

DRINKING WATER SYSTEM ANNUAL REPORT	<u> </u>							
<b>Reporting Period:</b> January 1 <sup>st</sup> to December 31 <sup>st</sup> , 2024 (year)								
Water System Cowichan River - Stoltz Pool Campground								
Water System Owner BC Parks								
Primary Contact Name (Operator or Mana	ger) Fred King							
Phone Number (Operator or Manager) 25	50 539-0161							
E-mail (Operator or Manager) k2parks@s	haw.ca							
DESCRIBE YOUR WATER SUPPLY SYSTEM								
What is the Source(s) of Raw Water?								
■ Deep Well Shallow We	II Surface Water	Other						
If other, specify details:								
Does the Drinking Water System have	e Primary Disinfection?	☐Yes	■No					
Chlorination Ultraviolet L	ight Ozone	Other						
If other, specify details:								
Does the Drinking Water System have	e Secondary Disinfection?	Yes	■No					
Chlorination Other								
If other, specify details:								
Does the Drinking Water System have	e Filtration?	Yes	■No					
Check all boxes that apply	□a							
Cartridge Filter(s) Carbon Filte	Sand Filtration	Reverse Osmosis	Other					
If other, specify details:								
D								
PUBLIC REPORTING	-1 (-2-2-)							
Emergency Response & Contingency								
Is your ERCP up to Date?	Yes TROP3	∐No						
How do you Inform the System Users		[] [Hilitory Dill Images	□Wohoi+o					
Hand Delivered Bulletin Boa	rd	Utility Bill Insert	Website					
Other (specify details)  Cont  Drinking Water System Annual Repor								
How do you Inform the System Users								
Hand Delivered Bulletin Boa	_	Utility Bill Insert	Website					
	I.A. web site		website					



OMPLIANCE WITH OPERATING PE	RMIT		
st the conditions of your Ope	erating Permit (Contact the DWO for a copy	if needed):	
OCP credits current			
Are you in compliance with yo	our Operating Permit?	es	∐No
BACTERIOLOGICAL TESTING AND D	RINKING WATER PROTECTION REGULATION WATER	P OLIALITY STAND	APDS
	mples were collected during this reporting p		14
	d sampling frequency for this system? (#sai		2/month
Additional sampling details:			2/11/01/11/1
Was the minimum required so	ampling frequency achieved?	es	No
Comments:	_		_
Bacteriological summary atta	ched to this report?	es	No
If no, how do the users of the	system view the results?		
/.I.H.A. website			
V.I.H.A. website			
V.I.H.A. website Water Quality Standards for	POTABLE WATER		
	POTABLE WATER  Standard:	Did this syst	em meet standard?
WATER QUALITY STANDARDS FOR Parameter: Escherichia coli (for all samples)		Did this syst  ■Yes	em meet standard?
WATER QUALITY STANDARDS FOR  Parameter: Escherichia coli (for all samples) Total Coliform Bacteria (if only 1 sample collected in a 30	Standard:		
WATER QUALITY STANDARDS FOR  Parameter:  Escherichia coli (for all samples)  Total Coliform Bacteria (if only 1 sample collected in a 30 day period)  Total Coliform Bacteria	Standard:  No detectable Escherichia coli per 100ml  No detectable total coliform bacteria per 100ml  No more than 10% of samples contain total	■Yes	□No
WATER QUALITY STANDARDS FOR  Parameter:  Escherichia coli (for all samples)  Total Coliform Bacteria (if only 1 sample collected in a 30 day period)  Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	Standard:  No detectable Escherichia coli per 100ml  No detectable total coliform bacteria per 100ml  No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	■Yes  Yes  XYes	□No □No
WATER QUALITY STANDARDS FOR  Parameter:  Escherichia coli (for all samples)  Total Coliform Bacteria (if only 1 sample collected in a 30 day period)  Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	Standard:  No detectable Escherichia coli per 100ml  No detectable total coliform bacteria per 100ml  No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml  y of above Drinking Water Protection Regulation	■Yes  Yes  XYes	□No □No
WATER QUALITY STANDARDS FOR  Parameter:  Escherichia coli (for all samples)  Total Coliform Bacteria (if only 1 sample collected in a 30 day period)  Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)  If the system did not meet any	Standard:  No detectable Escherichia coli per 100ml  No detectable total coliform bacteria per 100ml  No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml  y of above Drinking Water Protection Regulation	Yes  Yes  XYes	□No □No



