

B.C. Aquifer - Duncan
*A
5420 Trans Canada Hwy
Duncan, BC
V9L 6W4

S# - P/U

TEL: (250) 748-4041
email: info@bcaquifer.ca

22Aug25 3:17p
Source: FWS
Type of Sample: Water
No. of Samples: 1

W189301

Arrival temp.: 4.4C
Sampler: Cowichan Bay Waterworks

<u>Site Code</u>	<u>Date</u>	<u>Time</u>	<u>CFU/100 ml</u>		<u>CFU/100 ml</u>		<u>CFU/100 ml</u>
			<u>TC</u>	<u>T-NC</u>	<u>FC</u>	<u>F-NC</u>	<u>E.coli</u>
1 4361 Telegraph Rd	21Aug25	3:30p	0	0	0	0	0
4361 Telegraph Rd	DUP		0	0	0	0	0

TC = total coliform bacteria
FC = fecal coliform bacteria (aka thermotolerant coliforms)
NC = non-coliform bacteria
CFU/100 ml = colony forming units per 100 milli-litres

Results may be adversely affected if samples are submitted to the laboratory more than 24 to 30 hours after collection.

E. coli = Escherichia coli, FDA/BAM 9th ed, Oct 2020
Bergey's Manual of Systematic Bacteriology vol 1, AOAC 1984; J.Clin.Micro.,
J.Intern.System.Bact.

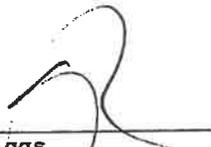
Comments:

For Interpretation of Results:

Total or Fecal Coliforms present greater than 0 CFU/100mL (0 CFU/mL):
IF Coliform numbers exceed safe limits for drinking water-
water is not suitable for drinking without treatment.

Total Non-coliform bacteria (=Lactose Fermentors) equal to or greater than
200 CFU/100mL (2.0 CFU/mL):
IF the number of organisms present exceed recommended guidelines for
drinking water; treatment is strongly recommended.

- See following page for chemistry results -


W. Riggs
Sr. Microbiologist

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EMAILED
AUG 28 2025
1:48PS

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CF

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S# - P/U

22Aug25 3:17p
Source: FWS
Type of Sample: Water
No. of Samples: 1

W189301 pg2

TEL: (250) 748-4041
email: info@bcaquifer.ca

Arrival temp.: 4.4C
Sampler: Cowichan Bay Waterworks

Sample: 4361 Telegraph Rd 21Aug25 3:30p

<u>ELEMENTS</u>		<u>SAMPLE</u>	<u>UNITS</u>	<u>Maximum Limits In Drinking Water*</u>
1)	Aluminium Al	<0.010	mg/L	no limit listed
2)	Antimony Sb	<0.500	ug/L	6.00 ug/L
3)	Arsenic As	1.49	ug/L	10.0 ug/L
4)	Barium Ba	<0.009	mg/L	2.00 mg/L
5)	Beryllium Be	<0.003	mg/L	no limit listed
6)	Boron B	<0.050	mg/L	5.00 mg/L
7)	Cadmium Cd	<0.010	ug/L	7.00 ug/L
8)	Calcium Ca	20.7	mg/L	200 mg/L
9)	Chromium Cr	<0.003	mg/L	0.050 mg/L
10)	Cobalt Co	<0.005	mg/L	no limit listed
11)	Copper Cu	<0.008	mg/L	1.00 mg/L
12)	Gold Au	<0.040	mg/L	no limit listed
13)	Iron Fe	0.011	mg/L	0.300 mg/L
14)	Lanthanum La	<0.020	mg/L	no limit listed
15)	Lead Pb	<0.500	ug/L	5.00 ug/L
16)	Magnesium Mg	8.98	mg/L	50.0 mg/L
17)	Manganese Mn	<0.004	mg/L	0.120 MAC 0.020 AO
18)	Mercury Hg	<0.010	ug/L	1.00 ug/L
19)	Molybdenum Mo	0.049	mg/L	no limit listed
20)	Nickel Ni	<0.004	mg/L	no limit listed
21)	Phosphorus P	0.023	mg/L	no limit listed
22)	Potassium K	0.900	mg/L	no limit listed
23)	Scandium Sc	<0.050	mg/L	no limit listed
24)	Selenium Se	<0.500	ug/L	5.0 ug/L
25)	Silicon Si	19.9	mg/L	no limit listed
26)	Silver Ag	<0.010	mg/L	no limit listed
27)	Sodium Na	6.20	mg/L	200 mg/L
28)	Strontium Sr	0.050	mg/L	no limit listed
29)	Tin Sn	<0.020	mg/L	no limit listed
30)	Titanium Ti	<0.010	mg/L	no limit listed
31)	Tungsten W	<0.050	mg/L	no limit listed
32)	Vanadium V	<0.010	mg/L	no limit listed
33)	Zinc Zn	0.007	mg/L	5.00 mg/L
	Hardness (mg/L CaCO ₃)	88.7	mg/L	75-150 mg/L = moderately hard
	pH	7.85	units	7.0 to 10.5

