



**District of Lake Country**  
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**Water Quality Advisory:**

- Beaver Lake Source
- Oyama Lake Source

**1.0 Bacteriological**

Thirteen (13) bacteriological samples membrane filtration (MF) and two (2) Presence Absence (P/A) tests were collected in July from the Lake Country Water System (Beaver & Okanagan Lakes) all of which were negative for total coliforms and E. coli.

Fourteen (14) MF and eight (8) P/A bacteriological samples were collected in July from the Oyama water system (Oyama & Kalamalka Lakes). All samples collected were negative for total coliforms and E.coli.

Eight MF and two (2) P/A bacteriological samples were collected in July from the Coral Beach water system (Okanagan Lake). July 6 total coliforms were detected at the south end (1CFU/100mL) and pumphouse (3 CFU/100mL) and background growth (<200 CFU/100mL) detected at the pumphouse on July 20<sup>th</sup>. **All samples collected were negative for E. coli.**

Five (5) MF and two (2) P/A bacteriological samples were collected in July from the Lake Pine water system (Okanagan Lake). All samples collected were negative for total coliforms and E.coli

Results for all bacteriological samples are reported in Tables 1 and 2. Water quality results for physical and chemical parameters tested are in Table 3.

<b>Water System, Source</b>	<b>Tests (MF / P/A)</b>
Lake Country Water System, Beaver Lake Source:	6/1
Lake Country Water System, Okanagan Lake Source:	7/1
Lake Country Water System, Oyama Lake Source:	10/4
Lake Country Water System, Kalamalka Lake Source:	4/2
Coral Beach Water System, Okanagan Lake Source:	8/2
Lake Pine Water System, Okanagan Lake Source:	5/2



**Table 1. Bacteriological Results**

<b>Winfield Okanagan &amp; Oyama Water Systems</b>	<b>Source</b>	<b>Total Coliforms CFU/100mL</b>	<b>E.coli CFU/100mL</b>	<b>Dates Sampled</b>
Benchland	Beaver Lake	<1	<1	21
Camp Rd. Shop	Beaver Lake	<1	<1	8
Cooney	Beaver Lake	<1	<1	21
Cornwall	Kalamalka Lake	<1	<1	6, 22
Easthill	Oyama Lake	<1	<1	26, 27
Fire Admin	Beaver Lake	<1	<1	15
Glenmore	Okanagan Lake	<1	<1	5, 20, 27
Glenmore	Beaver Lake	<1	<1	20
Kal Pump House	Kalamalka Lake	<1	<1	6, 22
Lakes Cell #1	Okanagan Lake	<1	<1	22
Lakes Upper Reservoir	Okanagan Lake	<1	<1	21
McCreight	Beaver Lake	<1	<1	7
Oyama Road South	Oyama Lake	<1	<1	19, 26, 27
Oyama Creek Reservoir	Oyama Lake	<1	<1	7, 19, 26, 27
Ponderosa Pump House	Okanagan Lake	<1	<1	5
Ribbleworth	Oyama Lake	<1	<1	7
Shoreline	Okanagan Lake	<1	<1	5
<b>Coral Beach Water System</b>	<b>Source</b>	<b>Total Coliforms CFU/100mL</b>	<b>E.Coli CFU/100mL</b>	<b>Dates Sampled</b>
<b>Coral Beach South End B/O</b>	<b>Okanagan Lake</b>	<b>1</b>	<1	6
Coral Beach South End B/O	Okanagan Lake	<1	<1	9, 15
<b>Coral Beach Pumphouse</b>	<b>Okanagan Lake</b>	<b>3</b>	<1	6
Coral Beach Pumphouse	Okanagan Lake	<1	<1	9, 15, 20, 27
<b>Coral Beach Water System</b>	<b>Source</b>	<b>Background Colonies</b>		<b>Dates Sampled</b>
Coral Beach Pumphouse	Okanagan Lake	<200		20
<b>Lake Pine Water System</b>	<b>Source</b>	<b>Total Coliforms CFU/100mL</b>	<b>E.Coli CFU/100mL</b>	<b>Dates Sampled</b>
Lake Pine Pump House	Okanagan Lake	<1	<1	6, 15
Lake Pine PR Station	Okanagan Lake	<1	<1	6, 15
Lake Pine Upper Reservoir	Okanagan Lake	<1	<1	21



**Table 2. Bacteriological Results-Presence/Absence**

System/Site	Source	Total Coliforms	E.coli	Dates Sampled
<b>District of Lake Country</b>				
Camp Road Shop	Beaver Lake	<1	<1	29
Todd Road	Oyama Lake	<1	<1	13
Oyama Road South	Oyama Lake	<1	<1	19, 26
Oyama Intake Reservoir	Oyama Lake	<1	<1	26
Kal Pump Station	Kalamalka Lake	<1	<1	12, 26
McCoubrey	Okanagan Lake	<1	<1	12
<b>Coral Beach Water System</b>				
Coral Beach Pumphouse	Okanagan Lake	<1	<1	15, 27
<b>Lake Pine Water System</b>				
Lake Pine PR Station	Okanagan Lake	<1	<1	15
Lake Pine Pump House	Okanagan Lake	<1	<1	28

Additional MF samples were collected on both Beaver and Okanagan Sources in place of one PA on each source this month.

