



**REGIONAL
DISTRICT
NORTH
OKANAGAN**

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 ² |
|---------------------|----------------------|------------|----------------|-----------------|--------|------|------|----------------------|
| E.coli ¹ | RDNO Lab | MPN/100 mL | 2 ³ | ---- | ---- | <1 | <1 | <1 |
| Total Coliform | RDNO Lab | MPN/100 mL | 2 ³ | ---- | ---- | 2.0 | 6.2 | 4.1 |
| Turbidity | Operator Grab Sample | NTU | 1 | ---- | 0.62 | ---- | ---- | ---- |

¹Drinking 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.

²Averages using non detect samples use ½ the reporting limit for the calculation.

³Samples 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 Chlorine² (Reservoir) | Operator Grab Sample | mg/L | 5 | ---- | 1.01 | 1.60 | 1.19 |
| Free Chlorine² (Reservoir) | SCADA ¹ Daily Average | mg/L | 31 Days | ---- | 0.84 | 1.46 | 1.12 |
| Total Chlorine (Reservoir) | Operator Grab Sample | mg/L | 5 | ---- | 1.13 | 1.85 | 1.40 |
| E.coli (Reservoir) | Caro | CFU/100 mL | 4 | ---- | <1 | <1 | <1 |
| Total Coliform (Reservoir) | Caro | CFU/100 mL | 4 | ---- | <1 | <1 | <1 |
| Turbidity² (Reservoir) | Operator Grab Sample | NTU | 5 | ---- | 0.25 | 0.29 | 0.26 |
| Turbidity² (Reservoir) | SCADA ¹ Daily Average | NTU | 31 Days | ---- | 0.14 | 0.16 | 0.15 |
| UVT (Unfiltered) Booster³ | SCADA ¹ Daily Average | % | 31 Days | ---- | 88.83 | 90.89 | 89.98 |

¹SCADA: Supervisory Control and Data Acquisition.²Operational guidelines based on GVW WQ Deviation Response Plan - free chlorine >0.50 mg/L turbidity <1 NTU.³UVT (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.