



District of 100 Mile House

Annual Drinking Water Report

2020



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Introduction

This report was prepared in compliance with the requirements under the British Columbia Drinking Water Protection Act (DWPA) and the District of 100 Mile House Operating Permit. Included in this document is an overview of the treatment and distribution system within the District, a summary of the total water consumption and water quality analysis within the system and a recap of projects and related operations. This report has been provided to Interior Health and posted on the District of 100 Mile House website for public reading.

District of 100 Mile House Water System

The District of 100 Mile House drinking water system consists of a single treatment plant that feeds the distribution system through most areas of 100 Mile House. The water distribution system consists of three reservoirs, one booster station and two pressure reducing valves. The storage capacity of our reservoirs is as follows: Low Zone Reservoir - 1.2 million liters, High Zone Reservoir – 455,000 liters and the Exeter Reservoir – 1.6 Million Liters.

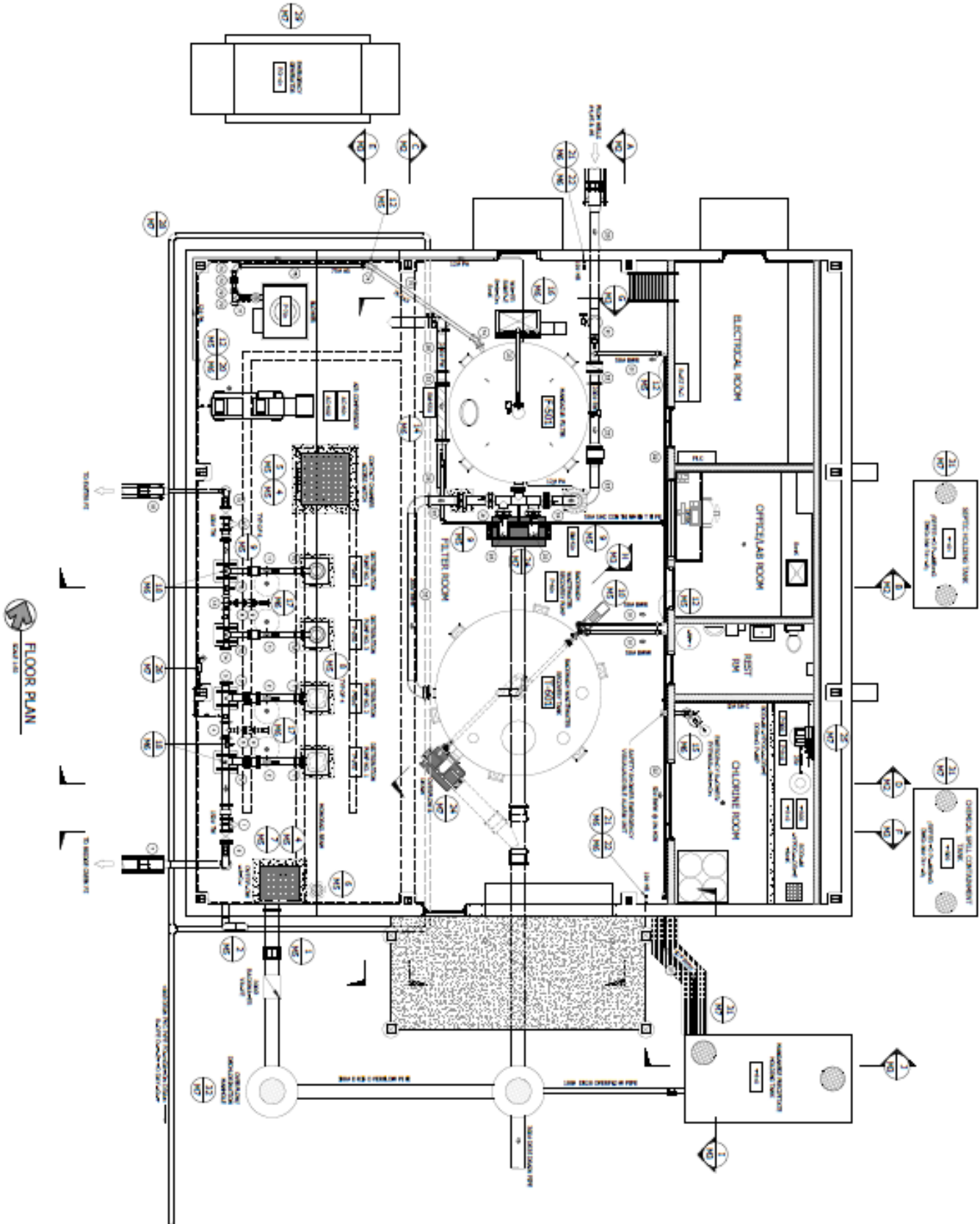
District of 100 Mile House Water Treatment Plant

