

DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 st to Decem	iber 31 st , (year)	
Water System			
Water System Owner			
Primary Contact Name (Operator or Manager)			
Phone Number (Operator or Manager)			
E-mail (Operator or Manager)			
DESCRIBE YOUR WATER SUPPLY SYSTEM			
What is the Source(s) of Raw Water?			
Deep Well Shallow Well	Surface Water	Other	
If other, specify details:			
Does the Drinking Water System have Primo	ary Disinfection?	Yes	□No
Chlorination Ultraviolet Light	Ozone	Other	
If other, specify details:			
Does the Drinking Water System have Secon	ndary Disinfection?	Yes	□No
Chlorination Other			
If other, specify details:			
Does the Drinking Water System have Filtra	tion?	Yes	□No
Check all boxes that apply	_	_	
Cartridge Filter(s) Carbon Filter	Sand Filtration	Reverse Osmosis	Other
If other, specify details:			
PUBLIC REPORTING			
Emergency Response & Contingency Plan (E			
Is your ERCP up to Date?	∐Yes -	∐No	
How do you Inform the System Users of the			
Hand Delivered Bulletin Board	☐ Newspaper	Utility Bill Insert	Website
Other (specify details) CVRD Engineerin	ig Services, 175 Ingra	m Street, Duncan, BC	
Drinking Water System Annual Report			
How do you Inform the System Users of the	_		
Hand Delivered Bulletin Board	Newspaper	Utility Bill Insert	Website
Other (specify details)			



	MIT			
ist the conditions of your Ope	rating Permit (Contact the DW	O for a copy	if needed):	
Are you in compliance with yo	ur Operating Permit?	Ye	S	No
BACTERIOLOGICAL TESTING AND DR	INKING WATER PROTECTION REGUI	ATION WATER	Quality Stan	DARDS
How many bacteriological san	nples were collected during thi	s reporting p	eriod?	
What is the minimum required	I sampling frequency for this sy	/stem? (#sam	nples/month)	
Additional campling details:				
Additional Sampling details.			c	No
<u> </u>	mpling frequency achieved?	☐Ye:	3	
Was the minimum required sa	mpling frequency achieved?	☐Ye:	5	_
Was the minimum required sa Comments: Bacteriological summary attac	ched to this report?	Ye.		□No
Was the minimum required sa Comments: Bacteriological summary attac If no, how do the users of the s	thed to this report? System view the results?			□No
Was the minimum required sa Comments: Bacteriological summary attac If no, how do the users of the s WATER QUALITY STANDARDS FOR F	thed to this report? System view the results?		S	□No stem meet standard?
Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples)	ched to this report? System view the results? POTABLE WATER	Ye	S	
Additional sampling details: Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples) Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	ched to this report? System view the results? POTABLE WATER Standard:	Ye.	S Did this sys	stem meet standard?
Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F 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	Ched to this report? System view the results? POTABLE WATER Standard: No detectable Escherichia coli per 1 No detectable total coliform bacteri No more than 10% of samples contacoliform bacteria, and No sample ha	O0ml a per 100ml ain total as more than	Did this sys	stem meet standard?
Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F 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	Ched to this report? System view the results? POTABLE WATER Standard: No detectable Escherichia coli per 1 No detectable total coliform bacteri No more than 10% of samples contacoliform bacteria, and No sample had 10 total coliform bacteria per 100m Tof above Drinking Water Protes	O0ml a per 100ml ain total as more than	Did this sys	stem meet standard? No No
Was the minimum required san Comments: Bacteriological summary attack If no, how do the users of the san WATER QUALITY STANDARDS FOR F 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)	Ched to this report? System view the results? POTABLE WATER Standard: No detectable Escherichia coli per 1 No detectable total coliform bacteri No more than 10% of samples contacoliform bacteria, and No sample had 10 total coliform bacteria per 100m Tof above Drinking Water Protes	O0ml a per 100ml ain total as more than	Did this sys	stem meet standard? No No