* As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92, & 390 Sch 120, 2001. Task Force of the Canadian Council of Resource and Environment Ministers - Guidelines for Canadian Drinking Water Quality, 2020.

Comments:

All constituents tested meet Canadian and B.C. drinking water standards.

R. Bilodeau
Analytical Chemist

H. Hartmann
Sr. Analytical Chemist

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B.C. Aquifer - Duncan S# - P/U
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Duncan, BC
V9L 6W4

22Aug25 3:17p W189301 pg3
Source: FWS
Type of Sample: Water
No. of Samples: 1

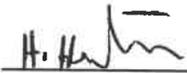
TEL: (250) 748-4041
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Arrival temp.: 4.4C
Sampler: Cowichan Bay Waterworks

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>T&L</u> <u>(mg/L)</u>	<u>TDS</u> <u>(mg/L)</u>
1 4361 Telegraph Rd Lab Blank	21Aug25	3:30p	ND ND	125 ND
So			0.070	0.010
REF. VALUE			1.00	200
STD 2SD			1.05 0.045	205 13.2

SD = standard deviation; REF VALUE = primary or secondary reference material
STD = secondary standard calibrated to primary standard reference material
So = standard deviation at zero analyte concentration; method detection limit
is generally considered to be 3x So value
ND = none detected n/a = not applicable

R. Bilodeau
Analytical Chemist



H. Hartmann
Sr. Analytical Chemist

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Handwritten mark

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Date: 22Aug25 3:17p No.: W189301 pg4
 Source: FWS
 Type of Sample: water
 No. of Samples: 1
 Arrival temp.: 4.4C
 Sampler: Cowichan Bay Waterworks