The Water treatment plant commissioned in September 2018 treats ground water that is collected from three deep wells located next to the water treatment plant. The water is filtered through a Biological treatment process. When the well the water makes contact with the natural media, (the Biolite™ “S”) the natural occurring bacteria in the water start to consume the Manganese and Iron that is naturally present in the ground water which then forms the precipitate (sludge). The filtered water is then chlorinated and stored in our clear well before being introduced into the distributed system. The filter media is maintained through periodic backwashes which removes the precipitant (sludge) accumulated in the filter media. The bacteria naturally existing in the raw water stay in the media, even after an adapted wash of the filter. The backwashed water and waste material are then stored in the backwash wastewater recovery tank where the sludge will be sent to a holding tank, and the water will be recovered and reintroduced into the raw water entering the filter tank.



Figure 1: The District of 100 Mile House Water Treatment Plant





Water Treatment Plant Production

2020 water consumption was lower than any of the past 5 years.

Figure 2: Monthly Total Production for the Past 5 Years

						Year to Year Comparison		
	2016	2017	2018	2019	2020	Average	Minimum	Maximum
January	35,234	36,405	38,975	32,247	29,351	34,442	29,351	38,975
February	32,038	32,963	35,434	27,998	27,541	31,195	27,541	35,434
March	35,256	35,855	39,150	32,000	32,160	34,884	32,000	39,150
April	40,609	36,187	40,866	30,858	28,308	35,366	28,308	40,866
May	52,337	46,264	61,000	50,049	24,909	46,912	24,909	61,000
June	55,552	66,881	52,474	59,347	42,283	55,307	42,283	66,881
July	60,088	94,560	77,069	49,196	48,817	65,946	48,817	94,560
August	61,812	80,275	73,960	57,980	52,247	65,255	52,247	80,275
September	45,589	53,458	47,155	41,492	40,256	45,590	40,256	53,458
October	41,185	37,348	31,879	31,512	30,336	34,452	30,336	41,185
November	36,626	38,861	30,941	28,055	28,797	32,656	28,055	38,861
December	36,597	39,627	40,184	29,908	27,730	34,809	27,730	40,184
Total	532,923	598,704	569,087	470,637	422,735			
Daily Peak	3,098	3,866	3534	2881	2380			
Peak Date	18-Aug	06-Aug	14-July	10-Aug	20-Aug			
Daily Low	828	895	728	600	626			
Average Daily Usage	1460	1640	1559	1289	1157			

These monthly numbers can be graphically seen in Figure 3. Total consumption for 2020 was 47,902 cubic meters less than 2019. Consumption has been measured in cubic meters.



