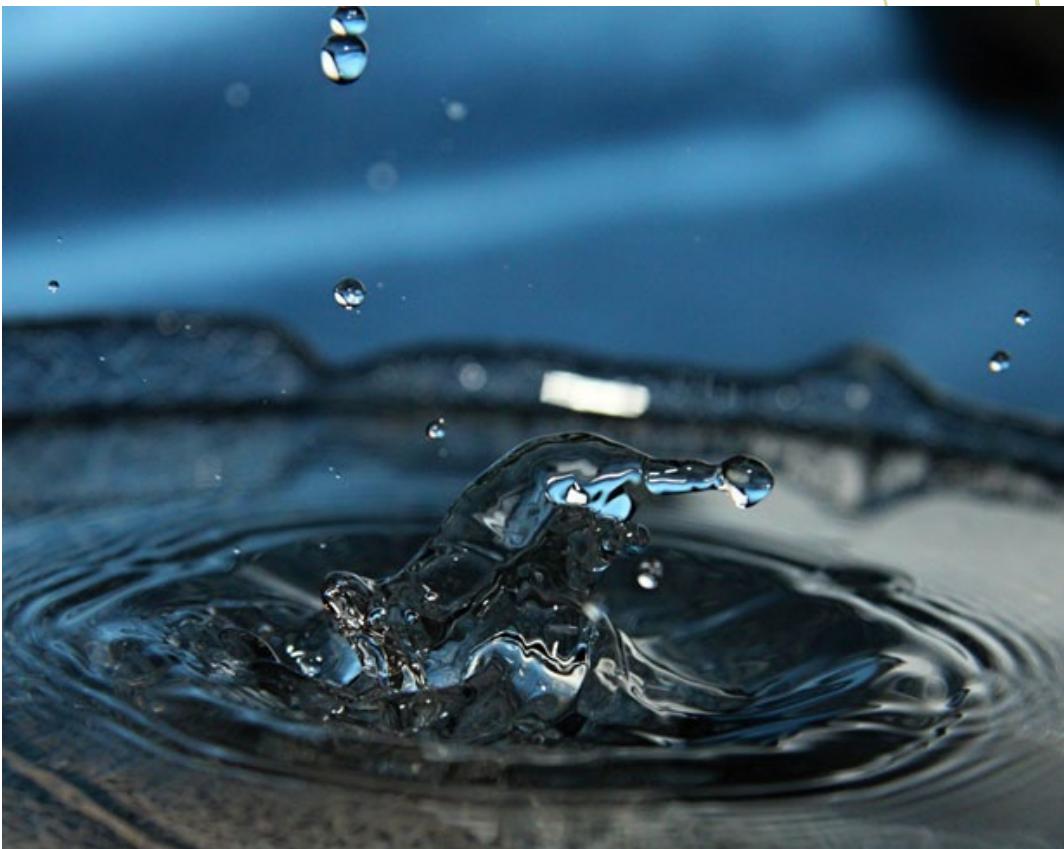


Drinking Water Quality Report

2022



DRINKING WATER QUALITY REPORT 2022

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I.0 EXECUTIVE SUMMARY

The City of Pitt Meadows holds a permit to operate its water utility from the Fraser Health Authority (FHA). In 2022, the city was mainly supplied by the Coquitlam watershed and treated by the Greater Vancouver Water District.

In accordance with the requirements of the *Drinking Water Protection Act* and the *Drinking Water Protection Regulation*, the city's operations department takes weekly water samples from nine stations which are sent to the Greater Vancouver Water District laboratory for testing. Results are returned to the city on a weekly basis as documented in this annual public report.

The *Drinking Water Protection Regulation* establishes requirements for drinking water quality to ensure water quality standards are in compliance, for public safety.

In 2022, the City of Pitt Meadows's water system met all regulatory requirements for drinking water quality as set out by the BC Drinking Water Protection Act. All water quality objectives suggested by Health Canada were also met:

- Five chlorine residual tests fell below the minimum level of 0.2 ppm.
- No samples tested positive for E. coli.
- 100% of the samples had 0 Total Coliform per 100 mL.

In conclusion, the water quality in the City of Pitt Meadows was quite good in 2022

2.0 INTRODUCTIONS

This is the City of Pitt Meadows (PM) annual Drinking Water Quality Report for 2022. It is prepared for the Fraser Health Authority (FHA) as well as public information.

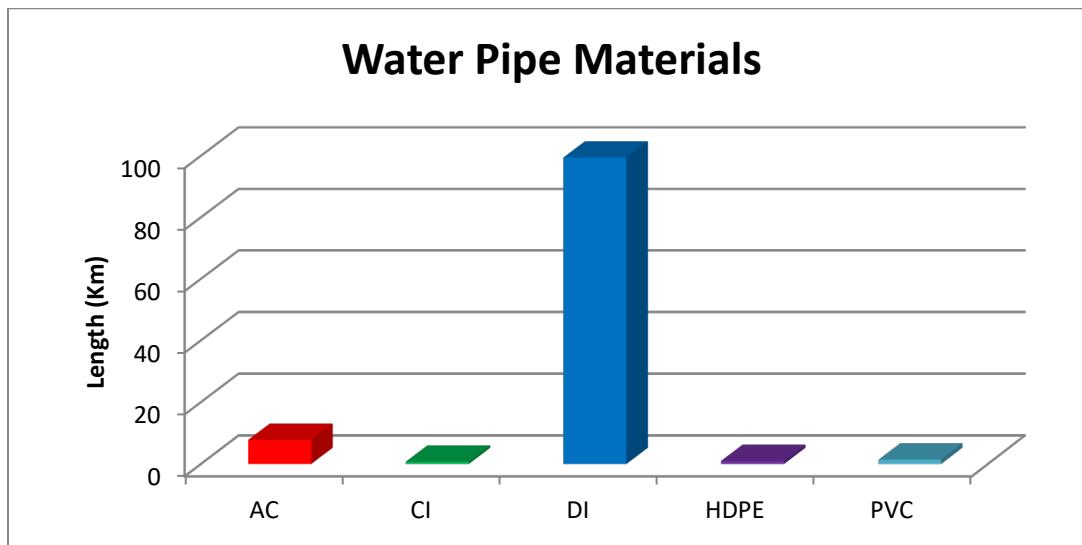
3.0 BACKGROUND

3.1 Regulating Authorities

PM holds a permit to operate its water distribution network from the Fraser Health Authority (FHA) (Appendix 8) and adheres to the provisions of the Local Government Act. Water quality requirements are legislated by the *Drinking Water Protection Act (DWPA)* and *Drinking Water Protection Regulation (DWPR)*. The drinking water officer may also issue orders for non-compliance and or health concerns. The water distribution system has been classified by the EOCP as a Class II System.

3.2 Distribution System

PM's water distribution network is over 111 kilometers long and serves a population of approximately 19,000 residents.



