5. Operational or Maintenance Activity

Operational activities within the Mabel Lake Water service area are tracked and recorded in Table 5. There were 16 operational activities this month.

**Table 5 Monthly Operational Work and Maintenance**

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