Figure 3: Graphical Representation of 2016 – 2020 Water Consumption

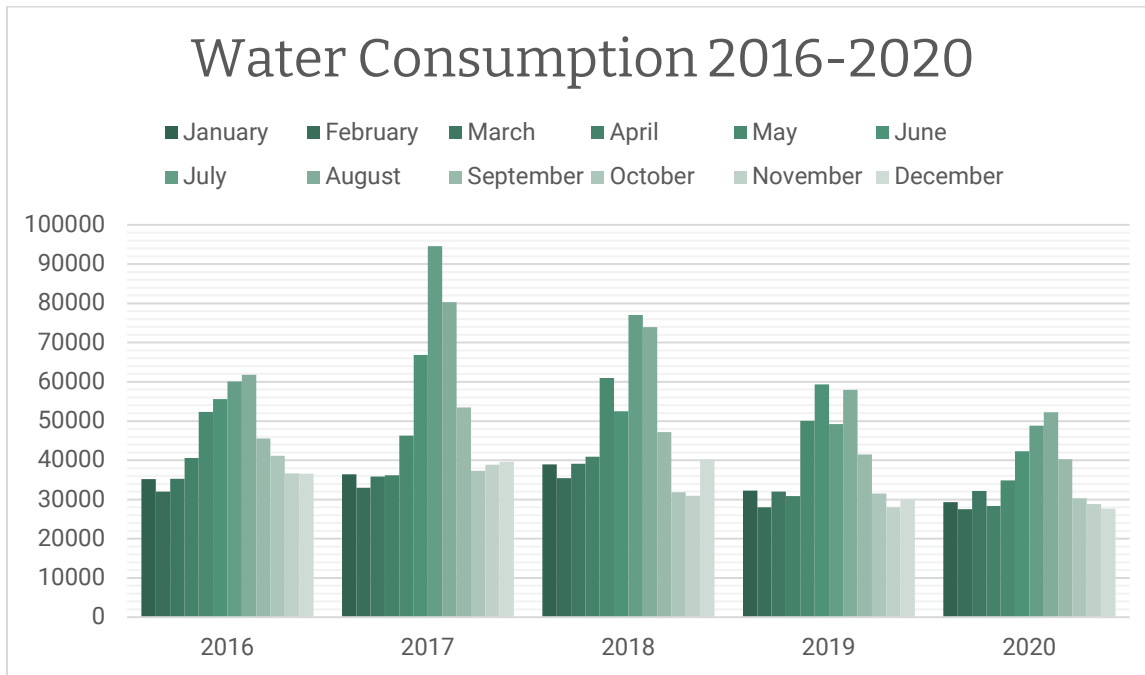
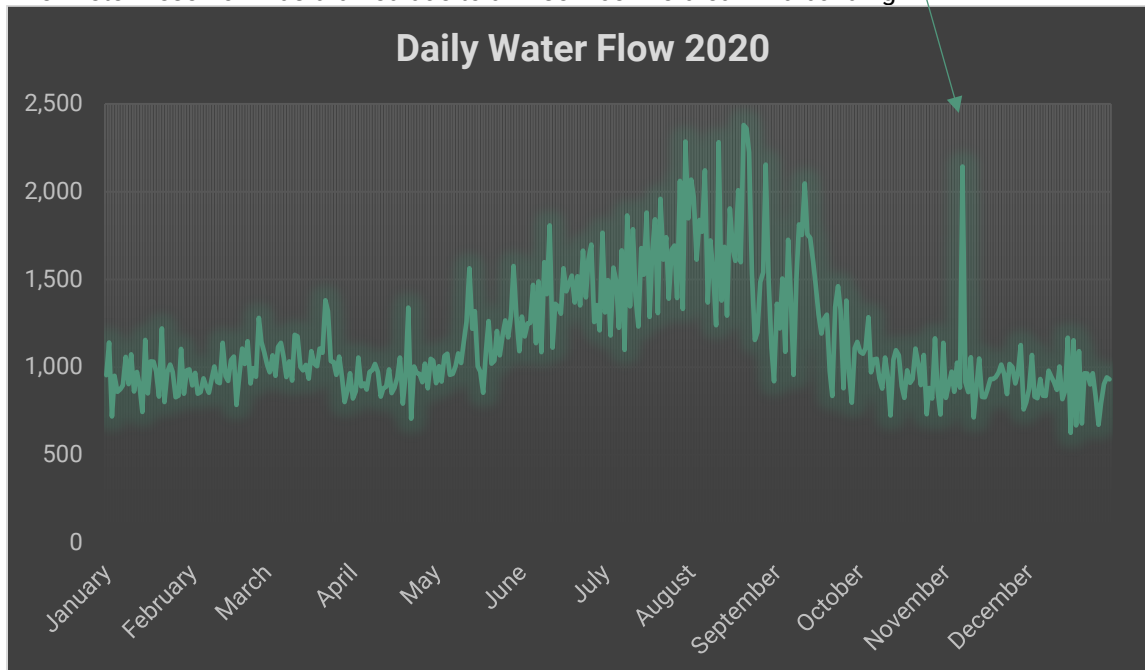


Figure 4 shows the daily water consumption for 2020. The daily peak for 2020 was 2380 cubic meters, which occurred on August 20th. The treatment plant can achieve a maximum daily flow of 3.45 million liters which allows room for population growth well into the future.