Water Supply

The primary water supply source is the Coquitlam watershed. The Coquitlam source uses Ozone and U.V. as pretreatment and chlorine as a secondary disinfectant. Water supply can also come from Greater Vancouver Water District's other watershed sources (Capilano & Seymour) via the Seymour Capilano Filtration Plant. The water arrives via Haney Mains 2 and 3. Water supplied by both Haney Main 2 and 3 is re-chlorinated at

the Pitt River Re-chlorination Station prior to arriving in the municipal water distribution system.

Maintenance

In a unidirectional fashion, using valve isolation, all water mains were effectively flushed. Dead end lines that are not looped received special attention and some received a second flushing in the fall. Sodium thiosulphate was used to dechlorinate the water being flushed before entering the environment. An automatic flush valve at the end of Rannie Road engages for 2 hours three times every day to ensure the presence of chlorine residual (PMS425). The Rannie Road main was scoured and flushed with mechanical pigging to remove accumulated growth from the pipe wall in 2021.

Unidirectional flushing has been revised further with the aid of computerized modeling and feedback from previous year's program to improve effectiveness.

All City owned backflow devices and assemblies were tested and repaired as required by a certified tester.

All components of the six pressure regulating valve stations and the single booster station were maintained on a regular basis to ensure proper operation. This maintenance included the cleaning of inline and body strainers, function of Cla-val control valves, pressure relief valves, and air valves.

All 485 fire hydrants owned by the City were fully maintained in 2022. The hydrants received a scheduled "A" or "B" service.

The City has 984 mainline and service valves in the distribution system that are exercised and maintained as necessary.

We currently have 5 level II and 2 level I Water Distribution Operators employed to maintain our system.

Repairs and Upgrades

Currently asbestos cement (AC) mains are being replaced by ductile iron mains (DI) on a yearly basis with all AC mains to be decommissioned as soon as possible. The following projects were completed in 2022:

- 743 m of AC Watermain was replaced with Ductile Iron in the 120B – 188A St Area.
- 314 m of AC Watermain was replaced with Ductile Iron on 196A St Area.
- 259 m of AC Watermain was replaced with Ductile Iron in the 117 Ave Area.
- 485 m of AC Watermain was replaced with Ductile Iron in the 116B Ave Area.

4.0 WATER QUALITY SAMPLE SITES

The city has 9 sampling sites that are sampled weekly. Their locations and attributes are listed in table 1 and shown on a map in Appendix 1. All 9 sample sites are tested for physical parameters and 4 are tested for chemical in one distribution zone.

Table 1: Sample Location and Attributes

Sample Site	Location	Main Size (mm)	Normal Flow
DmPMS-421	12188 McMyn Ave	150 DI	Low
DmPMS-422	19817 Wildwood Place	150 DI	Low
DmPMS-423	12476 Wooldridge Road	250 DI	Medium
DmPMS-424	20217 McNeil Road	250 DI	Medium
DmPMS-425	16651 Rannie Road	150 DI	Low
DmPMS-426	13657 McKechnie Road	150 DI	Medium
DmPMS-427	120B Ave Opposite 18993	150 AC	Low
DmPMS-428	100 meters west of Old Dewdney Trunk Rd PRV	300 DI	Source
DmPMS-429	North West corner of Sutton and Bonson	300 DI	Low

Samples are taken every Tuesday morning by the city's Operations Department and are then picked up by or delivered to the Greater Vancouver Water District for testing. The detailed 2021 results are in Appendix 2.

4.1 Bacteriological Monitoring

Samples are analyzed for fecal coliform, total coliform and heterotrophic plate count (HPC). BCDWPR Microbiological Standards are listed in Table 2.

Table 2: BCDWPR Microbiological Standards

Parameter	Occurrence	Standard
Fecal Coliform	0	Less than 1 fecal coliform per 100 mL
Total Coliform	0	0 total coliform per 100 mL At least 90% of samples have 0 total coliform per 100 mL and no sample has more than 10 fecal coliform per 100 mL

Bacteriological Results

There were two samples that tested positive for coliform but a subsequent test at both sites tested negative, suggesting sample contamination. Appendix 4 illustrates the bacteriological requirements were met in 2021.

4.2 Chemical and Physical Monitoring

Monitoring of the City's distribution system is conducted by Greater Vancouver Water District. Samples are screened for temperature, pH and turbidity. Monitoring of the source water and Greater Vancouver Water District transmission system is conducted by the Greater Vancouver Water District Water District (MVWD) and Greater Vancouver Water District.

Temperature of water was generally acceptable, the only times that the water temperature was above the guideline was during the summer months. The excess temperatures range from 16 to 18 degrees Celsius. Temperature of water will affect the efficiency of water treatment processes. Low temperature decreases efficiency of treatment processes and high temperatures enhance the growth of nuisance organisms that could be detected by odor and taste.

Total Haloacetic Acid results account for the by-products of the disinfection process from chlorine break down when it reacts with natural occurring organisms and are within the allowable limits. Source water and Greater Vancouver Water District improvement plans are determined by the MVWD and published in the *MVWD Quality Control Annual Report, 2019*. They are also in Appendix 6 and 7.

