

DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 <sup>st</sup> to Decem	nber 31 <sup>st</sup> , (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 Prime	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	ition?	Yes	□No
Check all boxes that apply			
Cartridge Filter(s) Carbon Filter	Sand Filtration	Reverse Osmosis	Other
If other, specify details:			
Public Proprinc			
PUBLIC REPORTING	(ncn)		
Emergency Response & Contingency Plan (E		□No.	
Is your ERCP up to Date?  How do you Inform the System Users of the	Yes	∐No	
Hand Delivered Bulletin Board	Newspaper	Utility Bill Insert	Website
Other (specify details) Radio, Social Me			
Drinking Water System Annual Report	:uid		
How do you Inform the System Users of the	Annual Report?		
Hand Delivered Bulletin Board	Newspaper	Utility Bill Insert	Website
Other (specify details)			



WATER QUALITY STANDARDS FOR POTABLE WATER  Parameter: Standard: Did this system meet standard?  Escherichia coli (for all samples) No detectable Escherichia coli per 100ml Yes No  Total Coliform Bacteria (if only 1 sample collected in a 30 No detectable total coliform bacteria per 100ml Yes No  day period)  Total Coliform Bacteria No more than 10% of samples contain total	Are you in compliance with your Operating Permit?	Are you in compliance with your Operating Permit?	Are you in compliance with your  BACTERIOLOGICAL TESTING AND DRIN  How many bacteriological samp  What is the minimum required s  Additional sampling details:	r Operating Permit?  NKING WATER PROTECTION REGULATION WATER Poles were collected during this reporting p	es R QUALITY STANI	
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Was the minimum required sampling frequency achieved?  Comments:  Bacteriological summary attached to this report?  If no, how do the users of the system view the results?  WATER QUALITY STANDARDS FOR POTABLE WATER  Parameter:  Standard:  Escherichia coli (for all samples)  Total Coliform Bacteria (if only 1 sample collected in a 30 day period)  Total Coliform Bacteria  No more than 10% of samples contain total	Was the minimum required sampling frequency achieved?	Was the minimum required sampling frequency achieved?			nples/month)	
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	If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in	If the system did not meet any of above Drinking Water Protection Regulation standards, record the results i the table below; attach additional sheets if necessary.	(if more than 1 sample collected in a	coliform bacteria, and No sample has more than	Yes	□No
	the table below: attach additional cheets if necessary		If the system did not meet any o	of above Drinking Water Protection Regul	lation standar	ds, record the results i
and the second s		Date TC/100ml E.coli/100ml Reason Corrective Action		• •		
the table below; attach additional sheets if necessary.	Date TC/100ml E.coli/100ml Reason Corrective Action		Date TC/100ml	E.coli/100ml Reason	Corre	ctive Action



CHEMICAL SAMP	LING COMPLETED D	URING THIS REPO	RTING PERIOD					
Was any chem	ical sampling co	nducted during	g reporting period	?	Yes	□No		
If no, when we	ere the last chem	nical samples co	onducted for this s	ystem? (date)		Don't know		
If yes, attach a	list of the chem	ical results						
	ımples did not n v; attach additio		ines for Canadian ecessary.	Drinking Water (	Quality, record	d the results in		
Next scheduled	d full chemical to	e <b>st</b> (date)						
Parameter	Result	Corrective Ac	tion / Treatment ,	/ Comments				
Additional Tes	TING							
Does the system have analyzers for continuous monitoring?								
If yes, check all boxes that apply:								
Chlorine	Turb	idity	Other (details)					
Are the results available on request?								
If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.								
Additional Testing & Reason for Sampling Corrective Action Taken								
WATER QUALITY COMPLAINTS								
Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.)								
If yes, complete the table below; attach additional sheets if necessary.								
Date	Water Quality	Complaint	Corrective A	ction / Treatmen	it			



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; at	tach additional s	sheets if nece	ssary.					
Incident Date Type of Operationa	l Problem (	Corrective Ac	tion Taken					
MAJOR UPGRADES/REPAIRS & EXPENSES								
Were there any major upgrades/repincurred during this reporting period		or costs	☐Yes	□No				
If yes, complete the table below; attach additional sheets 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								
Specialist report								
Other								
FUTURE IMPROVEMENTS								
Are there any plans for future improvements?								
If yes, complete the table below; attach additional sheets if necessary.								
Future Upgrades or Improvements			Estima	ted Date of Completion				
		1						
Click here to enter a date.								
DATE COMPLETED:		COMPLET	red By:					

### **APPENDIX A**

### WATER SYSTEM OPERATING CONDITIONS FOR

Kerry Village Water System 1311307 175 Ingram Street Duncan, BC V9L 1N8

The permit holder is advised that the following Terms and Conditions are in addition to other legislated responsibilities and obligations outlined in the Drinking Water Protection Act, ([SBC 2001] Chapter 9) and the B.C. Reg. 200/2003 O.C. 508/2003 Drinking Water Protection Regulation.

