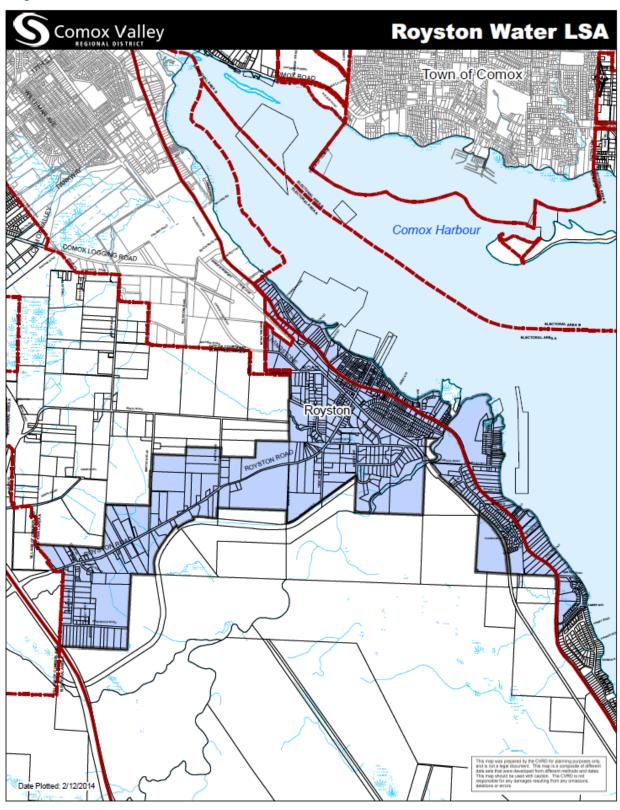


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Map of Service Area



Introduction

The Comox Valley Regional District (CVRD) strives to provide high quality drinking water to the Royston Water Local Service Area, through responsible operation, monitoring and management of the water system. The CVRD is regulated by Island Health as part of the Ministry of Health for its activities as a potable water supplier. Under the *Drinking Water Protection Act* (DWP Act), the CVRD is required to report annually on water quality for the Royston Drinking Water System. This report covers the period from January 1 to December 31, 2020 and includes information on water quality, consumption, maintenance and capital projects.

The Royston Water Service provides domestic water to approximately 2,100 residents located in the CVRD Baynes Sound – Denman/Hornby Islands (Electoral Area A). The service is owned and operated by the CVRD and is funded through a combination of frontage tax and user rates.



Figure No.1: Pressure Reducing Valve

Treated water is supplied for the service area via a transmission main from the Village of Cumberland. Once water enters the Royston Water System it is given a secondary dose of chlorine prior to distribution. The system consists of two reservoirs and five pressure reducing valve chambers.

Operations

Goals

To provide high quality drinking water to all customers through efficient and effective disinfection and distribution operations.

Water Quality Summary

Parameter ¹	2019	2020	Target
Water Disinfection			
Chlorine Residual (mg/L)- Royston Reservoir	1.16	1.15	<2.0
Trihalomethanes (mg/L)	0.075	0.062	< 0.1
Residual Disinfection			
Chlorine Residual - Distribution System (mg/L)	0.62	0.56	>0.20
Total Coliforms (Positive Samples)	0	0	0
E.Coli (Positive Samples)	0	0	0
Canadian Drinking Water Quality Guidelines			
Distribution Turbidity (average NTU)	0.58	0.68	<1.0
Distribution Water Temperature (Celsius)	12.3	12.3	<15
Distribution Water pH	7.2	7.3	7.0-8.5

¹More information for each parameter is available later on in the report.

The Ministry of Health regulates municipal drinking water quality through the DWP Act and the *Drinking Water Protection Regulation* (the Regulation). The DWP Act and Regulation are administered by regional health authorities, and for the CVRD, the administering authority is Island Health. Both the DWP Act and Regulation set out certain requirements for drinking water operators and suppliers to ensure the provision of safe drinking water to their customers.

In the Royston Water System, treated water is received via a transmission main from the Village of Cumberland and is given a secondary dose of chlorine prior to distribution. After the water is rechlorinated it proceeds into the distribution system, either directly to the Kentwood Road area or via a series of reservoirs and pressure reducing valves. The CVRD takes weekly water quality samples at five fixed locations within the distribution system to ensure that water is meeting provincial objectives. Testing for distribution by-products is taken from the Royston Reservoir and a water chemistry report is completed quarterly. A summary and description of water quality results are described below.