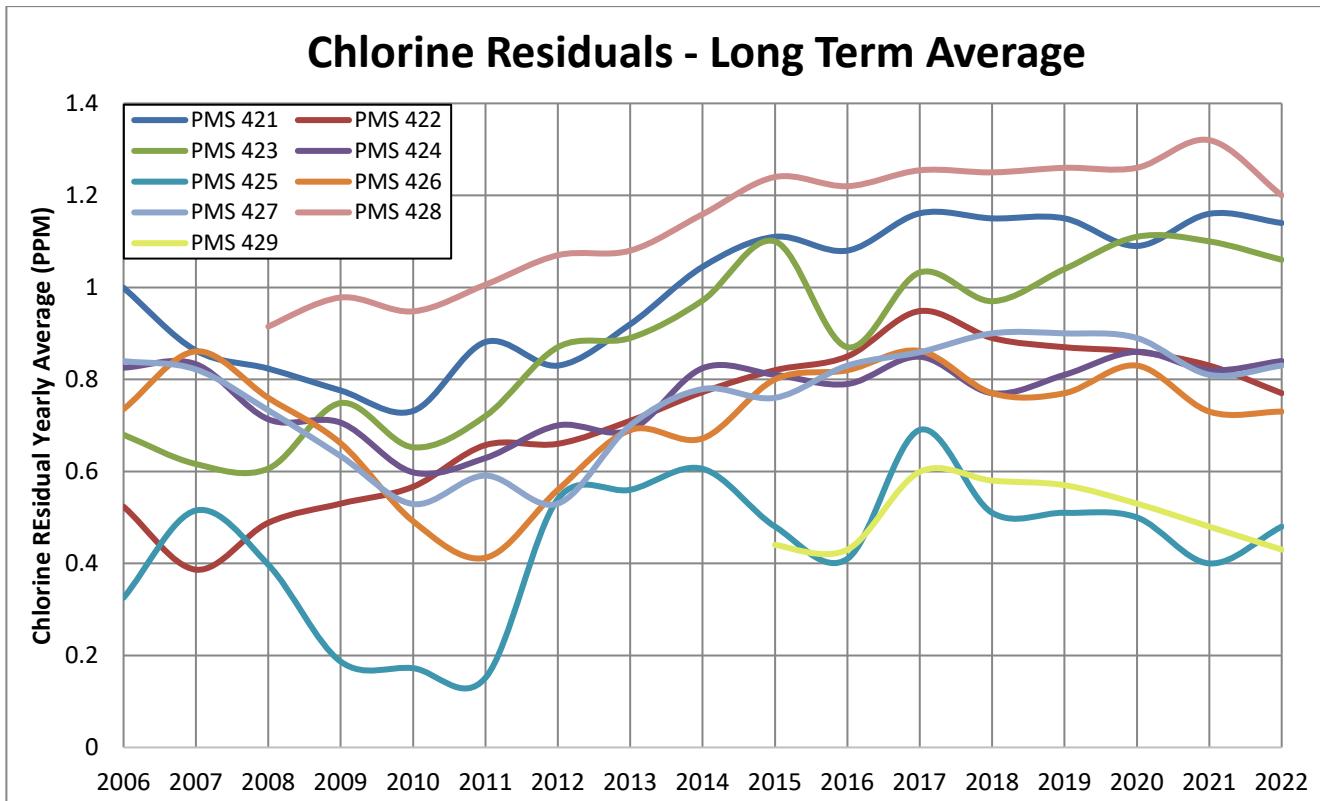
4.3 Chlorine Residual Levels

Table 4: Chlorine Levels at Each Sample Site in 2017

Sample Site	Number of Samples Taken	Number of Samples with <0.2ppm Chlorine Residual	Percent of Samples with <0.2ppm Chlorine Residual
DmPMS-421	51	0	0%
DmPMS-422	52	0	0%
DmPMS-423	52	0	0%
DmPMS-424	52	0	0%
DmPMS-425	52	4	8%
DmPMS-426	52	0	0%
DmPMS-427	51	0	0%
DmPMS-428	52	0	0%
DmPMS-429	52	1	2%

Chlorine Residual Improvement Plan

Chlorine Residuals have improved over the past several years due to significant improvements to our unidirectional flushing program. The following graph illustrates the long term yearly average chlorine residuals in Pitt Meadows.



5.0 EMERGENCY RESPONSE PLAN

The City of Pitt Meadows *Water Response Plan* is a document that contains detailed information for all stakeholders in the event of an emergency related to the City's water distribution system.

The plan has been developed to ensure the safe and effective delivery of water is maintained and lessen the impacts of emergency situations.



6.0 WATER FLUSHING MESSAGE FROM FRASER HEALTH

A public health message from the Fraser Health Authority



Anytime the water in a particular faucet has not been used for six hours or longer, "flush" your cold-water pipes by running the water until you notice a change in temperature. (This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.) The more time water has been sitting in your home's pipes, the more lead it may contain.

Use only water from the cold-tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead.

The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.

Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants.

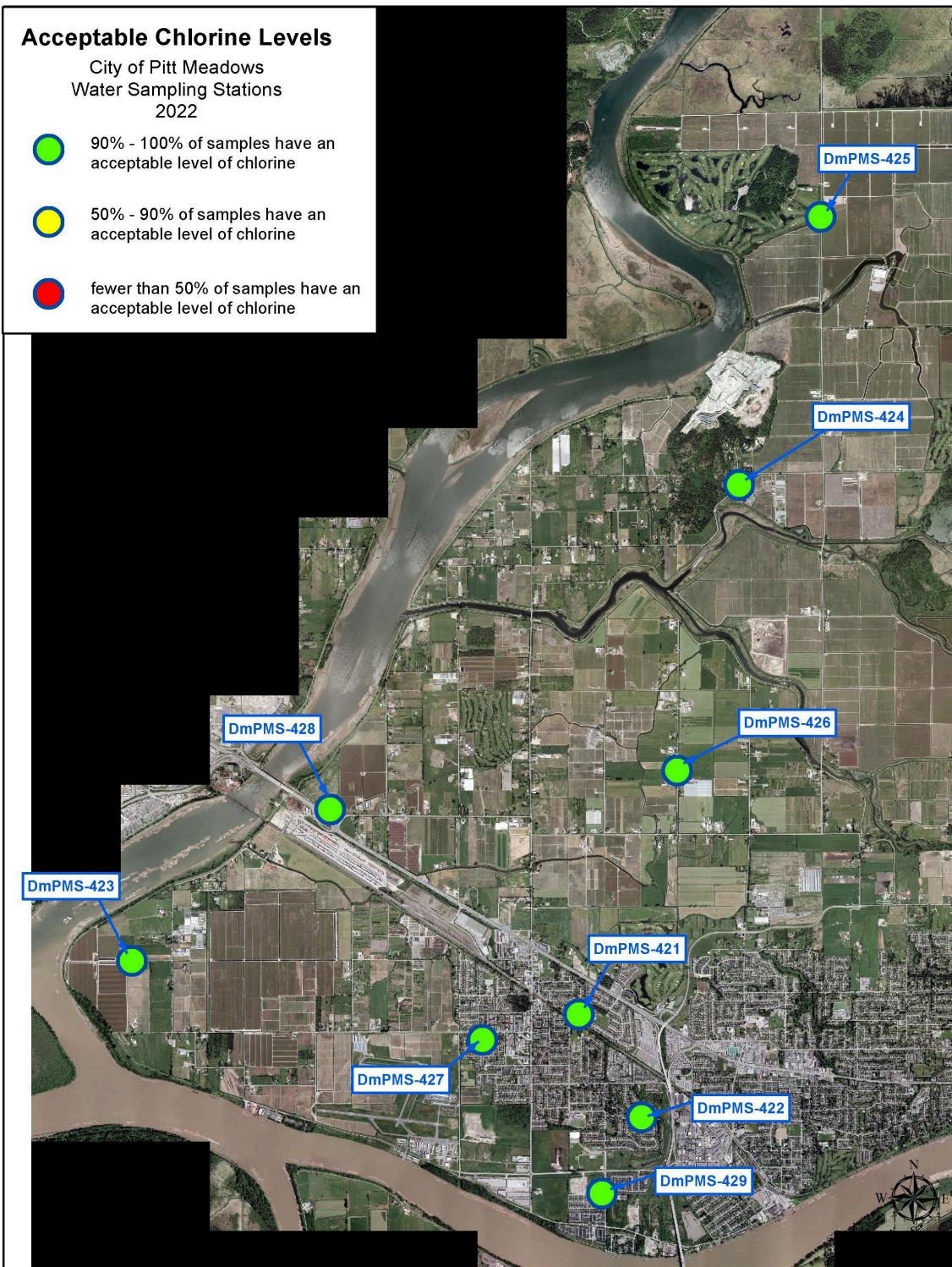
APPENDIX – I

ACCEPTABLE CHLORINE LEVELS AND SAMPLE SITE LOCATIONS

Acceptable Chlorine Levels

City of Pitt Meadows
Water Sampling Stations
2022

- 90% - 100% of samples have an acceptable level of chlorine
- 50% - 90% of samples have an acceptable level of chlorine
- fewer than 50% of samples have an acceptable level of chlorine