### 1. Authorized Waterworks System

The water supply system owner is authorized to operate 2 groundwater wells: New Well #1 (WTN 115228/WID 52150) and Briarwood Well #2 (WTN 52011/WID 22414), an iron and manganese treatment system consisting of pre-oxidation with chlorine, dual Greensand Plus and Filox-R media filters, backwash pump, distribution pumps, fire pump, other related appurtenances to disinfect water, and a distribution system consisting of storage and transmission facilities to supply potable water for domestic purposes the existing and future development of the community of Kerry Village, in Cobble Hill BC.

### 2. Performance Standards

The water supply system owner shall ensure that the manganese removal system is operated in a manner to maintain the concentration of manganese in the finished water at or below 0.12 mg/L

- 3. Performance Objectives
- 3.1 New Well #1 (WTN 115228/WID 52150) and Briarwood Well #2 (WTN 52011/WID 22414) were assessed in accordance with the British Columbia Ministry of Health "Guidance Document for Determining Ground Water at Risk of Containing Pathogens (GARP), Version 3, September 2017" and a determination of "At Low Risk (GARP)" was made.

Determining whether a ground water source is GARP is not regarded as a one-time process but is subject to the results of continued long-term monitoring of the water supply system and the conditions of the aquifer, well capture zone, and watershed over time. Changes to water quality or conditions may require the water to be treated in accordance with the Drinking Water Treatment Objectives (Microbiological) for Ground Water Supplies (GWTO) in British Columbia Version 1, November 2015 (or most recent version).

3.2 The water supply system owner shall ensure a minimum chlorine residual as outlined in the "British Columbia Guidelines (Microbiological) on Maintaining Water Quality in Distribution Systems, Version 1/2

Date:	August 7, 2024	Issue	Issued By:	A Gardeno N	
	4			ironmental Health Officer	

#### **APPENDIX A**

#### WATER SYSTEM OPERATING CONDITIONS FOR

Kerry Village Water System 1311307 175 Ingram Street Duncan, BC V9L 1N8

August 2016 (or most recent edition).

3.3 The water supply system owner shall ensure a maximum acceptable concentration of manganese in the finished water is not exceeded as outlined in the "Guideline for Canadian Drinking Water Quality (GCDWQ) Guideline Technical Document for Manganese and the British Columbia Ministry of Health: Guidance on Manganese in Drinking Water Version 1.1 May 2019 (or most recent edition).

Minor deviations of these objectives may need attention by operating staff, but may not necessarily constitute a treatment violation.

4. Water Quality Monitoring and Reporting Requirements
The water system operator shall adhere to a monitoring program as approved by the Drinking Water Officer (DWO) and maintain detailed and accurate records of all monitoring performed. The monitoring program must include but is not limited to the following:

4.1 Chemical, Physical, Protozoan, and Bacteria Monitoring

The water supply system owner shall provide and maintain suitable sampling ports to obtain raw and finished water samples.

- 4.1.1 Monthly Bacteriological Sampling
- S 1 Well #1 2765 Sheldrake Road
- S 4 Briarwood Well #2

Semi-Monthly Bacteriological Sampling

- S 2 1045 Bourban Road Treatment Building
- S 3 1070 Briarwood Kerry Village
- 4.1.2 A chemical analysis of raw/untreated water from the source water wells in accordance with the list of parameters specified in the Island Health's Source Water Assessment Guideline Appendix B: Minimum Sampling Parameters for Ground Water Sources at a frequency of no less than once every 5 years. Maximum acceptable concentrations finished/delivered water must comply with the Guidelines for Canadian Drinking Water Quality.

		,		Environmental Health Officer
Date:	August 7, 2024		Issued By: _	MGardner

#### **APPENDIX A**

### WATER SYSTEM OPERATING CONDITIONS FOR

Kerry Village Water System 1311307 175 Ingram Street Duncan, BC V9L 1N8

4.1.3 Chemical analyses of the treated water specific to the concentration of manganese, at a frequency of no less than once every year. Samples must be collected from sites representative of water quality immediately following the manganese removal treatment equipment, and from a location within the distribution system that is most likely to have the highest concentration of manganese. Maximum acceptable concentrations must comply with the Guidelines for Canadian Drinking Water Quality.