Figure 4: Daily Water Flows for 2020

The Exeter Reservoir was drained due to a 4" service line break in a building.



Distribution System Overview

The distribution system consists of 24.98 km of water mains, one booster station, two pressure reducing valves, three reservoirs, and a total of approximately 850 connections.

Distribution System

The maintenance of the distribution system consists of actively replacing lines that have either reached the end of their functional life, need upgrading due to inadequate sizing for development, or are in poor condition and cause issues.

Figure 5: Water Main Material Summary

Length by Material Type	Abandoned Pipe (km)	Existing Total (km)
PVC:	0.105	12.76
AC:	0.48	12.22
Total:	0.585	24.98

SCADA – Supervisory Control and Data Acquisition (SCADA)

The SCADA system is designed to allow operators real time data on how the Water treatment plant and distribution system are functioning, as well as enabling a operator to make changes to the operation of the Water treatment plant and booster station. The SCADA system is also designed to send an alarm to the operator if there is problem within the system to help ensure that the Districts water distribution system continues to function.



Water Quality Sampling and Analysis

The water quality from our source water, at the treatment facility and within the distribution system is analyzed extensively. Samples are collected daily and analyzed locally from the raw water and treated water at the plant. Bacteriological samples are also analyzed throughout the distribution system on a weekly basis. Samples of our source water and from within the distribution system are taken and sent off to an accredited lab for extensive analysis.

Water Quality Testing

There are a variety of parameters measured which are listed in the following paragraphs which are monitored at the plant in order to check the treatment process. The following Figure 6 summarizes the results of the daily analysis for the water treatment plant. These analyses are done in house by the certified operators at the District of 100 Mile House.

pH

pH is a measure of the activity of the hydrogen ion in water. It represents the acidity or basicity of water. The pH scale goes from 0 to 14 with anything smaller than 7 being acidic, anything greater than 7 being basic and 7 being neutral. Drinking water is regulated to fall between a pH of 6.5 to 8.5.

Free and Total Chlorine (Cl₂)

Chlorine levels are important in water treatment to ensure that water is safe all the way through the distribution system to each home. The primary form of chlorine used in our treatment system is sodium hypochlorite. Free chlorine measures the amount of hypochlorite in our water, while total chlorine measures the free chlorine plus any combined chlorine disinfectants such as chloramines. In our system we must maintain a residual free chlorine level of greater than 0.2 mg/L at the end of the distribution system.

	Average PH	Average Free Cl ₂	Average Total Cl ₂
January	7.9423	0.584	0.732
February	8.0103	0.733	0.912
March	8.1655	0.835	0.987
April	8.2227	0.879	1.054
May	8.2148	0.745	0.903
June	8.299	0.831	0.967
July	8.3437	0.851	0.997
August	8.3568	0.794	0.964
September	8.3633	0.859	1.001
October	8.3377	0.783	0.973
November	8.381	0.812	0.975
December	8.4239	0.84	0.977
Yearly Average	8.2551	0.795	0.954



Distribution Sampling

The District of 100 Mile House is committed to providing safe drinking water to each and every connection within its service area. To this end the distribution system is sampled at least 3 different locations weekly. These locations change on a weekly basis. These samples are analyzed for background bacterial counts, total coliforms and E. Coli.

Background Bacterial Monitoring

Background bacteria monitoring is done through what is called a heterotrophic plate count (HPC). Heterotrophic bacteria are a group of bacteria that use carbon as a food source and can be found in a variety of water sources. Most bacteria found in water are actually heterotrophic. In general, these bacteria are not pathogenic and the HPC test in itself will not tell you whether the water is bad to drink. Because of this there is no maximum acceptable concentration (MAC) as stated in the Canadian Drinking Water Guidelines. What this test does tell you is whether there are conditions within the system that bacteria can regrow or thrive in.

The District of 100 Mile House uses this test to monitor integrity and overall 'health' of the distribution system. If a sample is positive for background bacteria greater than 200 counts the system is flushed and resampled. Any positive counts of any size for background bacteria are also resampled immediately which is above and beyond any legislative requirements.