APPENDIX – 2

**WEEKLY SAMPLE GREATER VANCOUVER WATER DISTRICT
LAB RESULTS
DMPMS 421 – 429**

PMS-421

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 8:35:00 AM	4	2	<1	<1	0.43	1.21
Jan 11, 2022 9:35:00 AM	4	<2	<1	<1	0.48	1.19
Jan 18, 2022 8:34:00 AM	7	<2	<1	<1	0.39	1.6
Jan 25, 2022 9:05:00 AM	5.5	<2	<1	<1	0.44	1.06
Feb 01, 2022 8:30:00 AM	4	2	<1	<1	0.42	1.12
Feb 08, 2022 8:35:00 AM	6	<2	<1	<1	0.42	1.42
Feb 15, 2022 8:30:00 AM	6	2	<1	<1	0.34	1.25
Feb 22, 2022 9:15:00 AM	6	<2	<1	<1	0.32	1.2
Mar 01, 2022 8:35:00 AM	5	<2	<1	<1	0.87	1.53
Mar 08, 2022 8:41:00 AM	6	<2	<1	<1	0.38	1.28
Mar 15, 2022 8:35:00 AM	7	<2	<1	<1	0.44	1.41
Mar 22, 2022 8:24:00 AM	7	<2	<1	<1	0.37	0.99
Mar 29, 2022 8:10:00 AM	8	<2	<1	<1	0.34	1.16
Apr 05, 2022 8:25:00 AM	7	2	<1	<1	0.36	0.8
Apr 12, 2022 8:35:00 AM	7	<2	<1	<1	14	0.81
Apr 19, 2022 8:35:00 AM	8	2	<1	<1	0.24	0.66
Apr 26, 2022 8:40:00 AM	7	<2	<1	<1	0.28	1.07
May 03, 2022 8:30:00 AM	8	2	<1	<1	0.31	1.18
May 10, 2022 8:24:00 AM	8	<2	<1	<1	0.25	1.18
May 17, 2022 9:00:00 AM	8	<2	<1	<1	0.28	0.88
May 24, 2022 8:48:00 AM	9	<2	<1	<1	0.26	1.16
May 31, 2022 8:55:00 AM	10	<2	<1	<1	0.37	0.97
Jun 07, 2022 9:00:00 AM	10	2	<1	<1	0.28	1.2
Jun 14, 2022 8:45:00 AM	10	4	<1	<1	0.31	1.04
Jun 21, 2022 8:45:00 AM	11	8	<1	<1	0.39	1.29
Jun 28, 2022 8:48:00 AM	11	<2	<1	<1	0.26	1.23
Jul 05, 2022 9:30:00 AM	11	8	<1	<1	0.27	1.32
Jul 12, 2022 8:43:00 AM	12	12	<1	<1	0.26	1.08
Jul 19, 2022 8:38:00 AM	13	4	<1	<1	0.22	1
Jul 26, 2022 8:40:00 AM	12	14	<1	<1	0.4	0.98
Aug 02, 2022 9:00:00 AM	15	12	<1	<1	0.22	1.09
Aug 09, 2022 8:40:00 AM	13	LA	<1	<1	0.23	1.18
Aug 16, 2022 8:40:00 AM	14	6	<1	<1	0.29	1.29

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Aug 23, 2022 8:35:00 AM	15	10	<1	<1	0.3	1.14
Aug 30, 2022 8:15:00 AM	15	18	<1	<1	0.28	1.12
Sep 06, 2022 8:40:00 AM	17	4	<1	<1	0.37	1.35
Sep 13, 2022 11:50:00 AM	17	8	<1	<1	0.27	1.16
Sep 20, 2022 8:45:00 AM	17	4	<1	<1	0.24	1.06
Sep 27, 2022 9:13:00 AM	17	10	<1	<1	0.24	0.97
Oct 04, 2022 8:30:00 AM	17	6	<1	<1	0.32	0.99
Oct 11, 2022 8:50:00 AM	15	4	<1	<1	0.34	1.11
Oct 18, 2022 9:50:00 AM	15	8	<1	<1	0.42	1
Oct 25, 2022 8:50:00 AM	15	4	<1	<1	0.26	0.96
Nov 01, 2022 9:36:00 AM	12	8	<1	<1	0.49	1.32
Nov 08, 2022 9:30:00 AM	11	2	<1	<1	0.36	1.29
Nov 15, 2022 9:10:00 AM	10	8	<1	<1	0.26	0.9
Nov 22, 2022 8:50:00 AM	10	2	<1	<1	0.28	1.01
Nov 29, 2022 9:10:00 AM	8	4	<1	<1	0.25	0.84
Dec 06, 2022 9:07:00 AM	7	<2	<1	<1	0.22	1.3
Dec 13, 2022 8:45:00 AM	7	2	<1	<1	0.19	1.12
Dec 28, 2022 8:53:00 AM	5	NA	<1	<1	1	1.51

PMS-422

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 8:20:00 AM	6	<2	<1	<1	0.47	0.85
Jan 11, 2022 9:20:00 AM	5	<2	<1	<1	0.47	0.86
Jan 18, 2022 8:15:00 AM	7	2	<1	<1	0.48	1.41
Jan 25, 2022 8:35:00 AM	7	4	<1	<1	0.57	0.77
Feb 01, 2022 8:15:00 AM	6	<2	<1	<1	0.41	0.93
Feb 08, 2022 8:12:00 AM	7	6	<1	<1	0.32	1.34
Feb 15, 2022 8:10:00 AM	7	2	<1	<1	0.38	0.97
Feb 22, 2022 9:00:00 AM	7	<2	<1	<1	0.3	0.89
Mar 01, 2022 8:15:00 AM	7	<2	<1	<1	0.44	1.07
Mar 08, 2022 8:09:00 AM	7	<2	<1	<1	0.4	0.96
Mar 15, 2022 8:15:00 AM	8	6	<1	<1	0.33	1.12
Mar 22, 2022 8:08:00 AM	8	<2	<1	<1	0.35	0.66
Mar 29, 2022 8:47:00 AM	9	<2	<1	<1	0.33	0.94