Disinfection

All water supply systems governed by Island Health that are using surface water are required to adhere to provincial 4-3-2-1-0 surface water treatment objectives to ensure that the water treatment process is effectively killing disease causing viruses, bacteria and parasites. The 4-3-2-1-0 objectives are as follows:

- 4-log (99.99 per cent) removal/inactivation of viruses;
- 3-log (99.9 per cent) removal/inactivation of giardia cysts and cryptosporidium oocysts;
- 2 treatment processes, usually filtration and disinfection;
- 1 NTU turbidity (maximum) in finished water;
- No detectable E.Coli, fecal coliforms and total coliforms in treated water.

Currently the source water for the Royston system is already treated by the Village of Cumberland and is compliant with provincial regulations. However for water quality assurance purposes, prior to the water entering the Royston system, water is given a secondary dose of chlorine.

By dosing the water with chlorine, a free chlorine residual is established throughout the distribution network to help prevent bacteriological regrowth. The free chlorine residual is an indicator of the effectiveness of disinfection within the distribution system. The CVRD strives to maintain a free chlorine residual above 0.2mg/L at the end of the system. The CVRD regularly monitors the chlorine residual throughout the distribution network at five fixed locations. The average results are shown in Figure No.3 below.



Figure No.2: Chlorine Injection at the Royston Chlorination Station.

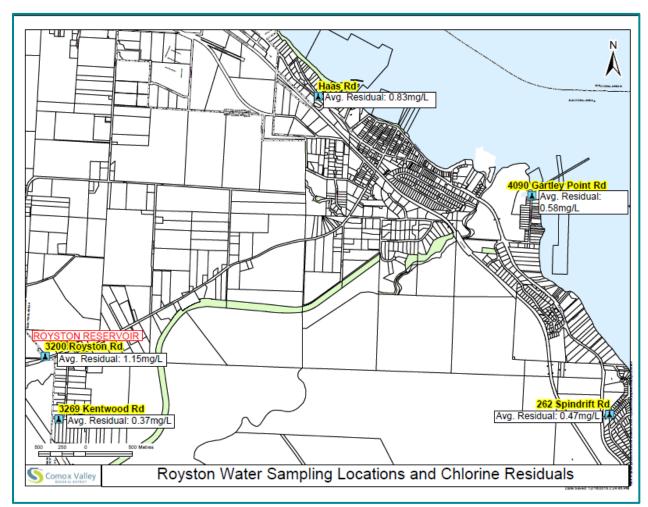


Figure No.3: Average Chlorine Residual at the Royston Sampling Locations

A by-product of chlorination can be Trihalomethanes (THM). There are four types of THM's that contribute to the total THM's. Chloroform is the most common THM and is formed when natural organic matter reacts with chlorine and/or bromine in disinfected water. The guidelines require that the total THM's for drinking water must be less than $0.1 \, \text{mg/L}$, THM's were sampled tri-annually. Table No.1 below shows the average THM's at the Royston Reservoir. No THM results were higher than the guidelines.

Table No.1: Average Total THM Concentration at the Royston Reservoir

Trihalomethanes	Royston Reservoir
Chloroform	0.060
Bromodichloromethane	0.002
Dibromochlromethane	< 0.001
Bromoform	< 0.001
Average Total THMs (mg/L)	0.062

Bacteria

E.Coli and total coliform bacteria are microorganisms that if present in water samples indicate possible contamination with sewage or animal wastes. Chlorination helps to inactivate harmful pathogens within the water supply network. Table No.2 below shows that within the Royston Water Distribution System for 2020, there were zero positive results found for E.Coli and total coliforms.

Table No.2: Bacteriological Standards and Sampling Results

Results	E.0	Coli	Total Colifo	orm Bacteria
Results	Exceedances	# of Samples	Exceedances	# of Samples
January	0	5	0	5
February	0	5	0	5
March	0	4	0	4
April	0	5	0	5
May	0	5	0	5
June	0	5	0	5
July	0	5	0	5
August	0	5	0	5
September	0	5	0	5
October	0	5	0	5
November	0	5	0	5
December	0	5	0	5
Totals	0 exceedances	per 60 samples	0 exceedances	per 60 samples

Canadian Drinking Water Guidelines

Health Canada develops the *Canadian Drinking Water Guidelines*. These are guidelines for limits on microbial, chemical, physical and radiological substances in drinking water. In the guidelines, health-based limits are identified for each substance as maximum allowable concentrations. The guidelines also assign aesthetic objectives to substances that do not cause risk to human health, but will influence consumer acceptance of the water based on factors such as taste, odour and colour.