Coliform Bacterial Monitoring

Coliform bacteria are a group of bacteria that is a little more of a narrow focus from the HPC test. These bacteria again represent a large group of bacteria found in water, soil, on vegetation and in the feces of mammals. Most of these bacteria are not harmful to humans, but because of the ease of testing of this bacteria it makes for a great indicator of contamination.

In water treatment systems there is a zero threshold allowance for coliforms within water samples. If a sample shows up positive for coliforms the site is immediately resampled and if there are again coliforms a boil water advisory put in place. The distribution area is then pulled offline and cleaned before being put back into action and resampled.

E. Coli Bacterial Monitoring

E. Coli bacteria are a sub section of coliform bacteria. Again these bacteria may not be harmful to human health, but specific strains can cause serious health issues and even death in some instances. These bacteria are also found almost exclusively in warm blooded feces and therefore a definite sign of contamination. Any positive counts for coliforms or E.coli result in an immediate boil water advisory, resampling and cleaning of the affected area.

2020 Bacterial Monitoring Results

There was a total of one positive result for background bacteria and two positive for coliforms in 2020. After resampling the background bacteria positive sample, all results came back negative. After resampling both coliform positive results, all results came back negative. There were no positive results for E.Coli bacteria in 2020.



Figure 11: 2020 Distribution System Biological Sampling

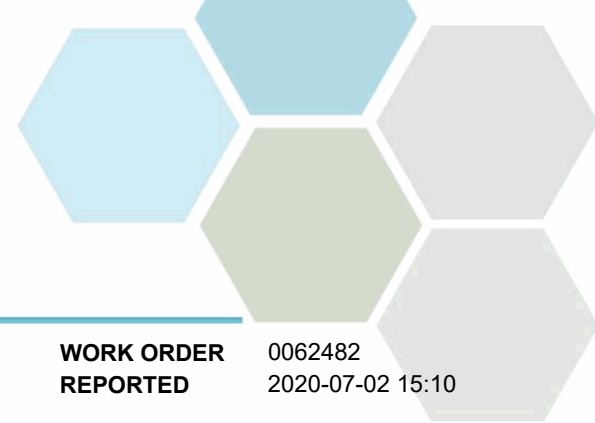
Date	Number of Samples	Samples Positive for Background Bacteria	Samples Positive for Coliforms	Samples Positive for E. Coli	Notes/ Measures Taken
Jan 7	3				
Jan 15	3				
Jan 22	3				
Jan 28	3				
Feb 4	3				
Feb 11	3				
Feb 18	3				
Feb 25	3				
Mar 3	3				
Mar 12	3				
Mar 17	3				
April 1	3				
April 7	3				
April 14	3				
April 21	3				
April 28	3				
May 5	3				
May 12	3				
May 19	3	1			
May 26	3				
June 2	3				
June 9	3				
June 16	3				
June 23	4				
June 29	3				
July 7	3				
July 14	3				
July 21	3				
July 28	3				
Aug 4	3				
Aug 11	3				
Aug 25	5				
Sept 1	3				
Sept 10	3				
Sept 15	3				
Sept 21	3				
Sept 29	3				
Oct 6	3				
Oct 13	3				
Oct 20	3		1		
Oct 23	1		1		
Oct 27	1				
Nov 3	3				
Nov 9	3				
Nov 17	3				
Nov 24	3				
Dec 1	3				
Dec 8	3				
Dec 15	3				
Dec 29	3				
Totals	148	1	2	0	



Quarterly Raw and Distribution Sampling

The following are extensive water quality analysis results as completed by a provincially accredited lab from the source water and within the distribution system. The samples were taken by District staff and sent off to CARO Analytical Services in Kelowna, BC. The results of these extensive analysis can be seen in below. As seen in the tables all of the treated water quality parameters are within the Guidelines for Canadian Drinking Water Quality.