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Apr 05, 2022 8:10:00 AM	9	4	<1	<1	0.27	0.82
Apr 12, 2022 8:15:00 AM	9	<2	<1	<1	2.8	0.62
Apr 19, 2022 8:15:00 AM	9	6	<1	<1	0.24	0.41
Apr 26, 2022 8:15:00 AM	9.5	6	<1	<1	0.24	0.74
May 03, 2022 8:10:00 AM	11	4	<1	<1	0.3	0.62
May 10, 2022 8:07:00 AM	10	2	<1	<1	0.25	0.8
May 17, 2022 8:40:00 AM	11	2	<1	<1	0.27	0.67
May 24, 2022 8:13:00 AM	11	4	<1	<1	0.23	0.74
May 31, 2022 8:35:00 AM	13	14	<1	<1	4.6	0.58
Jun 07, 2022 8:20:00 AM	12	<2	<1	<1	0.21	0.67
Jun 14, 2022 8:15:00 AM	13	<2	<1	<1	0.21	0.63
Jun 21, 2022 8:20:00 AM	14	<2	<1	<1	0.2	0.82
Jun 28, 2022 8:18:00 AM	13	<2	<1	<1	0.28	0.86
Jul 05, 2022 10:20:00 AM	14	<2	<1	<1	0.19	0.53
Jul 12, 2022 8:16:00 AM	13	8	<1	<1	0.26	0.74
Jul 19, 2022 8:10:00 AM	15	2	<1	<1	0.18	0.66
Jul 26, 2022 8:20:00 AM	14	<2	<1	<1	0.99	0.69
Aug 02, 2022 8:17:00 AM	15	<2	<1	<1	0.3	0.94
Aug 09, 2022 8:25:00 AM	16	LA	<1	<1	0.23	0.8
Aug 16, 2022 8:25:00 AM	16	<2	<1	<1	0.22	0.89
Aug 23, 2022 8:15:00 AM	16	<2	<1	<1	0.29	0.79
Aug 30, 2022 7:59:00 AM	16	<2	<1	<1	0.3	0.82
Sep 06, 2022 8:15:00 AM	17	<2	<1	<1	0.3	0.97
Sep 13, 2022 8:15:00 AM	17	<2	<1	<1	0.24	0.66
Sep 20, 2022 8:13:00 AM	17	2	<1	<1	0.26	0.65
Sep 27, 2022 8:23:00 AM	17	<2	<1	<1	0.19	0.5
Oct 04, 2022 8:05:00 AM	17	4	<1	<1	0.21	0.64
Oct 11, 2022 8:20:00 AM	17	2	<1	<1	0.24	0.54
Oct 18, 2022 9:10:00 AM	15	14	<1	<1	0.29	0.52
Oct 25, 2022 8:17:00 AM	15	6	<1	<1	0.31	0.67
Nov 01, 2022 8:03:00 AM	13	<2	<1	<1	0.4	0.49
Nov 08, 2022 9:50:00 AM	12	2	<1	<1	0.31	0.56
Nov 15, 2022 10:20:00 AM	10	<2	<1	<1	0.26	0.67
Nov 22, 2022 8:30:00 AM	10	2	<1	<1	0.26	0.56
Nov 29, 2022 8:50:00 AM	9	18	<1	<1	0.45	0.65

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Dec 06, 2022 8:05:00 AM	7	2	<1	<1	0.22	0.79
Dec 13, 2022 8:17:00 AM	8	2	<1	<1	0.21	0.68
Dec 21, 2022 8:33:00 AM	6	NA	<1	<1	0.2	0.68
Dec 28, 2022 8:13:00 AM	5	NA	<1	<1	0.75	1.02

PMS-423

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 9:25:00 AM	4	<2	<1	<1	0.45	1.09
Jan 11, 2022 10:45:00 AM	4	<2	<1	<1	0.56	1.12
Jan 18, 2022 9:25:00 AM	5	<2	<1	<1	0.43	1.6
Jan 25, 2022 9:45:00 AM	5	<2	<1	<1	0.49	1.07
Feb 01, 2022 9:15:00 AM	4	<2	<1	<1	0.48	1.15
Feb 08, 2022 9:20:00 AM	5	<2	<1	<1	0.41	1.25
Feb 15, 2022 9:05:00 AM	6	<2	<1	<1	0.37	1.19
Feb 22, 2022 9:50:00 AM	5	<2	<1	<1	0.48	1.16
Mar 01, 2022 9:20:00 AM	5	<2	<1	<1	0.83	1.35
Mar 08, 2022 9:13:00 AM	6	<2	<1	<1	0.44	1.09
Mar 15, 2022 9:20:00 AM	6	<2	<1	<1	0.82	1.75
Mar 22, 2022 9:10:00 AM	6	<2	<1	<1	0.42	0.96
Mar 29, 2022 9:45:00 AM	7	<2	<1	<1	0.37	1.13
Apr 05, 2022 9:10:00 AM	8	2	<1	<1	0.34	0.39
Apr 12, 2022 9:25:00 AM	8	<2	<1	<1	0.31	0.4
Apr 19, 2022 9:30:00 AM	8	<2	<1	<1	0.2	0.2
Apr 26, 2022 9:25:00 AM	8	<2	<1	<1	0.3	0.93
May 03, 2022 9:25:00 AM	8	<2	<1	<1	0.37	1.18
May 10, 2022 9:37:00 AM	7	<2	<1	<1	0.26	1.04
May 17, 2022 9:30:00 AM	9	<2	<1	<1	0.27	0.91
May 24, 2022 9:20:00 AM	9	<2	<1	<1	0.28	1.03
May 31, 2022 9:40:00 AM	9	<2	<1	<1	0.26	0.98
Jun 07, 2022 9:40:00 AM	9	<2	<1	<1	0.27	1.06
Jun 14, 2022 9:25:00 AM	10	<2	<1	<1	0.26	0.98
Jun 21, 2022 9:40:00 AM	10	<2	<1	<1	0.53	1.24
Jun 28, 2022 9:30:00 AM	10	<2	<1	<1	0.23	1.17
Jul 05, 2022 8:20:00 AM	10	<2	<1	<1	0.29	1.05