Table No.3 shows the Royston Reservoir drinking water averages concentration for multiple parameters compared to the guideline concentrations. In 2020, the system was below all maximum allowable concentrations and aesthetic objectives as illustrated in Table No.3.

More information on the parameters listed below, including common sources and health considerations, can be found on the <u>Health Canada website</u>.

Table No.3: Average Chemical and Physical Parameters at Royston Reservoir Compared to Guideline Concentrations

Parameter	Royston Reservoir (mg/L)	Guideline Concentration (mg/L)
Aluminum	0.0137	<u>≤</u> 0.1
Arsenic	< 0.0001	<u><</u> 0.01
Barium	0.001	<u>≤</u> 1.0
Boron	< 0.05	<u>≤</u> 5.0
Chloride	4.4	250
Chromium	< 0.001	<u>≤</u> 0.05
Copper	0.0218	1
Iron	0.170	<u>≤</u> 0.30
Lead	0.00047	<u><</u> 0.01
Manganese	0.0145	<u>≤</u> 0.05
Nitrite (as N)	< 0.005	1
Selenium	< 0.0001	<u>≤</u> 0.05
Sodium	3.12	<u>≤</u> 200
Sulphate	1.3	<500
Zinc	< 0.025	<u><</u> 5

Turbidity

The Canadian Drinking Water Guidelines also recommend the turbidity to be below one NTU. Turbidity is the measure of relative clarity of a liquid. Clarity is important when producing drinking water for human consumption and in many manufacturing uses. The average turbidity within the system was 0.68 NTU.

Temperature

Temperature is described as an aesthetic objective (a parameter that may impair the taste, smell or colour of water) and physical characteristic of water. Gradual variations in water temperature occur throughout the seasons, however significant changes in water temperature can upset chlorination and chemical water treatment processess. The guidelines recommend water temperature to be less than 15 degrees celsius. The average temperature for the distribution water was 12.3 degrees celsius.

pΗ

The pH of water is a measure of water acidity. pH has minimal impact for water consumers and varies greatly depending on the water source. However, pH is very important for many operational water quality parameters. The *Canadian Drinking Water Guidelines* recommend the pH ranging between 7-10.5, in 2020, the the average pH within the distribution system was 7.3 pH.

Planning

Goals

To ensure effective long-term planning and management programs are in place to meet the needs of all users groups while minimizing operation and infrastructure costs.

Consumption

The average daily water consumption for the system was 692m³/day. A comparison of demands from the past ten years reveals a decrease in the average daily demand while the maximum daily demand has remained almost unchanged. Over the past ten years the highest daily demand has occurred within June, July or August, illustrating that water consumption increases in the summer months. Figure No.4 shows the total yearly consumption for Royston from 2016 to 2020.

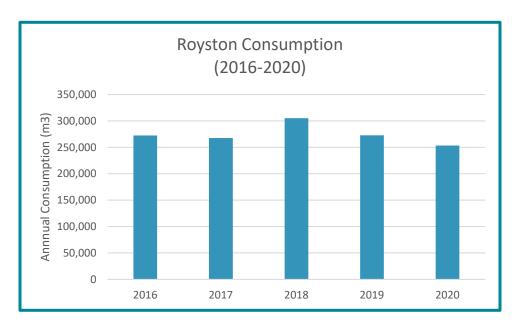


Figure No.4: Royston Yearly Consumption

Maintenance

The Royston Water System is owned and operated by the CVRD. Water services staff consists of eight operators and a technician with varying ranges of certification. Each operator is registered with

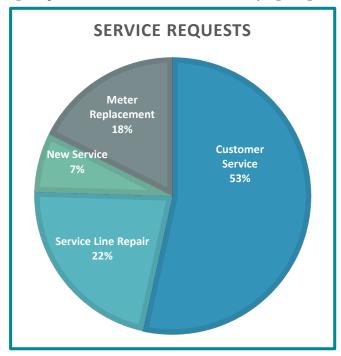


Figure No.5: Service Requests by Category

the Environmental Operator's Certification Program within BC and is required to remain in good standing by taking yearly continuing education courses.