CHEMICAL SAMP	LING COMPLETED D	URING THIS REPORTIN	IG PERIOD						
Was any chem	ical sampling co	nducted during re	porting period?	X Yes					
If no, when were the last chemical samples conducted for this system? (date)									
If yes, attach a	list of the chem	ical results - see a	ttachment						
	•	neet the Guideline onal sheets if nece	s for Canadian Drinking Wa ssary.	ter Quality, reco	rd the results in				
Next scheduled full chemical test (date) 2029									
Parameter	Parameter Result Corrective Action / Treatment / Comments								
Additional Tes	TING								
Does the syste	m have analyzei	rs for continuous n	nonitoring?		No				
If yes, check al	l boxes that app	ly:							
Chlorine	Turb	idity	Other (details)						
Are the results	available on re	quest?							
If any addition sheets if neces	_	npling was conduc	ted, record results in the ta	ble below; attacl	h additional				
Additional Tes	ting & Reason fo	or Sampling Co	orrective Action Taken						
WATER QUALITY	COMPLAINTS								
	y water quality ( aste, odour, colo	complaints in this our etc.)	reporting Yes		No				
If yes, complet	e the table belo	w; attach addition	al sheets if necessary.						
Date	Water Quality	Complaint	Corrective Action / Treat	ment					



OPERATIONAL PROBLEMS									
Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of Yes disinfection equipment, line breaks, elevated turbidity etc.).									
If yes, complete the table below; at	tach additional she	eets if necessary.							
Incident Date Type of Operational Problem Corrective Action Taken									
MAJOR UPGRADES/REPAIRS & EXPENSES									
Were there any major upgrades/re incurred during this reporting perio	•	costs Ye	es No						
If yes, complete the table below; at	tach additional she	eets if necessary.							
Major Upgrades/Expenses	Details								
Improvements required by DWO									
Additions/changes to system									
Purchase or install new equipment									
Equipment repair or replacement									
Annual maintenance of system	Well shocked a	t Spring start up	of Operating Season.						
Specialist report									
Other									
FUTURE IMPROVEMENTS									
Are there any plans for future impro	ovements?	<b>■</b> Ye	es No						
If yes, complete the table below; at	tach additional she	eets if necessary.							
Future Upgrades or Improvements			Estimated Date of Completion						
Drill wells deeper to avoid	d turbidity levels -	BC Parks	TBA						
November 15, 2024	November 15, 2024 Debbie King								
DATE COMPLETED:		COMPLETED BY:							

K2 Park Services Ltd. (BC Parks)

\*B Fred or Debbie King

Site 3, Comp 9 Galiano Island, BC

V0N 1P0

TEL: (877) 559-2115

k2parks@shaw.ca

05Apr24 4:18p

Source: FWS

Type of Sample: Water

W179846

No. of Samples: 1

Arrival temp.: 14.3C Pd B1165 05040

Sample: Stoltz Pool

		CFU/100 1	ml	CFU/10	0 ml	CFU/100 mL
Site Code	<u>Date</u> <u>Time</u>	TC	T-NC	FC	F-NC	E.coli
1 Covey Ground	05Apr24 10:00	0	4	0	0	0

## WATER DISTRICT SCREEN

Sample	Date	<u>Time</u>	Lactose Fermentors	Colife Total	orms <u>Fecal</u>	E.coli	Total <u>Aeromonas</u>
1 Covey Ground	05Apr24	10:00	0.04	ND	ND	ND	ND
<u>Sample</u>	<u>Date</u>	<u>Time</u>	Sulfur Reduc Iron Bacter:		Yeast/Fu	ngi	TPC *
1 Covey Ground	05Apr24	10:00	ND / ND		ND / N	D	1.84

<sup>\*</sup> All counts are colony forming units per milli-litre

TC = total coliform bacteria FC = fecal coliform bacteria (aka Thermotolerant Coliforms)
NC = non-coliform bacteria ND = none detected
TPC = total plate count- spread plate method - 35C/48hr TGEA FDA/BAM 9th ed, Oct 2020
CFU = colony forming units