Sample: 4361 Telegraph Rd. - 21Aug25 3:30p

VOLATILE ORGANIC COMPOUNDS

	Sample 1	Lab Blank		Sample 1	Lab Blank
Compounds	(ug/L)	(ug/L)	Compounds	(ug/L)	(ug/L)
Diethylether	<0.100	ND	2-Nitropropane	<0.100	ND
1,1-Dichloroethene	<0.100	ND	cis-1,3-Dichloro-1-Propene	<0.100	ND
1,2,2-Trichlorotrifluoroethane	<0.100	ND	Toluene	<0.100	ND
Iodomethane	<0.100	ND	Tetrachloroethylene	<0.100	ND
Carbon disulfide	<0.100	ND	trans-1,3-Dichloro-1-Propene	<0.100	ND
Allyl chloride	<0.100	ND	1,1,2-Trichloroethane	<0.100	ND
Dichloromethane	<0.100	ND	Propane, 1,3-dichloro-	<0.100	ND
Methylene chloride	<0.100	ND	Chlorodibromomethane	<0.100	ND
Propionitrile	<0.100	ND	Ethyl methacrylate	<0.100	ND
cis-1,2-Dichloroethene	<0.100	ND	1,2-Dibromoethane	<0.100	ND
Acetonitrile	<0.100	ND	Chlorobenzene	<0.100	ND
2-Chloro-1,3-butadiene	<0.100	ND	Ethylbenzene	<0.100	ND
Acrylonitrile	<0.100	ND	1,1,1,2-Tetrachloroethane	<0.100	ND
trans-1,2-Dichloroethene	<0.100	ND	M/P Xylene	<0.100	ND
Propane, 2,2-dichloro-	<0.100	ND	o-Xylene	<0.100	ND
Tetrahydrofuran	<0.100	ND	Styrene	<0.100	ND
1,1,1-Trichloroethane	<0.100	ND	Isopropylbenzene	<0.100	ND
Methyl acrylate	<0.100	ND	trans-1,4-Dichloro-2-butene	<0.100	ND
Bromochloromethane	<0.100	ND	1,2,3-Trichloropropane	<0.100	ND
Chloroform	<0.100	ND	cis-1,4-Dichloro-2-butene	<0.100	ND
Carbon Tetrachloride	<0.100	ND	2-Chlorotoluene	<0.100	ND
1,1-Dichloropropene	<0.100	ND	Bromobenzene	<0.100	ND
Benzene	<0.100	ND	n-Propylbenzene	<0.100	ND
Methylacrylonitrile	<0.100	ND	1,1,2,2-Tetrachlorethane	<0.100	ND
1,2-dichloro-ethane	<0.100	ND	4-Chlorotoluene	<0.100	ND
Trichloroethene	<0.100	ND	1,2,4-Trimethylbenzene	<0.100	ND
Propane, 1,2-dichloro-	<0.100	ND	tert-Butylbenzene	<0.100	ND
Methyl methacrylate	<0.100	ND	1,3,5-Trimethylbenzene	<0.100	ND
Bromoform	<0.100	ND	sec-Butylbenzene	<0.100	ND
Bromodichloromethane	<0.100	ND	1,3-Dichlorobenzene	<0.100	ND

cont.

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Date: 22Aug25 3:17p
Source: FWS
Type of Sample: water
No. of Samples: 1

No.: W189301 pg5

Arrival temp.: 4.4C
Sampler: Cowichan Bay Waterworks

Sample: 4361 Telegraph Rd. - 21Aug25 3:30p

VOLATILE ORGANIC COMPOUNDS

	Sample 1	Lab Blank
Compounds	(ug/L)	(ug/L)
4-Isopropyltoluene	<0.100	ND
1,4-dichloro-benzene	<0.100	ND
n-Butylbenzene	<0.100	ND
1,2-dichloro-benzene	<0.100	ND
1,2-Dibromo-3-chloropropane	<0.100	ND
Nitrobenzene	<0.100	ND
1,3-Hexachlorobutadiene	<0.100	ND
1,2,3-Trichlorobenzene	<0.100	ND
1,2,4-Trichlorobenzene	<0.100	ND
Naphthalene	<0.100	ND

Surrogate Recovery (%)	
Dibromofluoromethane	107
Toluene-D8	101
1-Bromo-3-fluorobenzene	98.3

ug/L = ppb = micrograms per litre

R. Bilodeau
Analytical Chemist



H. Hartmann
Sr. Analytical Chemist

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22Aug25 3:17p W189301
Source: FWS
Type of Sample: Water
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Arrival temp.: 4.4C
Sampler: Cowichan Bay Waterworks

TEL: (250) 748-4041
email: info@bcaquifer.ca

<u>Site Code</u>	<u>Date</u>	<u>Time</u>	<u>CFU/100 ml</u> <u>TC</u>	<u>CFU/100 ml</u> <u>T-NC</u>	<u>CFU/100 ml</u> <u>FC</u>	<u>CFU/100 ml</u> <u>F-NC</u>	<u>CFU/100 ml</u> <u>E.coli</u>
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