The CVRD carries out regular and routine maintenance of the entire Royston Water System, to ensure continued operation and supply of safe and clean water to all users. The chlorination facility, distribution lines and reservoirs are regularly inspected and maintained.

159 service requests within the system were investigated by the CVRD's Waterworks Operations Staff. Figure No.5 identifies the breakdown of the various types of service requests received by waterworks staff.

Financial

In 2020, the CVRD supplied a total of 253,458 m³ of water. Water for the Royston system is supplied in bulk from the Village of Cumberland. The bulk water rate increased to \$0.81/m³ in 2020 with no increases planned for 2021. No changes to residential and commercial users' water rates occurred in 2020. As part of the water supply agreement with the Village of Cumberland, the CVRD continues to review alternate water supply options. Further work, including project scoping and discussions with potential project partners on alternate water sources is ongoing and planned to be continued into 2021.

2020 Accomplishments

- ✓ Design and engineering of upgrade to watermain along Minto Road.
- ✓ Continued investigation into alternate source water supply options.

2021 Objectives

- Complete year one of five of the residential water meter replacement program prioritizing Royston Road and Island Highway to increase safety of operators conducting meter reading.
- Identify design options to extend Comox Valley Water System distribution south to service the Royston area.
- Upgrade the Royston pressure reducer valve chamber for seismic improvements.
- Install the Minto Road watermain upgrade.

	ROYSTON DISTRIBUTION SYSTEM												
		Chlorine R	esidual (mg/	'L)			E.Co	i			Total Coli	forms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
01-Jan-20													
02-Jan-20													
03-Jan-20													
04-Jan-20													
05-Jan-20													
06-Jan-20				0.71					<1				<1
07-Jan-20													
08-Jan-20													
09-Jan-20													
10-Jan-20													
11-Jan-20													
12-Jan-20													
13-Jan-20	1.25	0.33						<1				<1	
14-Jan-20													
15-Jan-20													
16-Jan-20													
17-Jan-20													
18-Jan-20													
19-Jan-20													
20-Jan-20			0.45				<1				<1		
21-Jan-20													
22-Jan-20													
23-Jan-20													
24-Jan-20													
25-Jan-20													
26-Jan-20													
27-Jan-20					0.49	<1				<1			
28-Jan-20													
29-Jan-20													
30-Jan-20													
31-Jan-20													
01-Feb-20													

					RO	OYSTON DIST	RIBUTION	SYSTEM					
		Chlorine R	esidual (mg/	L)			E.Co	li			Total Coli	iforms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
02-Feb-20													
03-Feb-20				0.8					<1				<1
04-Feb-20													
05-Feb-20													
06-Feb-20													
07-Feb-20													
08-Feb-20													
09-Feb-20													
10-Feb-20	1.07	0.35						<1				<1	
11-Feb-20													
12-Feb-20													
13-Feb-20													
14-Feb-20													
15-Feb-20													
16-Feb-20													
17-Feb-20													
18-Feb-20			0.25				<1				<1		
19-Feb-20													
20-Feb-20													
21-Feb-20													
22-Feb-20													
23-Feb-20													
24-Feb-20					0.72	<1				<1			
25-Feb-20													
26-Feb-20													
27-Feb-20													
28-Feb-20													
29-Feb-20													
01-Mar-20				0.94					<1				<1
02-Mar-20													
03-Mar-20													

$\overline{}$					R	OYSTON DIST	RIBUTION S	SYSTEM					
ſ		Chlorine R	esidual (mg/	'L)			E.Co	li			Total Col	iforms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
04-Mar-20													
05-Mar-20													
06-Mar-20													
07-Mar-20													
08-Mar-20	1.15	0.44						<1				<1	
09-Mar-20													
10-Mar-20													
11-Mar-20													
12-Mar-20													
13-Mar-20													
14-Mar-20													
15-Mar-20			0.71				<1				<1		
16-Mar-20													
17-Mar-20													
18-Mar-20													
19-Mar-20													
20-Mar-20													
21-Mar-20													
22-Mar-20					0.89	<1				<1			
23-Mar-20													
24-Mar-20													
25-Mar-20													
26-Mar-20													
27-Mar-20													
28-Mar-20													
29-Mar-20													
30-Mar-20													
31-Mar-20													
01-Apr-20													
02-Apr-20													
03-Apr-20													