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jul 12, 2022 9:26:00 AM	12	<2	<1	<1	0.28	1.09
Jul 19, 2022 9:12:00 AM	12	<2	<1	<1	0.17	0.94
Jul 26, 2022 9:25:00 AM	12	2	<1	<1	0.37	0.92
Aug 02, 2022 9:17:00 AM	14	<2	<1	<1	0.28	1.13
Aug 09, 2022 9:30:00 AM	13	LA	<1	<1	0.2	0.97
Aug 16, 2022 9:30:00 AM	14	<2	<1	<1	0.22	1.09
Aug 23, 2022 9:25:00 AM	15	<2	<1	<1	0.29	1.1
Aug 30, 2022 8:40:00 AM	15	<2	<1	<1	0.38	1.02
Sep 06, 2022 9:40:00 AM	16	<2	<1	<1	0.3	1.25
Sep 13, 2022 9:22:00 AM	16	2	<1	<1	0.21	1
Sep 20, 2022 9:10:00 AM	17	<2	<1	<1	0.25	0.99
Sep 27, 2022 9:31:00 AM	16	<2	<1	<1	0.23	0.86
Oct 04, 2022 9:30:00 AM	16	<2	<1	<1	0.22	0.91
Oct 11, 2022 9:14:00 AM	15	<2	<1	<1	0.3	1.03
Oct 18, 2022 10:30:00 AM	14	<2	<1	<1	0.4	1.07
Oct 25, 2022 9:40:00 AM	14	<2	<1	<1	0.36	1.03
Nov 01, 2022 8:54:00 AM	12	<2	<1	<1	0.49	1.33
Nov 08, 2022 8:15:00 AM	10	<2	<1	<1	0.35	1.11
Nov 15, 2022 8:15:00 AM	10	<2	<1	<1	0.32	1.16
Nov 22, 2022 9:45:00 AM	9	<2	<1	<1	0.32	1.06
Nov 29, 2022 9:45:00 AM	7	<2	<1	<1	0.29	1.01
Dec 06, 2022 8:41:00 AM	7	<2	<1	<1	0.23	1.02
Dec 13, 2022 9:40:00 AM	7	<2	<1	<1	0.22	1.06
Dec 21, 2022 10:30:00 AM	4	NA	<1	<1	0.24	1.08
Dec 28, 2022 9:11:00 AM	5	NA	<1	<1	0.82	1.41

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Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 11:05:00 AM	5	<2	<1	<1	0.39	1
Jan 11, 2022 12:10:00 PM	5	<2	<1	<1	0.56	1.19
Jan 18, 2022 11:25:00 AM	7	<2	<1	<1	0.57	1.39
Jan 25, 2022 11:20:00 AM	6	<2	<1	<1	0.4	0.87
Feb 01, 2022 10:35:00 AM	6	<2	<1	<1	0.46	1
Feb 08, 2022 11:10:00 AM	5	<2	<1	<1	0.38	1.25
Feb 15, 2022 10:45:00 AM	6	<2	<1	<1	0.37	1.01
Feb 22, 2022 11:30:00 AM	6	<2	<1	<1	0.33	0.92
Mar 01, 2022 11:00:00 AM	6	<2	<1	<1	0.5	0.94
Mar 08, 2022 11:13:00 AM	6	<2	<1	<1	0.68	0.97
Mar 15, 2022 11:10:00 AM	6	<2	<1	<1	0.69	1.22
Mar 22, 2022 11:01:00 AM	6	<2	<1	<1	0.34	0.75
Mar 29, 2022 11:20:00 AM	7	<2	<1	<1	0.32	1.01
Apr 05, 2022 11:00:00 AM	7	<2	<1	<1	0.28	0.93
Apr 12, 2022 11:00:00 AM	7	<2	<1	<1	0.26	0.85
Apr 19, 2022 10:40:00 AM	8	<2	<1	<1	0.23	0.69
Apr 26, 2022 11:25:00 AM	7	2	<1	<1	0.21	0.86
May 03, 2022 11:25:00 AM	8	<2	<1	<1	0.24	0.86
May 10, 2022 11:27:00 AM	8	2	<1	<1	0.2	0.93
May 17, 2022 11:10:00 AM	9	8	<1	<1	0.25	0.61
May 24, 2022 11:54:00 AM	10	2	<1	<1	0.22	0.78
May 31, 2022 11:35:00 AM	10	2	<1	<1	0.23	0.71
Jun 07, 2022 11:25:00 AM	10	2	<1	<1	0.23	0.69
Jun 14, 2022 11:05:00 AM	10	<2	<1	<1	0.2	0.65
Jun 21, 2022 11:10:00 AM	12	30	<1	<1	0.18	0.95
Jun 28, 2022 11:43:00 AM	12	2	<1	<1	0.26	0.84
Jul 05, 2022 11:15:00 AM	13	<2	<1	<1	0.2	0.67
Jul 12, 2022 11:16:00 AM	13	<2	<1	<1	0.25	0.63
Jul 19, 2022 11:02:00 AM	13	2	<1	<1	0.18	0.61
Jul 26, 2022 11:35:00 AM	13	<2	<1	<1	0.32	0.78
Aug 02, 2022 11:28:00 AM	14	<2	<1	<1	0.27	0.97
Aug 09, 2022 11:15:00 AM	14	<2	<1	<1	0.18	1.56

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Aug 16, 2022 11:05:00 AM	14	<2	<1	<1	0.23	1.05
Aug 23, 2022 11:40:00 AM	15	<2	<1	<1	0.21	0.99
Aug 30, 2022 11:45:00 AM	16	2	<1	<1	0.2	0.79
Sep 06, 2022 11:35:00 AM	16	<2	<1	<1	0.21	0.82
Sep 13, 2022 11:07:00 AM	16	<2	<1	<1	0.24	0.76
Sep 20, 2022 11:10:00 AM	17	<2	<1	<1	0.2	0.57
Sep 27, 2022 11:40:00 AM	17	10	<1	<1	0.18	0.67
Oct 04, 2022 11:20:00 AM	17	4	<1	<1	0.31	0.66
Oct 11, 2022 11:21:00 AM	16	6	<1	<1	0.25	0.47
Oct 18, 2022 11:35:00 AM	15	<2	<1	<1	0.34	0.49
Oct 25, 2022 10:55:00 AM	15	<2	<1	<1	0.26	0.66
Nov 01, 2022 11:32:00 AM	13	6	<1	<1	0.38	0.59
Nov 08, 2022 11:35:00 AM	11	<2	<1	<1	0.42	0.72
Nov 15, 2022 11:30:00 AM	10	<2	<1	<1	0.28	1.01
Nov 22, 2022 11:25:00 AM	10	<2	<1	<1	0.29	0.66
Nov 29, 2022 11:25:00 AM	9	<2	<1	<1	0.27	0.58
Dec 06, 2022 12:10:00 PM	8	<2	<1	<1	0.23	0.62
Dec 13, 2022 11:27:00 AM	8	2	<1	<1	0.18	0.57
Dec 21, 2022 11:35:00 AM	6	NA	<1	<1	0.21	0.63
Dec 28, 2022 11:50:00 AM	5	NA	<1	<1	0.69	1.03