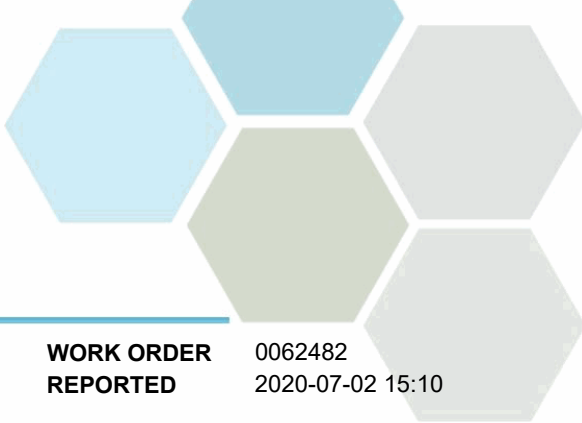


TEST RESULTS

REPORTED TO PROJECT 100 Mile House, District of Drinking Water - Chemistry

WORK ORDER REPORTED 0062482
2020-07-02 15:10

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
District Office (0062482-01) Matrix: Water Sampled: 2020-06-23 12:05					
Anions					
Chloride	78.7	AO ≤ 250	0.10 mg/L	2020-06-28	
Fluoride	0.12	MAC = 1.5	0.10 mg/L	2020-06-28	
Nitrate (as N)	0.429	MAC = 10	0.010 mg/L	2020-06-28	HT1
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2020-06-28	HT1
Sulfate	107	AO ≤ 500	1.0 mg/L	2020-06-28	
Calculated Parameters					
Hardness, Total (as CaCO3)	25.5	None Required	0.500 mg/L	N/A	
Langelier Index	0.2	N/A	-5.0	2020-07-02	
Solids, Total Dissolved	993	AO ≤ 500	10.0 mg/L	N/A	
General Parameters					
Alkalinity, Total (as CaCO3)	657	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Bicarbonate (as CaCO3)	657	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2020-06-27	
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2020-06-24	
Conductivity (EC)	1610	N/A	2.0 µS/cm	2020-06-27	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2020-06-26	
pH	8.26	7.0-10.5	0.10 pH units	2020-06-27	HT2
Temperature, at pH	22.3	N/A	°C	2020-06-27	HT2
Turbidity	0.11	OG < 1	0.10 NTU	2020-06-25	
Total Metals					
Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2020-06-29	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2020-06-29	
Arsenic, total	0.00128	MAC = 0.01	0.00050 mg/L	2020-06-29	
Barium, total	< 0.0050	MAC = 2	0.0050 mg/L	2020-06-29	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2020-06-29	
Cadmium, total	0.000020	MAC = 0.005	0.000010 mg/L	2020-06-29	
Calcium, total	3.67	None Required	0.20 mg/L	2020-06-29	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2020-06-29	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2020-06-29	
Copper, total	0.0471	MAC = 2	0.00040 mg/L	2020-06-29	
Iron, total	< 0.010	AO ≤ 0.3	0.010 mg/L	2020-06-29	
Lead, total	0.00031	MAC = 0.005	0.00020 mg/L	2020-06-29	
Magnesium, total	3.96	None Required	0.010 mg/L	2020-06-29	
Manganese, total	0.00169	MAC = 0.12	0.00020 mg/L	2020-06-29	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2020-06-29	
Molybdenum, total	0.00812	N/A	0.00010 mg/L	2020-06-29	
Nickel, total	0.00064	N/A	0.00040 mg/L	2020-06-29	
Potassium, total	0.65	N/A	0.10 mg/L	2020-06-29	
Selenium, total	0.00762	MAC = 0.05	0.00050 mg/L	2020-06-29	



TEST RESULTS

REPORTED TO PROJECT 100 Mile House, District of Drinking Water - Chemistry

WORK ORDER REPORTED 0062482
2020-07-02 15:10

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
District Office (0062482-01) Matrix: Water Sampled: 2020-06-23 12:05, Continued					
<i>Total Metals, Continued</i>					
Sodium, total	396	AO ≤ 200	0.10 mg/L	2020-06-29	
Strontium, total	0.0104	7	0.0010 mg/L	2020-06-29	
Uranium, total	0.00783	MAC = 0.02	0.000020 mg/L	2020-06-29	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2020-06-29	

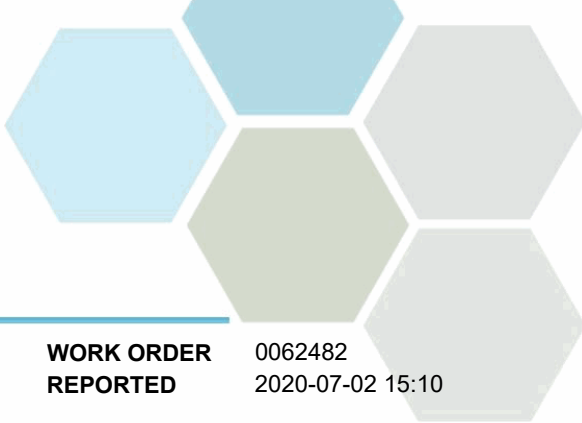
Exeter Reservoir (0062482-02) | Matrix: Water | Sampled: 2020-06-23 12:20

