



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

- Beaver Lake Source (Okanagan Lake primary supply)
- Oyama Lake Source (Off line– Kalamalka Lake Primary supply. April 27<sup>th</sup> Oyama prepared for going on-line should it be required due to high system flows)

**1.0 Bacteriological**

Eleven (11) bacteriological samples membrane filtration (MF) and three (3) Presence Absence (P/A) tests were collected in Month from the Lake Country Water System (Beaver & Okanagan Lakes) all of which were negative for total coliforms and E.coli.

Four (4) MF and two (2) P/A bacteriological samples were collected in Month from the Oyama water system (Oyama & Kalamalka Lakes). All samples collected were negative for total coliforms and E.coli.

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

Four (4) MF and two (2) P/A bacteriological samples were collected in Month 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: Ok Primary/Supplemental mixed with OK	2/1
Lake Country Water System, Okanagan Lake Source:	9/2
Lake Country Water System, Oyama Lake Source: (Kal Primary: April 27 <sup>th</sup> mixed with Kal)	0/1
Lake Country Water System, Kalamalka Lake Source:	4/2
Coral Beach Water System, Okanagan Lake Source:	5/2
Lake Pine Water System, Okanagan Lake Source:	4/2

**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>
Cooney	Beaver Lake	<1	<1	7
Evans	Kalamalka Lake	<1	<1	20
Glenmore	Beaver Lake	<1	<1	7,
Glenmore (Beaver Lake Side)	Okanagan Lake	<1	<1	20
Glenmore	Okanagan Lake	<1	<1	7, 20
Lakes Cell	Okanagan Lake	<1	<1	19
Lakes Upper Reservoir	Okanagan Lake	<1	<1	12, 19
McCoubrey	Okanagan Lake	<1	<1	7
Northview	Okanagan Lake	<1	<1	26
Oyama Road North	Kalamalka Lake	<1	<1	13
Oyama Road South	Kalamalka Lake	<1	<1	13, 20
Oyama Reservoir	Kalamalka Lake	<1	<1	6
Shoreline	Okanagan Lake	<1	<1	19
<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>
Coral Beach South End B/O	Okanagan Lake	<1	<1	7, 19
Coral Beach Pumphouse	Okanagan Lake	<1	<1	7, 14, 19
<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	7, 19
Lake Pine PR Station	Okanagan Lake	<1	<1	7, 19

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

<b>System/Site</b>	<b>Source</b>	<b>Total Coliforms</b>	<b>E.coli</b>	<b>Dates Sampled</b>
<b><i>District of Lake Country</i></b>				
Pow Road	Beaver Lake	<1	<1	12
Oyama Intake Reservoir	Oyama Lake	<1	<1	27
Oyama Road North	Kalamalka Lake	<1	<1	12
Oyama Road South	Kalamalka Lake	<1	<1	20
Benchlands	Okanagan Lake	<1	<1	26
Lakes Upper Reservoir	Okanagan Lake	<1	<1	12
<b><i>Coral Beach Water System</i></b>				
Coral Beach Pump House	Okanagan Lake	<1	<1	14
Coral Beach South End	Okanagan Lake	<1	<1	29
<b><i>Lake Pine Water System</i></b>				
Lake Pine Pump House	Okanagan Lake	<1	<1	12, 28



## 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)	True colour
Beaver Lk.-DS.	1.24	0.87	7.0	7.1	91	
Beaver Lk-Raw		2.39	3.83	7.8	96	52
Ok. Lk – D.S.	0.69	0.36	8.5	8.2	280	
Ok. Lk – Raw		0.33	7.5	8.2	277	<5
Kal Lk – D.S.	1.01	0.62	6.9	8.3	392	
Kal Lk – Raw		0.73	5.2	8.1	210	85
Oyama Lk-D.S.	2.81	1.53	6.7	7.2	183	
Oyama Lk-Raw		2.02	5.1	7.8	53	
Coral Beach Water System	Avg. Chlorine Residual	Avg. Turbidity (NTU)	Avg. Temp. (°C)	Avg. pH	Avg. Cond. (µS/cm)	Apparent colour
Ok.Lk – D.S.	1.33	.034	8.5	8.0	384	
Ok.Lk -Raw		0.31	8.0	8.2	281	<5
Lake Pine Water System	Avg. Chlorine Residual	Avg. Turbidity (NTU)	Avg. Temp. (°C)	Avg. pH	Avg. Cond. (µS/cm)	Apparent colour
OK Lake – D.S.	1.44	0.28	7.8	8.2	317	
OK Lake - Raw		0.30	9.7	8.2	287	<5

\*\*True Colour results for Raw Water

## 3.0 Notable Events:

Irrigations lines turned on this month.

Early this month Okanagan Lake supply was the primary source for Beaver Lake customers. Due to increasing flows on the Oyama creek distribution lines it was necessary to prepare the Oyama reservoir should this source fully go on-line. April 27<sup>th</sup> and onwards the reservoir had mixed source water. It is completely dependant on flow as to the blend on these source waters.