Date: August 7, 2024 Issued By:

**Environmental Health Officer** 

# Kerry Village Water System

## **Facility Information**

Location175 Ingram Street DuncanType15 - 300 Connections

## **Facility Sampling History**

leasting	Dela	Total California	E Cali/Entaragasi
<b>Location</b> S2 1045 Bourbon Road Treatment Building	<b>Date</b> 16-Dec-2024	Total Coliform	E. Coli/Enterococci
S3 1070 Briarwood Drive	16-Dec-2024	LT1	LT1
S2 1045 Bourbon Road Treatment Building	09-Dec-2024	LT1	LT1
S3 1070 Briarwood Drive	03-Dec-2024	LT1	LT1
S2 1045 Bourbon Road Treatment Building	26-Nov-2024	LT1	LT1
S3 1070 Briarwood Drive	18-Nov-2024	LT1	LT1
S2 1045 Bourbon Road Treatment Building	12-Nov-2024	QRWRT	QRWRT
S3 1070 Briarwood Drive	05-Nov-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	28-Oct-24	LT1	LT1
S3 1070 Briarwood Drive	21-Oct-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	15-Oct-24	LT1	LT1
S3 1070 Briarwood Drive	07-Oct-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	02-Oct-24	LT1	LT1
S3 1070 Briarwood Drive	23-Sep-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	17-Sep-24	LT1	LT1
S3 1070 Briarwood Drive	09-Sep-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	03-Sep-24	LT1	LT1
S3 1070 Briarwood Drive	26-Aug-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	19-Aug-24	LT1	LT1
S3 1070 Briarwood Drive	13-Aug-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	07-Aug-24	LT1	LT1
S3 1070 Briarwood Drive	31-Jul-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	23-Jul-24	LT1	LT1
S3 1070 Briarwood Drive	15-Jul-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	08-Jul-24	LT1	LT1
S3 1070 Briarwood Drive	02-Jul-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	24-Jun-24	LT1	LT1
S3 1070 Briarwood Drive	17-Jun-24	QRWRT	QRWRT
S2 1045 Bourbon Road Treatment Building	12-Jun-24	LT1	LT1
S3 1070 Briarwood Drive	03-Jun-24	LT1	LT1
S3 1070 Briarwood Drive	03-Jun-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	28-May-24	LT1	LT1
S3 1070 Briarwood Drive	21-May-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	13-May-24	LT1	LT1
S3 1070 Briarwood Drive	07-May-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	29-Apr-24	LT1	LT1
S3 1070 Briarwood Drive	22-Apr-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	15-Apr-24	LT1	LT1
S3 1070 Briarwood Drive	08-Apr-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	02-Apr-24	LT1	LT1
S3 1070 Briarwood Drive	25-Mar-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	18-Mar-24	LT1	LT1
S3 1070 Briarwood Drive	13-Mar-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	05-Mar-24	LT1	LT1

# Kerry Village Water System

## **Facility Information**

Location175 Ingram Street DuncanType15 - 300 Connections

## **Facility Sampling History**

<b>Location</b> S3 1070 Briarwood Drive	<b>Date</b> 26-Feb-24	Total Coliform	E. Coli/Enterococci
S2 1045 Bourbon Road Treatment Building	20-Feb-24	LT1	LT1
S3 1070 Briarwood Drive	13-Feb-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	05-Feb-24	LT1	LT1
S3 1070 Briarwood Drive	30-Jan-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	23-Jan-24	LT1	LT1
S3 1070 Briarwood Drive	15-Jan-24	LT1	LT1
S2 1045 Bourbon Road Treatment Building	08-Jan-24	LT1	LT1
S3 1070 Briarwood Drive	02-Jan-24	LT1	LT1

### **KERRY VILLAGE WATER SYSTEM**

SOURCE - 1080 Shaw/Mill Bay Road Well (Sheldrake)