<i>Anions</i>					
Chloride	76.6	AO ≤ 250	0.10 mg/L	2020-06-28	
Fluoride	0.11	MAC = 1.5	0.10 mg/L	2020-06-28	
Nitrate (as N)	0.405	MAC = 10	0.010 mg/L	2020-06-28	HT1
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2020-06-28	HT1
Sulfate	107	AO ≤ 500	1.0 mg/L	2020-06-28	

<i>Calculated Parameters</i>					
Hardness, Total (as CaCO3)	613	None Required	0.500 mg/L	N/A	
Langelier Index	1.5	N/A	-5.0	2020-07-02	
Solids, Total Dissolved	895	AO ≤ 500	10.0 mg/L	N/A	

<i>General Parameters</i>					
Alkalinity, Total (as CaCO3)	653	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Phenolphthalein (as CaCO3)	1.2	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Bicarbonate (as CaCO3)	651	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Carbonate (as CaCO3)	2.3	N/A	1.0 mg/L	2020-06-27	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2020-06-27	
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2020-06-24	
Conductivity (EC)	1470	N/A	2.0 µS/cm	2020-06-27	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2020-06-26	
pH	8.29	7.0-10.5	0.10 pH units	2020-06-27	HT2
Temperature, at pH	22.8	N/A	°C	2020-06-27	HT2
Turbidity	0.16	OG < 1	0.10 NTU	2020-06-25	

<i>Total Metals</i>					
Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2020-06-29	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2020-06-29	
Arsenic, total	0.00154	MAC = 0.01	0.00050 mg/L	2020-06-29	
Barium, total	0.0097	MAC = 2	0.0050 mg/L	2020-06-29	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2020-06-29	
Cadmium, total	0.000011	MAC = 0.005	0.000010 mg/L	2020-06-29	
Calcium, total	60.9	None Required	0.20 mg/L	2020-06-29	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2020-06-29	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2020-06-29	
Copper, total	0.00694	MAC = 2	0.00040 mg/L	2020-06-29	
Iron, total	< 0.010	AO ≤ 0.3	0.010 mg/L	2020-06-29	



TEST RESULTS

REPORTED TO PROJECT 100 Mile House, District of Drinking Water - Chemistry

WORK ORDER REPORTED 0062482
2020-07-02 15:10

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Exeter Reservoir (0062482-02) Matrix: Water Sampled: 2020-06-23 12:20, Continued						
<i>Total Metals, Continued</i>						
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2020-06-29	
Magnesium, total	112	None Required	0.010	mg/L	2020-06-29	
Manganese, total	0.00359	MAC = 0.12	0.00020	mg/L	2020-06-29	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2020-06-29	
Molybdenum, total	0.00869	N/A	0.00010	mg/L	2020-06-29	
Nickel, total	0.00064	N/A	0.00040	mg/L	2020-06-29	
Potassium, total	7.06	N/A	0.10	mg/L	2020-06-29	
Selenium, total	0.00774	MAC = 0.05	0.00050	mg/L	2020-06-29	
Sodium, total	131	AO ≤ 200	0.10	mg/L	2020-06-29	
Strontium, total	0.190	7	0.0010	mg/L	2020-06-29	
Uranium, total	0.00803	MAC = 0.02	0.000020	mg/L	2020-06-29	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2020-06-29	

Sample Qualifiers:

- HT1 The sample was prepared and/or analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

CERTIFICATE OF ANALYSIS

REPORTED TO 100 Mile House, District of
Box 340 -385 Horse Lake Road
100 Mile House, BC V0K 2E0