					R	OYSTON DIST	RIBUTION S	SYSTEM					
		Chlorine R	esidual (mg/	L)			E.Co	li			Total Coli	forms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
04-Apr-20													
05-Apr-20				0.72					<1				<1
06-Apr-20													
07-Apr-20													
08-Apr-20													
09-Apr-20													
10-Apr-20													
11-Apr-20													
12-Apr-20													
13-Apr-20	1.16	0.46						<1				<1	
14-Apr-20													
15-Apr-20													
16-Apr-20													
17-Apr-20													
18-Apr-20													
19-Apr-20			0.62				<1				<1		
20-Apr-20													
21-Apr-20													
22-Apr-20													
23-Apr-20													
24-Apr-20													
25-Apr-20													
26-Apr-20					0.6	<1				<1			
27-Apr-20													
28-Apr-20													
29-Apr-20													
30-Apr-20													
01-May-20													
02-May-20													
03-May-20				0.79					<1				<1
04-May-20													

					R	OYSTON DIST	RIBUTION	SYSTEM					
		Chlorine R	esidual (mg/	'L)			E.Co	li			Total Coli	iforms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
05-May-20													
06-May-20													
07-May-20													
08-May-20													
09-May-20													
10-May-20	1.31	0.54						<1				<1	
11-May-20													
12-May-20													
13-May-20													
14-May-20													
15-May-20													
16-May-20													
17-May-20													
18-May-20			0.51				<1				<1		
19-May-20													
20-May-20													
21-May-20													
22-May-20													
23-May-20													
24-May-20					0.85	<1				<1			
25-May-20													
26-May-20													
27-May-20													
28-May-20													
29-May-20													
30-May-20													
31-May-20				1.16					<1				<1
01-Jun-20													
02-Jun-20													
03-Jun-20													
04-Jun-20													

					R	OYSTON DIST	RIBUTION S	SYSTEM					
l [Chlorine R	esidual (mg/	L)			E.Co	li			Total Coli	forms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
05-Jun-20													
06-Jun-20													
07-Jun-20	1.17	0.29						<1				<1	
08-Jun-20													
09-Jun-20													
10-Jun-20													
11-Jun-20													
12-Jun-20													
13-Jun-20													
14-Jun-20			0.93				<1				<1		
15-Jun-20													
16-Jun-20													
17-Jun-20													
18-Jun-20													
19-Jun-20													
20-Jun-20													
21-Jun-20					0.88	<1				<1			
22-Jun-20													
23-Jun-20													
24-Jun-20													
25-Jun-20													
26-Jun-20													
27-Jun-20													
28-Jun-20													
29-Jun-20													
30-Jun-20													
01-Jul-20													
02-Jul-20													
03-Jul-20													
04-Jul-20													
05-Jul-20				1.08					<1				<1

					R	OYSTON DIST	RIBUTION S	SYSTEM					
		Chlorine Re	esidual (mg/	L)			E.Co	li			Total Coli	iforms	
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road
06-Jul-20													
07-Jul-20													
08-Jul-20													
09-Jul-20													
10-Jul-20													
11-Jul-20													
12-Jul-20	1.23	0.39						<1				<1	
13-Jul-20													
14-Jul-20													
15-Jul-20													
16-Jul-20													
17-Jul-20													
18-Jul-20													
19-Jul-20			0.56				<1				<1		
20-Jul-20													
21-Jul-20													
22-Jul-20													
23-Jul-20													
24-Jul-20													
25-Jul-20													
26-Jul-20					1.02	<1				<1			
27-Jul-20													
28-Jul-20													
29-Jul-20													
30-Jul-20													
31-Jul-20													
01-Aug-20													
02-Aug-20				0.65									-
03-Aug-20				0.65					<1				<1
04-Aug-20													
05-Aug-20													

					R	DYSTON DISTRIBUTION SYSTEM								
[Chlorine Ro	esidual (mg/	'L)			E.Co	li		Total Coliforms				
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road	
06-Aug-20														
07-Aug-20														
08-Aug-20														
09-Aug-20	1.09	0.31						<1				<1		
10-Aug-20														
11-Aug-20														
12-Aug-20														
13-Aug-20														
14-Aug-20														
15-Aug-20														
16-Aug-20			0.42				<1				<1			
17-Aug-20														
18-Aug-20														
19-Aug-20														
20-Aug-20														
21-Aug-20														
22-Aug-20														
23-Aug-20					0.69	<1				<1				
24-Aug-20														
25-Aug-20														
26-Aug-20														
27-Aug-20														
28-Aug-20														
29-Aug-20														
30-Aug-20														
31-Aug-20														
01-Sep-20														
02-Sep-20														
03-Sep-20														
04-Sep-20														
05-Sep-20														