			Sample ID	WELL 1080 SHAW/MILL BAY	
				,	RD (WTX 40244)
			Sampling Date	09/04/24	09/17/24
	•		Sampling Time	3:20 PM	1:00 PM
Parameter Name	MAC	AO	Units	Result	Result2
Nitrite (N)	1		mg/L	<0.0050	
Nitrate (N)	10		mg/L	<0.020	
Conductivity			uS/cm	210	
рН			рН	7.76	
Total Dissolved Solids		500	mg/L	120	
Alkalinity (PP as CaCO3)			mg/L	<1.0	
Alkalinity (Total as CaCO3)			mg/L	97	
Bicarbonate (HCO3)			mg/L	120	
Carbonate (CO3)			mg/L	<1.0	
Hydroxide (OH)			mg/L	<1.0	
Chloride (Cl)		250	mg/L	6.7	
Sulphate (SO4)		500	mg/L	2.4	
True Colour		15	Col. Unit	3.8	
Nitrate plus Nitrite (N)			mg/L	<0.020	
Langelier Index (@ 20C)			N/A	-0.279	
Langelier Index (@ 4C)			N/A	-0.53	
Saturation pH (@ 20C)			N/A	8.04	
Saturation pH (@ 4C)			N/A	8.29	
Dissolved Fluoride (F)	1.5		mg/L	<0.050	
Tannins and Lignins			mg/L	<0.2	
Turbidity	see remark	see remark	NTU	4.7	
Total Hardness (CaCO3)			mg/L	85	
Total Aluminum (Al)	2900		ug/L	<3.0	
Total Antimony (Sb)	6		ug/L	<0.50	
Total Arsenic (As)	10		ug/L	0.26	
Total Barium (Ba)	2000		ug/L	30.3	
Total Beryllium (Be)			ug/L	<0.10	
Total Bismuth (Bi)			ug/L	<1.0	
Total Boron (B)	5000		ug/L	72	
Total Cadmium (Cd)	7		ug/L	<0.010	
Total Chromium (Cr)	50		ug/L	<1.0	
Total Cobalt (Co)			ug/L	<0.20	
Total Copper (Cu)	2000	1000	ug/L	<0.20	
Total Iron (Fe)		300	ug/L	1480	
Total Lead (Pb)	5		ug/L	<0.20	
Total Manganese (Mn)	120	20	ug/L	176	
Total Molybdenum (Mo)			ug/L	<1.0	
Total Nickel (Ni)			ug/L	<1.0	
Total Selenium (Se)	50		ug/L	<0.10	
Total Silicon (Si)			ug/L	10900	
Total Silver (Ag)			ug/L	<0.020	
Total Strontium (Sr)	7000		ug/L	98.2	
Total Thallium (TI)			ug/L	<0.010	
Total Tin (Sn)			ug/L	<5.0	

### **KERRY VILLAGE WATER SYSTEM**

SOURCE - 1080 Shaw/Mill Bay Road Well (Sheldrake)

			Sample ID  Sampling Date Sampling Time		WELL 1080 SHAW/MILL BAY RD (WTX 40244) 09/17/24 1:00 PM
Parameter Name	MAC	AO	Units	Result	Result2
Total Titanium (Ti)			ug/L	<5.0	
Total Uranium (U)	20		ug/L	<0.10	
Total Vanadium (V)			ug/L	<5.0	
Total Zinc (Zn)		5000	ug/L	<5.0	
Total Zirconium (Zr)			ug/L	<0.10	
Total Calcium (Ca)			mg/L	21.4	
Total Magnesium (Mg)			mg/L	7.64	
Total Potassium (K)			mg/L	0.659	
Total Sodium (Na)		200	mg/L	7.95	
Total Sulphur (S)			mg/L	<3.0	
Total Mercury (Hg)	1		ug/L	<0.0019	
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.48	
Total Organic Carbon (C)			mg/L	0.53	
Total Nitrogen (N)			mg/L	0.478	
Total Ammonia (N)			mg/L	0.41	
Sulphide (as H2S)		0.05	mg/L	0.011	
Total Sulphide		0.05	mg/L	0.0099	
Total Coliforms	0		CFU/100mL	<2	0
E. coli	0		CFU/100mL	<2	0
Heterotrophic Plate Count			CFU/mL	26	
Fecal Coliforms			CFU/100mL	<2	
Non-Coliform (Background)			CFU/100mL	<2	
Iron Bacteria			CFU/mL	<25	
Sulphate reducing bacteria			CFU/mL	<75	

### **KERRY VILLAGE WATER SYSTEM**

SOURCE - 1080 Shaw/Mill Bay Road Well (Sheldrake)

			Sample ID	S1 Water Treatment Bldg (WTX 28050)	S3 -1070 Briarwood Dr (WTX 27ADC)	S1 WATER TREATMENT BLDG (WTX 28050)	S1 WATER TREATMENT BLDG (WTX 28050)	S1 WATER TREATMENT BLDG (WTX 28050)
		Sampling Date	01/04/24	01/04/24	04/02/24	07/11/24	11/27/24	
		Sampling Time	11:00 AM	11:15 AM	12:10 PM	10:25 AM	1:10 PM	
Parameter Name	MAC	AO	Units	Result	Result2	Result3	Result4	Result5
Total Manganese (Mn)	120	20	ug/L	<1.0	3	1.7	<1.0	2.4