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 Bergy's Manual of Systematic Bacteriology vol 1, AOAC 1984; J.Clin.Micro., J.Intern.Systm.Bact.
- See following page for chemistry results -

W. Riggs Sr. Microbiologist

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EMAILE F APR 0-9 2024

W179846 pg2

K2 Park Services Ltd. (BC Parks) \*B Fred or Debbie King Site 3, Comp 9

Galiano Island, BC

V0N 1P0

TEL: (877) 559-2115 k2parks@shaw.ca

Source: FWS Type of Sample: Water No. of Samples: 1

4:18p

05Apr24

Arrival temp.: 14.3C Pd B1165 05040

Sample: Stoltz Pool - Covey Ground 05Apr24 10:00

ELEMENTS         SAMPLE         UNITS         In Drinking Water*           1) Aluminium         Al         0.221         mg/L         no limit listed           2) Antimony         Sb         <0.500         ug/L         6.00 ug/L           3) Arsenic         As         2.45         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         0.812         mg/L         5.00 mg/L           7) Cadmium         Cd         <0.010         ug/L         7.00 ug/L						Maximum Limits
2) Antimony Sb <0.500 ug/L 6.00 ug/L 3) Arsenic As 2.45 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 0.812 mg/L 5.00 mg/L		ELEMENTS		SAMPLE	UNITS	In Drinking Water*
3) Arsenic As 2.45 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 0.812 mg/L 5.00 mg/L	1)	Aluminium	Al	0.221	mg/L	no limit listed
4) Barium Ba <0.009 mg/L 2.00 mg/L 5) Beryllium Be <0.003 mg/L no limit listed 6) Boron B 0.812 mg/L 5.00 mg/L	2)	Antimony	Sb	<0.500	ug/L	6.00 ug/L
5) Beryllium Be <0.003 mg/L no limit listed 6) Boron B 0.812 mg/L 5.00 mg/L	3)	Arsenic	As	2.45	ug/L	10.0 ug/L
6) Boron B 0.812 mg/L 5.00 mg/L	4)	Barium	Ва	<0.009	mg/L	2.00 mg/L
·,	5)	Beryllium	Ве	<0.003	mg/L	no limit listed
7) Cadmium Cd <0.010 ug/L 7.00 ug/L	6)	Boron	В	0.812	mg/L	5.00 mg/L
	7)	Cadmium	Cđ	<0.010	ug/L	7.00 ug/L
8) Calcium Ca 15.0 mg/L 200 mg/L	8)	Calcium	Ca	15.0	mg/L	200 mg/L
9) Chromium Cr <0.003 mg/L 0.050 mg/L	9)	Chromium	Cr	<0.003	mg/L	0.050 mg/L
10) Cobalt Co <0.005 mg/L no limit listed	10)	Cobalt	Co	<0.005	mg/L	no limit listed
11) Copper Cu 0.012 mg/L 1.00 mg/L	11)	Copper	Cu	0.012	mg/L	1.00 mg/L
12) Gold Au <0.040 mg/L no limit listed	12)	Gold	Au	<0.040	mg/L	no limit listed
13) Iron Fe 1.92 mg/L 0.300 mg/L	13)	Iron	Fe	1.92	mg/L	0.300 mg/L
14) Lanthanum La <0.020 mg/L no limit listed	14)	Lanthanum	La	<0.020	mg/L	no limit listed
15) Lead Pb 0.761 ug/L 5.00 ug/L	15)	Lead	Pb	0.761	ug/L	5.00 ug/L
16) Magnesium Mg 2.42 mg/L 50.0 mg/L	16)	Magnesium	Mg	2.42	mg/L	50.0 mg/L
17) Manganese Mn 0.215 mg/L 0.120 MAC 0.020 AO	17)	Manganese	Mn	0.215	mg/L	0.120 MAC 0.020 AO
18) Mercury Hg <0.010 ug/L 1.00 ug/L	18)	Mercury	Hg	<0.010	ug/L	1.00 ug/L
19) Molybdenum Mo <0.005 mg/L no limit listed	19)	Molybdenum	Mo	<0.005	mg/L	no limit listed
20) Nickel Ni <0.004 mg/L no limit listed	20)	Nickel	Ni	<0.004	mg/L	no limit listed
21) Phosphorus P 0.419 mg/L no limit listed	21)	Phosphorus	P	0.419	mg/L	no limit listed
22) Potassium K 0.560 mg/L no limit listed	22)	Potassium	K	0.560	mg/L	no limit listed
23) Scandium Sc <0.050 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	24)	Selenium	Se	<0.500	ug/L	5.0 ug/L
25) Silicon Si 7.76 mg/L no limit listed	25)	Silicon	Si	7.76	mg/L	no limit listed
26) Silver Ag <0.010 mg/L no limit listed	26)	Silver	Ag	<0.010	mg/L	no limit listed
27) Sodium Na 6.65 mg/L 200 mg/L	27)	Sodium	Na	6.65	mg/L	200 mg/L
28) Strontium Sr 0.060 mg/L no limit listed	28)	Strontium	Sr	0.060	mg/L	no limit listed
29) Tin Sn <0.020 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	30)	Titanium	Ti	<0.010	mg/L	no limit listed
31) Tungsten W <0.050 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	32)	Vanadium	V	<0.010	mg/L	no limit listed
33) Zinc Zn 0.009 mg/L 5.00 mg/L	33)	Zinc	Zn	0.009	mg/L	5.00 mg/L
Hardness (mg/L CaCO <sub>3</sub> ) 47.4 mg/L $0-75$ mg/L = soft	Har	dness (mg/L Ca	CO <sub>3</sub> )	47.4	mg/L	0-75  mg/L = soft
pH 7.77 units 7.0 to 10.5	рH			7.77	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.