	ROYSTON DISTRIBUTION SYSTEM													
		Chlorine R	esidual (mg/	'L)			E.Co	li		Total Coliforms				
Date	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road	
06-Sep-20														
07-Sep-20				1.1					<1				<1	
08-Sep-20														
09-Sep-20														
10-Sep-20														
11-Sep-20														
12-Sep-20														
13-Sep-20	1.2	0.21						<1				<1		
14-Sep-20														
15-Sep-20														
16-Sep-20														
17-Sep-20														
18-Sep-20														
19-Sep-20														
20-Sep-20			0.25				<1				<1			
21-Sep-20														
22-Sep-20														
23-Sep-20														
24-Sep-20														
25-Sep-20														
26-Sep-20														
27-Sep-20					0.22	<1				<1				
28-Sep-20														
29-Sep-20														
30-Sep-20														
01-Oct-20														
02-Oct-20														
03-Oct-20														
04-Oct-20	1.05	0.27						<1				<1		
05-Oct-20														
06-Oct-20														

					R	OYSTON DIST	RIBUTION S	SYSTEM						
Date		Chlorine R	esidual (mg/	L)			E.Co	li	1	Total Coliforms				
	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road	
07-Oct-20														
08-Oct-20														
09-Oct-20														
10-Oct-20														
11-Oct-20														
12-Oct-20				0.5					<1				<1	
13-Oct-20														
14-Oct-20														
15-Oct-20														
16-Oct-20														
17-Oct-20														
18-Oct-20														
19-Oct-20			0.2				<1				<1			
20-Oct-20														
21-Oct-20														
22-Oct-20														
23-Oct-20														
24-Oct-20														
25-Oct-20					0.46	<1				<1				
26-Oct-20														
27-Oct-20														
28-Oct-20														
29-Oct-20														
30-Oct-20														
31-Oct-20														
01-Nov-20				0.73					<1				<1	
02-Nov-20														
03-Nov-20														
04-Nov-20														
05-Nov-20														
06-Nov-20														

					R	OYSTON DIST	RIBUTION S	SYSTEM						
Date		Chlorine R	esidual (mg/	L)			E.Co	i		Total Coliforms				
	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road	
07-Nov-20														
08-Nov-20	1.1	0.26						<1				<1		
09-Nov-20														
10-Nov-20														
11-Nov-20														
12-Nov-20														
13-Nov-20														
14-Nov-20														
15-Nov-20			0.22				<1				<1			
16-Nov-20														
17-Nov-20														
18-Nov-20														
19-Nov-20														
20-Nov-20														
21-Nov-20														
22-Nov-20					0.27	<1				<1				
23-Nov-20														
24-Nov-20														
25-Nov-20														
26-Nov-20														
27-Nov-20														
28-Nov-20														
29-Nov-20														
30-Nov-20														
01-Dec-20														
02-Dec-20														
03-Dec-20														
04-Dec-20														
05-Dec-20														
06-Dec-20				0.65					<1				<1	
07-Dec-20														

					R	OYSTON DISTRIBUTION SYSTEM								
Date		Chlorine R	esidual (mg/	'L)			E.Co	li		Total Coliforms				
	Reservoir Outlet	3269 Kentwood	262 Spindrift	3771 Haas	4090 Gartley	4090 Gartley Pt.	262 Spindrift	3269 Kentwood	Haas Road	4090 Gartley Pt.	262 Spindrift	3269 Kentwod	Haas Road	
08-Dec-20														
09-Dec-20														
10-Dec-20														
11-Dec-20														
12-Dec-20														
13-Dec-20														
14-Dec-20			0.31				<1				<1			
15-Dec-20														
16-Dec-20														
17-Dec-20														
18-Dec-20														
19-Dec-20														
20-Dec-20	1.15	0.051						<1				<1		
21-Dec-20														
22-Dec-20														
23-Dec-20														
24-Dec-20														
25-Dec-20														
26-Dec-20														
27-Dec-20														
28-Dec-20					0.61	<1				<1				
29-Dec-20														
30-Dec-20														
Count	12	12	12	12	12	12	12	12	12	12	12	12	12	
Average	1.16	0.33	0.45	0.82	0.64	<1	<1	<1	<1	<1	<1	<1	<1	