ATTENTION Paul Donnelly

PO NUMBER Drinking Water

PROJECT Drinking Water - Chemistry

PROJECT INFO

WORK ORDER 0071425

RECEIVED / TEMP 2020-07-15 13:50 / 12°C

REPORTED 2020-07-22 15:26

COC NUMBER No Number

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

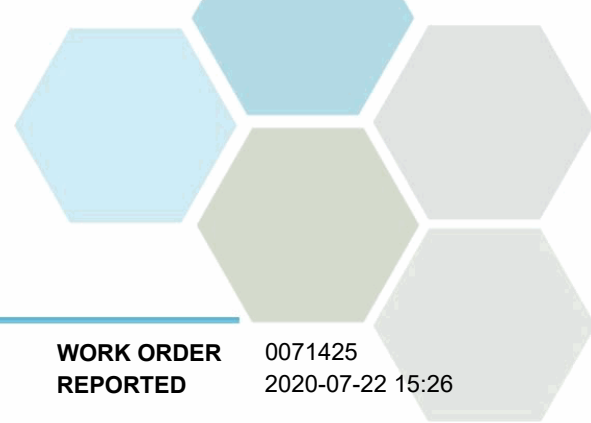
If you have any questions or concerns, please contact me at acrump@caro.ca

Authorized By:

Alana Crump
Team Lead, Client Service

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7



TEST RESULTS

REPORTED TO PROJECT 100 Mile House, District of Drinking Water - Chemistry

WORK ORDER REPORTED 0071425
2020-07-22 15:26

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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WTP (0071425-01) | Matrix: Water | Sampled: 2020-07-14 09:00

Calculated Parameters

Hardness, Total (as CaCO3)	593	None Required	0.500	mg/L		N/A
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Total Metals

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L		2020-07-22
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L		2020-07-22
Arsenic, total	0.00163	MAC = 0.01	0.00050	mg/L		2020-07-22
Barium, total	0.0109	MAC = 2	0.0050	mg/L		2020-07-22
Beryllium, total	< 0.00010	N/A	0.00010	mg/L		2020-07-22
Bismuth, total	< 0.00010	N/A	0.00010	mg/L		2020-07-22
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L		2020-07-22
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L		2020-07-22
Calcium, total	64.9	None Required	0.20	mg/L		2020-07-22
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L		2020-07-22
Cobalt, total	< 0.00010	N/A	0.00010	mg/L		2020-07-22
Copper, total	0.00081	MAC = 2	0.00040	mg/L		2020-07-22
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L		2020-07-22
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L		2020-07-22
Lithium, total	0.00436	N/A	0.00010	mg/L		2020-07-22
Magnesium, total	105	None Required	0.010	mg/L		2020-07-22
Manganese, total	0.00597	MAC = 0.12	0.00020	mg/L		2020-07-22
Molybdenum, total	0.00867	N/A	0.00010	mg/L		2020-07-22
Nickel, total	0.00085	N/A	0.00040	mg/L		2020-07-22
Phosphorus, total	< 0.050	N/A	0.050	mg/L		2020-07-22
Potassium, total	8.12	N/A	0.10	mg/L		2020-07-22
Selenium, total	0.00707	MAC = 0.05	0.00050	mg/L		2020-07-22
Silicon, total	10.7	N/A	1.0	mg/L		2020-07-22
Silver, total	< 0.000050	None Required	0.000050	mg/L		2020-07-22
Sodium, total	113	AO ≤ 200	0.10	mg/L		2020-07-22
Strontium, total	0.206	7	0.0010	mg/L		2020-07-22
Sulfur, total	42.4	N/A	3.0	mg/L		2020-07-22
Tellurium, total	< 0.00050	N/A	0.00050	mg/L		2020-07-22
Thallium, total	< 0.000020	N/A	0.000020	mg/L		2020-07-22
Thorium, total	< 0.00010	N/A	0.00010	mg/L		2020-07-22
Tin, total	< 0.00020	N/A	0.00020	mg/L		2020-07-22
Titanium, total	< 0.0050	N/A	0.0050	mg/L		2020-07-22
Tungsten, total	< 0.0010	N/A	0.0010	mg/L		2020-07-22
Uranium, total	0.00707	MAC = 0.02	0.000020	mg/L		2020-07-22
Vanadium, total	< 0.0010	N/A	0.0010	mg/L		2020-07-22
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L		2020-07-22
Zirconium, total	0.00033	N/A	0.00010	mg/L		2020-07-22