Was any chen			ORTING PERIOD		
	nical sampling co	nducted durii	ng reporting period	??'	res No
If no, when w	ere the last chem	ical samples	conducted for this s	system? (date)	☐Don't kno
If yes, attach	a list of the chem	ical results			<u> </u>
-	amples did not m w; attach additio		•	Drinking Water Qu	ality, record the results in
Next schedule	ed full chemical te	e st (date)			
Parameter	Result O	Corrective A	action / Treatment	/ Comments	
Additional Tes	STING				
Does the syste	em have analyzer	s for continue	ous monitoring?	Yes	□No
If yes, check a	ıll boxes that app	ly:			
Chlorine	Turbi	dity	Other (details)		
Are the result	s available on red	quest?			
If any addition	_	npling was co	nducted, record res	sults in the table be	low; attach additional
Additional Te	sting & Reason fo	r Sampling	Corrective Actio	n Taken	
Additional Te	sting & Reason fo	r Sampling	Corrective Actio	n Taken	
Additional Te	sting & Reason fo	r Sampling	Corrective Actio	n Taken	
Additional Te	sting & Reason fo	r Sampling	Corrective Actio	n Taken	
Additional Te	sting & Reason fo	r Sampling	Corrective Actio	n Taken	
Additional Te		r Sampling	Corrective Actio	n Taken	
WATER QUALIT		complaints in		n Taken	□No
WATER QUALIT Were there an period? (e.g. 1	y COMPLAINTS ny water quality o taste, odour, colo	complaints in ur etc.)		□Yes	□No
WATER QUALIT Were there an period? (e.g. 1	y COMPLAINTS ny water quality o taste, odour, colo	complaints in ur etc.) w; attach add	this reporting	□Yes	No
WATER QUALIT Were there an period? (e.g. t	y Complaints ny water quality of taste, odour, colourte the table below	complaints in ur etc.) w; attach add	this reporting	□Yes	□No
Water Qualit Were there an period? (e.g. t	y Complaints ny water quality of taste, odour, colourte the table below	complaints in ur etc.) w; attach add	this reporting	□Yes	□No



OPERATIONAL PROBLEMS							
Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.).							
If yes, complete the table below; attach additional sheets if necessary.							
Incident Date	Type of Operational	Problem	Correc	ctive Actio	n Taker	n	
Major Upgrade	ES/REPAIRS & EXPENSES						
	y major upgrades/rep g this reporting period	-	ajor cos	sts	∐Yes	s _No	
If yes, complete	e the table below; att	ach addition	al sheet:	s if necess	ary.		
Major Upgrade	es/Expenses	Details					
Improvements	required by DWO						
Additions/chan	iges to system						
Purchase or ins	tall new equipment						
Equipment rep	air or replacement						
Annual mainter	nance of system						
Specialist repor	rt						
Other							
FUTURE IMPROVE	EMENTS					<u> </u>	
Are there any p	olans for future impro	vements?			Yes	S No	
If yes, complete	e the table below; att	ach addition	al sheet:	s if necess	ary.		
Future Upgrad	es or Improvements					Estimated Date of Completion	
			1				
Click here to				COMPLETEI	n Rv•		
JAIL CONTIFLETER				CO.VII EL IEI	11		

Future upgrades or improvements	Estimated date of Completion
Manganese treatment pilot program	2019
Install Manganese Treatment system	2020/2021
Redevelop Well #1	2020/2021
Groundwater monitoring (data collection) all wells	2019



KERRY VILLAGE WATER SYSTEM

Facility Location:

Bourban Road Mill Bay

Facility Information:

Facility Type: 15-300 DWC

Facility Sampling History:

Location	Date	Total Coliform	E.Coli
S-2 Water Treatment Building, 1045 Bourban Road	18-Dec-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	11-Dec-2018	L1	L1
S-1 Water Treatment Building - Raw Water, RAW WATER Kerry Village	4-Dec-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	4-Dec-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	26-Nov-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	20-Nov-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	13-Nov-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	5-Nov-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	29-Oct-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	22-Oct-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	16-Oct-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	10-Oct-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	2-Oct-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	25-Sep-2018	L1	L1