R. Bilodeau

Analytical Chemist

H. Hartmann

Sr.Analytical Chemist

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05Apr24 4:18p

Source: FWS

Type of Sample: Water

W179846 pg3

No. of Samples: 1

Arrival temp.: 14.3C Pd B1165 05040

Sample: Stoltz Pool

SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH <sub>3</sub> -N (ug/L)	Cl <sup>-</sup> (mg/L)	Colour (TCU)	E.C. (uS/cm)
Covey Ground Lab Blank	05Apr24	10:00	75.0 ND	282 ND	ND ND	5.34 ND	125 ND
So			0.100	0.254	0.015	0.300	0.300
REF. VALUE STD ± 2SD			100 96.1 ± 5.65	10.0 9.69 ± 0.578	10.0 9.88 ± 0.659	5.00 4.87 ± 3.78	147 142 ± 12.2
SAMPLE	DATE	TIME	CORROSIVITY (Is @20)	F <sup>-</sup> (mg/L)	S <sup>2-</sup> (uS/cm)	TKN (mg/L)	NO <sub>3</sub> -N (ug/L)
Covey Ground Lab Blank	05Apr24	10:00	-0.566	0.311 ND	ND ND	0.282 ND	3.40 ND
So				0.007	0.007	0.012	0.160
REF. VALUE STD ± 2SD				1.00 0.966 ± 0.078	50.0 48.2 ± 0.412	1.00 0.981 ± 0.05	10.0 9 10.7 ± 0.599
SAMPLE	DATE	TIME	NO <sub>2</sub> -N (ug/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)	T.O.C. (mg/L)	T&L (mg/L)	TDS (mg/L)
Covey Ground Lab Blank	05Apr24	10:00	2.60 ND	15.9 ND	8.57 ND	0.012 ND	72.3 ND
So			0.300	0.075	0.300	0.070	0.010
REF. VALUE STD ± 2SD			10.0 9.55 ± 5.88	10.0 9.88 ± 0.640	10.0 9.81 ± 0.750	1.00 1.07 ± 0.056	200 192 ± 14.0
SAMPLE	DATE	TIME	Turbidity (NTU)	UVT (%)			
Covey Ground Lab Blank	05Apr24	10:00	15.4 ND	89.8 ND			
So			0.015	0.003			
REF. VALUE STD ± 2SD			0.500 0.540 ± 0.044	90.0 90.1 ± 0.02			

SD = standard deviation; REF VALUE = primary or secondary reference material

STD = secondary standard calibrated to primary standard reference material

 $S_o$  = 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

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