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Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 10:50:00 AM	6	<2	<1	<1	0.39	0.91
Jan 11, 2022 11:50:00 AM	5	<2	<1	<1	0.47	0.95
Jan 18, 2022 11:00:00 AM	7	<2	<1	<1	0.54	1.24
Jan 25, 2022 11:00:00 AM	6	<2	<1	<1	0.48	0.81
Feb 01, 2022 10:25:00 AM	6	<2	<1	<1	0.48	0.7
Feb 08, 2022 10:45:00 AM	6	2	<1	<1	0.35	0.99
Feb 15, 2022 10:20:00 AM	7	2	<1	<1	0.42	0.82
Feb 22, 2022 11:00:00 AM	7	<2	<1	<1	0.55	0.61
Mar 01, 2022 10:40:00 AM	6	<2	<1	<1	0.42	0.82
Mar 08, 2022 10:57:00 AM	7	<2	<1	<1	0.41	0.69
Mar 15, 2022 10:45:00 AM	7	<2	<1	<1	0.3	0.92

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Mar 22, 2022 10:46:00 AM	7	<2	<1	<1	0.38	0.6
Mar 29, 2022 11:05:00 AM	8	<2	<1	<1	0.31	0.83
Apr 05, 2022 10:45:00 AM	7	2	<1	<1	0.32	0.68
Apr 12, 2022 10:40:00 AM	8	<2	<1	<1	0.34	0.53
Apr 19, 2022 10:25:00 AM	8	<2	<1	<1	0.25	0.49
Apr 26, 2022 11:00:00 AM	8	2	<1	<1	0.28	0.58
May 03, 2022 11:05:00 AM	9	<2	<1	<1	0.27	0.72
May 10, 2022 11:15:00 AM	8	<2	<1	<1	0.21	0.46
May 17, 2022 10:45:00 AM	10	<2	<1	<1	0.27	0.32
May 24, 2022 11:30:00 AM	10	<2	<1	<1	0.23	0.36
May 31, 2022 11:15:00 AM	11	4	<1	<1	0.26	0.34
Jun 07, 2022 11:10:00 AM	12	2	<1	<1	0.27	0.3
Jun 14, 2022 10:50:00 AM	11	2	<1	<1	0.22	0.21
Jun 21, 2022 10:50:00 AM	13	<2	<1	<1	0.28	0.42
Jun 28, 2022 11:00:00 AM	13	<2	<1	<1	0.26	0.25
Jul 05, 2022 10:50:00 AM	14	<2	<1	<1	0.24	0.3
Jul 12, 2022 10:35:00 AM	14	2	<1	<1	0.26	0.15
Jul 19, 2022 11:24:00 AM	15	2	<1	<1	0.19	0.14
Jul 26, 2022 11:20:00 AM	15	2	<1	<1	0.24	0.35
Aug 02, 2022 11:12:00 AM	15	<2	<1	<1	0.19	0.49
Aug 09, 2022 11:00:00 AM	16	4	<1	<1	0.17	0.36
Aug 16, 2022 10:50:00 AM	17	2	<1	<1	0.18	0.58
Aug 23, 2022 11:25:00 AM	17	<2	<1	<1	0.24	0.43
Aug 30, 2022 10:58:00 AM	17	2	<1	<1	0.23	0.25
Sep 06, 2022 11:20:00 AM	18	<2	<1	<1	0.26	0.26
Sep 13, 2022 11:20:00 AM	18	<2	<1	<1	0.26	0.28
Sep 20, 2022 11:20:00 AM	18	2	<1	<1	0.25	0.23
Sep 27, 2022 11:51:00 AM	18	<2	<1	<1	0.21	0.42
Oct 04, 2022 11:05:00 AM	17	4	<1	<1	0.22	0.36
Oct 11, 2022 11:08:00 AM	17	<2	<1	<1	0.23	0.2
Oct 18, 2022 11:20:00 AM	16	6	<1	<1	0.32	0.2
Oct 25, 2022 10:40:00 AM	15	4	<1	<1	0.27	0.32
Nov 01, 2022 11:00:00 AM	14	<2	<1	<1	0.45	0.18
Nov 08, 2022 11:20:00 AM	12	<2	<1	<1	0.69	0.15
Nov 15, 2022 11:05:00 AM	12	<2	<1	<1	0.25	0.38

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Nov 22, 2022 11:15:00 AM	11	<2	<1	<1	0.26	0.25
Nov 29, 2022 11:10:00 AM	9	52	<1	<1	0.26	0.22
Dec 06, 2022 11:39:00 AM	9	<2	<1	<1	0.21	0.3
Dec 13, 2022 11:00:00 AM	9	<2	<1	<1	0.21	0.26
Dec 21, 2022 11:25:00 AM	7	NA	<1	<1	0.19	0.31
Dec 28, 2022 11:11:00 AM	6	NA	<1	<1	0.79	0.75

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Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 10:30:00 AM	5	<2	<1	<1	0.44	0.98
Jan 11, 2022 11:25:00 AM	5	<2	<1	<1	0.59	1
Jan 18, 2022 10:40:00 AM	6	<2	<1	<1	0.43	1.5
Jan 25, 2022 10:35:00 AM	6	<2	<1	<1	0.41	0.82
Feb 01, 2022 10:05:00 AM	5	<2	<1	<1	0.54	0.92
Feb 08, 2022 10:25:00 AM	6	2	<1	<1	0.45	1.16
Feb 15, 2022 10:00:00 AM	6	<2	<1	<1	0.35	1.08
Feb 22, 2022 10:35:00 AM	7	<2	<1	<1	2	0.7
Mar 01, 2022 10:20:00 AM	6	<2	<1	<1	0.88	1.1
Mar 08, 2022 10:32:00 AM	7	<2	<1	<1	1	1.05
Mar 15, 2022 10:25:00 AM	6	2	<1	<1	0.7	1.42
Mar 22, 2022 10:28:00 AM	7	<2	<1	<1	0.5	0.91
Mar 29, 2022 10:42:00 AM	8	2	<1	<1	0.4	1.03
Apr 05, 2022 10:25:00 AM	9	<2	<1	<1	0.4	0.59
Apr 12, 2022 10:00:00 AM	8	<2	<1	<1	0.3	0.79
Apr 19, 2022 11:00:00 AM	9	<2	<1	<1	0.35	0.72
Apr 26, 2022 10:45:00 AM	9	<2	<1	<1	0.28	0.71
May 03, 2022 10:35:00 AM	9	<2	<1	<1	0.47	1.06
May 10, 2022 10:53:00 AM	9	2	<1	<1	0.28	0.82
May 17, 2022 10:25:00 AM	11	4	<1	<1	0.3	0.41
May 24, 2022 11:03:00 AM	10	<2	<1	<1	0.23	0.69
May 31, 2022 10:40:00 AM	11	<2	<1	<1	0.23	0.43
Jun 07, 2022 10:45:00 AM	13	<2	<1	<1	0.26	0.22
Jun 14, 2022 10:25:00 AM	12	2	<1	<1	0.29	0.26
Jun 21, 2022 10:25:00 AM	13	<2	<1	<1	0.22	0.76