## 2.0 Chemical and Physical Parameters

Table 3 contains monthly water chemistry data collected at sites using the water quality hand-held equipment.

**Table 3. Water Quality: Chemical & Physical Parameters**

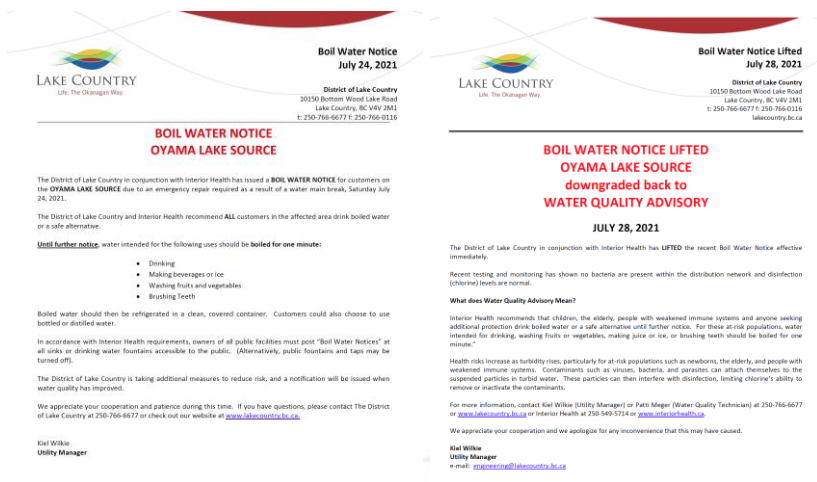
Lake Country Water System	Avg. Chlorine Residual	Avg. Turbidity (NTU)	Avg. Temp. (°C)	Avg. pH	Avg. Cond. (µS/cm)	*Apparent colour	Hardness mg/L CaCO <sub>3</sub>
Beaver Lk.-DS.	1.02	4.74	19.6	6.6	69		
Beaver Lk-Raw		1.27	19.3	7.6	62	40	
Ok. Lk – D.S.	1.35	0.30	11.8	7.9	286		
Ok. Lk – Raw		0.28	9.9	8.0	267		
Kal Lk – D.S.	1.35	0.65	13.0	7.9	366		
Kal Lk – Raw		0.53	11.9	8.1	347		
Oyama Lk-D.S.	2.29	1.54	18.6	6.4	53		
Oyama Lk-Raw		1.39	17.5	7.4	49	50	
Coral Beach Water System	Avg. Chlorine Residual	Avg. Turbidity (NTU)	Avg. Temp. (°C)	Avg. pH	Avg. Cond. (µS/cm)	Apparent colour	Hardness mg/L CaCO <sub>3</sub>
Ok.Lk – D.S.	0.88	0.41	14.5	7.9	302		
Ok.Lk -Raw		0.70	17.6	7.9	276		
Lake Pine Water System	Avg. Chlorine Residual	Avg. Turbidity (NTU)	Avg. Temp. (°C)	Avg. pH	Avg. Cond. (µS/cm)	Apparent colour	Hardness mg/L CaCO <sub>3</sub>
OK Lake – D.S.	1.32	0.38	12.6	7.7	290		
OK Lake - Raw		0.40	10.3	7.8	286		

\*\*True Colour results for Raw Water

**3.0 Notable Events:**

On the afternoon of July 24, 2021 Oyama Water Source Boil water notice was issued due to a line break and emergency repair at the South of End Middle Bench Road. Water Crews repaired the break and full water service in place by 8pm.

Required bacteriological sampling showed no detection of total coliforms or Ecoli and the Oyama system chlorine and turbidity returned back to normal conditions. On Wednesday July 28<sup>th</sup> the Boil Water Notice (BWN) was rescinded back to Water Quality Advisory following all procedures as required in our Potable Water Quality Emergency Response Plan and in conduction with IHA. If you are a sensitive customer and require notification in the event of an emergency please contact the DLC to sign up: [BCone@lakecountry.bc.ca](mailto:BCone@lakecountry.bc.ca) 778-738-2715



The DLC went to [stage 1 water restriction](#) in the first week of July. There may be further restrictions implemented end of August.

**Utilities - District of Lake Country**

90-80% of Average Conditions. Residential and commercial irrigation is permitted on alternating days:

- Even numbered addresses - even calendar days only
- Odd numbered addresses - odd calendar days only
- Underground systems with timers - alternate days only

DLC upland drinking water reservoirs are approximately 10% below average for this time of year. The DLC experienced an early season snow melt with warm spring conditions. We went on storage in these reservoirs approximately two weeks early. The DLC does not track weather conditions however this information can be found at the [Kelowna Airport - Past 24 Hour Conditions - Environment Canada](#)