S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	18-Sep-2018	L1	L1
S-1 Water Treatment Building - Raw Water, RAW WATER Kerry	11-Sep-2018	17.9	L1
Village	•		
S-2 Water Treatment Building, 1045 Bourban Road	11-Sep-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	5-Sep-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	28-Aug-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	21-Aug-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	14-Aug-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	8-Aug-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	31-Jul-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	23-Jul-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	16-Jul-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	9-Jul-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	3-Jul-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	27-Jun-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	18-Jun-2018	L1	L1
S-1 Water Treatment Building - Raw Water, RAW WATER Kerry Village	12-Jun-2018	81.6	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	12-Jun-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	4-Jun-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	28-May-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	23-May-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	14-May-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	7-May-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	30-Apr-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	24-Apr-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	16-Apr-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	10-Apr-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	3-Apr-2018	L1	L1
S-1 Water Treatment Building - Raw Water, RAW WATER Kerry Village	27-Mar-2018	L1	L1



S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	27-Mar-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	19-Mar-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	13-Mar-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	5-Mar-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	26-Feb-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	19-Feb-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	13-Feb-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	5-Feb-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	30-Jan-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	22-Jan-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	16-Jan-2018	L1	L1
S-3 1070 Briarwood Kerry Village, S-3 1070 Briarwood, Kerry Village	8-Jan-2018	L1	L1
S-2 Water Treatment Building, 1045 Bourban Road	2-Jan-2018	L1	L1

Laboratory Report

ALS Environmental

Report For: Cowichan Valley Regional District

Received: 07/09/2018 13:10

Report ID: L2110366

Report Name: ALS Final Results Report

Sample ID: L2110366-1

Water System: Kerry Village Water (KVW)

Facility: Distribution

Sampling Pt: S3-1070 Briarwood Dr (2-2-MD, 27ADC)

Comment: S3-1070 BRIARWOOD DR

Sampled: 06/11/2018

INORGANIC			Criteria & Ty	pe	Status
Aluminum (total)	< 0.010	mg/L	<=0.1	Operational - Conventional	Final
Ammonia (total, as N)	< 0.0050	mg/L			Final
Antimony (total)	< 0.00050	mg/L	<=0.006	MAC	Final
Arsenic (total)	0.00249	mg/L	<=0.01	MAC	Final
Barium (total)	0.032	mg/L	<=1	MAC	Final
Beryllium (total)	< 0.0050	mg/L			Final
Bismuth (total)	< 0.20	mg/L			Final
Boron (total)	< 0.10	mg/L	<=5	MAC	Final
Bromide	< 0.050	mg/L			Final
Cadmium (total)	< 0.00020	mg/L	<=0.005	MAC	Final
Calcium (total)	35.3	mg/L			Final
Chloride	13.7	mg/L	<=250	AO	Final
Chromium (total)	< 0.0020	mg/L	<=0.05	MAC	Final
Cobalt (total)	< 0.010	mg/L			Final
Copper (total)	0.0047	mg/L	<=1	AO	Final
Fluoride	0.078	mg/L	<=1.5	MAC	Final
Iron (total)	< 0.030	mg/L	<=0.3	AO	Final
Lead (total)	< 0.00050	mg/L	<=0.005	MAC	Final
Lithium (total)	< 0.010	mg/L			Final
Magnesium (total)	8.03	mg/L			Final
Manganese (total)	0.0709	mg/L	<=0.12	MAC	Final
Mercury (total)	< 0.00020	mg/L	<=0.001	MAC	Final
Molybdenum (total)	< 0.030	mg/L			Final
Nickel (total)	< 0.050	mg/L			Final
Nitrate (as N)	< 0.0050	mg/L	<=10	MAC	Final
Nitrate + Nitrite (as N)	< 0.0051	mg/L	<=10	User-Defined	Final
Nitrite (as N)	< 0.0010	mg/L	<=1	MAC	Final
Phosphorus (total)	0.87	mg/L			Final
Potassium (total)	0.55	mg/L			Final
Selenium (total)	< 0.0010	mg/L	<=0.05	MAC	Final
Silicon (total, as Si)	8.83	mg/L			Final
Silver (total)	< 0.010	mg/L			Final
Sodium (total)	16.7	mg/L	<=200	AO	Final



