REGIONAL DISTRICT NORTH OKANAGAN

Outback Water System - Water Quality Report for January 2026

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[2]
E.coli[1]	RDNO Lab	MPN/100 mL	2[3]	-----	-----	<1	1.0	<1
Total Coliform	RDNO Lab	MPN/100 mL	2[3]	-----	-----	1.0	1.0	1.0
Turbidity	Operator Grab Sample	NTU	1	-----	0.39	-----	-----	-----

[1]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.
[2]Averages using non detect samples use ½ the reporting limit for the calculation.
[3]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
Free Chlorine[2] (Reservoir)	Operator Grab Sample	mg/L	4	-----	1.63	1.83	1.74
Free Chlorine[2] (Reservoir)	SCADA[1] Daily Average	mg/L	31 Days	-----	1.53	2.05	1.79
Total Chlorine (Reservoir)	Operator Grab Sample	mg/L	4	-----	1.87	2.02	1.95
E.coli (Reservoir)	Caro	CFU/100 mL	4	-----	<1	<1	<1
Total Coliform (Reservoir)	Caro	CFU/100 mL	4	-----	<1	<1	<1
Turbidity[2] (Reservoir)	Operator Grab Sample	NTU	4	-----	0.14	0.28	0.21
Turbidity [2] (Reservoir)	SCADA[1] Daily Average	NTU	31 Days	-----	0.12	0.15	0.14
UVT (Unfiltered) Booster[3]	SCADA[1] Daily Average	%	31 Days	-----	88.90	92.23	90.05

[1]SCADA: Supervisory Control and Data Acquisition.
[2]Operational guidelines based on GVW WQ Deviation Response Plan - free chlorine >0.50 mg/L turbidity <1 NTU.
[3]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)	0.30
Average (ML/Day)	0.04
Monthly Total (ML)	1.09

4. Water Quality Customer Calls and Notifications

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

Type of Call	Issue/Inquiry	Investigation	Comments
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