

## Outback Water System - Water Quality Report for October 2025

### 1. Source

The Outback water system consists of raw water pumps from Okanagan Lake, a screened intake, a booster station and a two-celled reservoir. The booster station houses the ultraviolet (UV) reactor, sodium hypochlorite injection (chlorine), instrumentation, and booster pumps. A raw (untreated) water sample is taken at the lake pump station once a month. Table 1 summarizes the results for bacterial, turbidity and UV Transmittance (UVT) for the untreated water at the lake pump station.

**Table 1 Outback Intake (untreated)**

Parameter	Laboratory		# of Samples	# of Deviations	Result	Min	Max	Average <sup>2</sup>
<b>E.coli<sup>1</sup></b>	RDNO Lab	MPN/100 mL	2 <sup>3</sup>	-----	-----	<1	<1	<1
<b>Total Coliform</b>	RDNO Lab	MPN/100 mL	2 <sup>3</sup>	-----	-----	2.0	6.2	4.1
<b>Turbidity</b>	Operator Grab Sample	NTU	1	-----	0.62	-----	-----	-----

<sup>1</sup>Drinking Water Treatment Objectives\_ BC (Sec 4.3): The number of E. coli in raw water should not exceed 20/100 mL in at least 90% of the samples from the previous six months.

<sup>2</sup>Averages using non detect samples use ½ the reporting limit for the calculation.

<sup>3</sup>Samples include a duplicate sample taken for quality assurance purposes.

### 2. Treatment Plant

The Outback water system uses UV and chlorine disinfection to meet dual disinfection goals. Table 2 summarizes results for chlorine, bacterial, turbidity, and UVT.

**Table 2 Outback Water Treatment Plant**

Parameter	Laboratory	Units	# of Samples	# of Deviations	Min	Max	Average
<b>Free Chlorine<sup>2</sup> (Reservoir)</b>	Operator Grab Sample	mg/L	5	-----	1.01	1.60	1.19
<b>Free Chlorine<sup>2</sup> (Reservoir)</b>	SCADA <sup>1</sup> Daily Average	mg/L	31 Days	-----	0.84	1.46	1.12
<b>Total Chlorine (Reservoir)</b>	Operator Grab Sample	mg/L	5	-----	1.13	1.85	1.40
<b>E.coli (Reservoir)</b>	Caro	CFU/100 mL	4	-----	<1	<1	<1
<b>Total Coliform (Reservoir)</b>	Caro	CFU/100 mL	4	-----	<1	<1	<1
<b>Turbidity<sup>2</sup> (Reservoir)</b>	Operator Grab Sample	NTU	5	-----	0.25	0.29	0.26
<b>Turbidity <sup>2</sup> (Reservoir)</b>	SCADA <sup>1</sup> Daily Average	NTU	31 Days	-----	0.14	0.16	0.15
<b>UVT (Unfiltered) Booster<sup>3</sup></b>	SCADA <sup>1</sup> Daily Average	%	31 Days	-----	88.83	90.89	89.98

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

<sup>2</sup>Operational guidelines based on GVW WQ Deviation Response Plan - free chlorine >0.50 mg/L turbidity <1 NTU.

<sup>3</sup>UVT (Unfiltered) is recorded continuously while booster is both on and off and is not always a representation of the raw water.

### 3. Distribution

The Outback water system is owned and operated by Greater Vernon Water, a service of the Regional District of North Okanagan. The water system supplies bulk water from the reservoir to the Outback Resort. The Outback Resort water distribution system is a “stand alone system” and the responsibility of the owner/ operator (Strata). Greater Vernon Water does not monitor the water quality within the Outback Resort water distribution system. Table 3 summarizes the daily flow rates for the month.

**Table 3 Monthly Supply Volumes for Outback System over the Month**

Volumes	Outback
Min (ML/Day)	0.00
Max (ML/Day)	0.28
Average (ML/Day)	0.04
Monthly Total (ML)	1.18

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

There were no water quality customer calls from the Outback Resort this month.