Report Name: ALS Final Results Report

Sample ID: L2110366-1 (continued)

Water System: Kerry Village Water (KVW)

Facility: Distribution

Sampling Pt: S3-1070 Briarwood Dr (2-2-MD, 27ADC)

Comment: S3-1070 BRIARWOOD DR

Sampled: 06/11/2018

INORGANIC			Criteria & Ty	pe	Status
Strontium (total)	0.310	mg/L			Final
Sulphate	11.4	mg/L	<=500	AO	Final
Sulphide (total, as S)	< 0.018	mg/L			Final
Thallium (total)	< 0.20	mg/L			Final
Tin (total)	< 0.030	mg/L			Final
Titanium (total)	< 0.010	mg/L			Final
Vanadium (total)	< 0.030	mg/L			Final
Zinc (total)	< 0.0050	mg/L	<=5	AO	Final
MICROORGANISMS			Criteria & Ty	ре	Status
Background Bacteria	< 1	CFU/100ml	<=200,OG	User-Defined	Final
Escherichia coli / E. coli (counts)	< 1	CFU/100ml	<=0,P	Microbiological Standard	Final
Fecal (thermal tolerant) Coliforms (counts)	< 1	CFU/100ml	<=0,OG	Microbiological Standard	Final
Heterotrophic Plate Count / HPC	< 1	CFU/mI	<=5	User-Defined	Final
Iron Bacteria (MPN / PA)	SC				Final
Sulfate Reducing Bacteria	SC				Final
Total Coliforms (counts)	< 1	CFU/100ml	<=0,OG	User-Defined	Final
ORGANIC			Criteria & Ty	pe	Status
Tannins and Lignins	< 0.10	mg/L			Final
Total Kjeldahl Nitrogen / TKN	< 0.050	mg/L			Final
Total Organic Carbon / TOC	1.09	mg/L			Final
PHYSICAL			Criteria & Ty	ре	Status
Alkalinity (total, as CaCO3)	160	mg/L			Final
Colour	< 5.0	CU	<=15	AO	Final
Conductivity	299	uS/cm			Final
Hardness (total, as CaCO3)	121	mg/L			Final
Langelier Index	0.65				Final
Langelier Index (@ 20 C)	16.2				Final
рН	6.8			Current Level	Final
рН	8.34			Current Level	Final
Total Dissolved Solids / TDS	185	mg/L	<=500	AO	Final
Turbidity	1.0	NTU	<=5	User-Defined	Final

Laboratory Report

ALS Environmental

Report Name: ALS Final Results Report

Sample ID: L2110366-1 (continued)

Water System: Kerry Village Water (KVW)

Facility: Distribution

Sampling Pt: S3-1070 Briarwood Dr (2-2-MD, 27ADC)

Comment: S3-1070 BRIARWOOD DR

Sampled: 06/11/2018

RADIONUCLIDES Criteria & Type Status

Uranium (total) 0.00118 mg/L <=0.02 MAC Final

Result Legend

P=present, A=absent, PR=presumptive, ND=non-detect, OR=over-range, OG=overgrown, Y=yes, N=no, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

< means less than lower detection limit shown

> means greater than upper detection limit shown

« means detected & less than number shown

» means detected & greater than number shown

* Indicates Criteria is exceeded

Approved on:

06/18/2019 mm/dd/yyyy

Approved by: Rod Lama