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jun 28, 2022 10:30:00 AM	13	<2	<1	<1	0.27	0.61
Jul 05, 2022 10:35:00 AM	15	2	<1	<1	0.26	0.2
Jul 12, 2022 10:15:00 AM	14	6	<1	<1	0.57	0.38
Jul 19, 2022 10:43:00 AM	15	<2	<1	<1	0.23	0.49
Jul 26, 2022 11:05:00 AM	15	LA	<1	<1	0.47	0.85
Aug 02, 2022 10:55:00 AM	15	<2	<1	<1	0.3	1.07
Aug 09, 2022 10:40:00 AM	15	LA	<1	<1	0.2	0.95
Aug 16, 2022 11:20:00 AM	17	<2	<1	<1	0.3	0.56
Aug 23, 2022 10:55:00 AM	17	2	<1	<1	0.27	0.67
Aug 30, 2022 10:37:00 AM	17	2	<1	<1	0.38	0.62
Sep 06, 2022 10:45:00 AM	18	2	<1	<1	0.35	0.33
Sep 13, 2022 10:50:00 AM	18	2	<1	<1	0.44	0.7
Sep 20, 2022 10:51:00 AM	18	4	<1	<1	0.69	0.55
Sep 27, 2022 11:21:00 AM	18	6	<1	<1	0.21	0.2
Oct 04, 2022 10:40:00 AM	17	6	<1	<1	0.22	0.75
Oct 11, 2022 10:50:00 AM	17	<2	<1	<1	0.36	0.6
Oct 18, 2022 11:00:00 AM	17	12	<1	<1	0.34	0.24
Oct 25, 2022 10:20:00 AM	15	2	<1	<1	0.26	0.76
Nov 01, 2022 11:52:00 AM	14	<2	<1	<1	0.33	0.74
Nov 08, 2022 10:30:00 AM	12	<2	<1	<1	0.31	0.76
Nov 15, 2022 10:50:00 AM	11	2	<1	<1	0.29	0.85
Nov 22, 2022 10:50:00 AM	11	38	<1	<1	0.79	0.54
Nov 29, 2022 10:30:00 AM	9	4	<1	<1	0.22	0.55
Dec 06, 2022 11:14:00 AM	9	<2	<1	<1	0.2	0.66
Dec 13, 2022 10:37:00 AM	8	LA	<1	<1	0.3	0.63
Dec 21, 2022 11:05:00 AM	6	NA	<1	<1	0.2	0.67
Dec 28, 2022 11:31:00 AM	6	NA	<1	<1	0.76	0.82

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Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 9:05:00 AM	5	<2	<1	<1	0.46	1.02
Jan 11, 2022 9:50:00 AM	4	<2	<1	<1	0.58	1.04
Jan 18, 2022 9:05:00 AM	6	<2	<1	<1	0.49	1.41
Jan 25, 2022 8:55:00 AM	5.5	<2	<1	<1	0.44	0.85
Feb 01, 2022 8:55:00 AM	5	<2	<1	<1	0.45	0.93
Feb 08, 2022 8:46:00 AM	7	<2	<1	<1	0.41	1.36
Feb 15, 2022 8:45:00 AM	6	2	<1	<1	0.45	1.05
Feb 22, 2022 9:30:00 AM	6	2	<1	<1	0.3	0.91
Mar 01, 2022 9:00:00 AM	6	<2	<1	<1	0.44	0.86
Mar 08, 2022 8:55:00 AM	7	<2	<1	<1	0.4	1.04
Mar 15, 2022 9:00:00 AM	8	<2	<1	<1	0.35	1.25
Mar 22, 2022 8:56:00 AM	7	<2	<1	<1	0.38	0.65
Mar 29, 2022 9:22:00 AM	9	<2	<1	<1	0.31	0.98
Apr 05, 2022 8:50:00 AM	8	<2	<1	<1	0.28	0.84
Apr 12, 2022 9:05:00 AM	7	<2	<1	<1	2.3	0.68
Apr 19, 2022 9:10:00 AM	8	<2	<1	<1	0.22	0.55
Apr 26, 2022 9:05:00 AM	8	<2	<1	<1	0.23	0.88
May 03, 2022 9:03:00 AM	9	<2	<1	<1	0.27	0.91
May 10, 2022 8:40:00 AM	8	<2	<1	<1	0.22	0.93
May 17, 2022 9:15:00 AM	9	2	<1	<1	0.3	0.76
May 24, 2022 8:28:00 AM	10	2	<1	<1	0.24	0.9
May 31, 2022 9:25:00 AM	11	<2	<1	<1	0.41	0.86
Jun 07, 2022 9:25:00 AM	10	6	<1	<1	3.8	0.97
Jun 14, 2022 9:05:00 AM	10	<2	<1	<1	0.29	0.71
Jun 21, 2022 9:15:00 AM	12	<2	<1	<1	0.19	0.91
Jun 28, 2022 8:34:00 AM	12	<2	<1	<1	0.5	0.88
Jul 05, 2022 9:10:00 AM	13	<2	<1	<1	0.2	0.81
Jul 12, 2022 8:27:00 AM	12	2	<1	<1	0.29	0.9
Jul 19, 2022 8:21:00 AM	13	290	<1	<1	0.19	0.8
Jul 26, 2022 9:00:00 AM	12	4	<1	<1	0.23	0.6
Aug 02, 2022 8:31:00 AM	14	<2	<1	<1	0.22	1.35
Aug 09, 2022 9:10:00 AM	14	8	<1	<1	0.22	0.74
Aug 16, 2022 9:10:00 AM	14	<2	<1	<1	0.21	1.05

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Aug 23, 2022 9:05:00 AM	15	<2	<1	<1	0.29	0.92
Aug 30, 2022 8:25:00 AM	15	4	<1	<1	0.31	0.87
Sep 06, 2022 9:10:00 AM	17	<2	<1	<1	0.21	0.83
Sep 13, 2022 8:30:00 AM	16	10	<1	<1	0.31	0.82
Sep 20, 2022 8:30:00 AM	17	<2	<1	<1	0.25	0.29
Sep 27, 2022 8:40:00 AM	17	8	<1	<1	0.2	0.58
Oct 04, 2022 9:00:00 AM	16	2	<1	<1	0.26	0.89
Oct 11, 2022 8:32:00 AM	16	<2	<1	<1	0.26	0.43
Oct 18, 2022 9:25:00 AM	15	6	<1	<1	0.32	0.79
Oct 25, 2022 9:15:00 AM	14	6	<1	<1	0.23	0.44
Nov 01, 2022 8:15:00 AM	13	2	<1	<1	0.44	0.51
Nov 08, 2022 9:00:00 AM	11	14	<1	<1	0.72	0.39
Nov 15, 2022 9:30:00 AM	10	2	<1	<1	0.33	0.68
Nov 22, 2022 9:15:00 AM	10	2	<1	<1	0.27	0.42
Nov 29, 2022 9:30:00 AM	8	4	<1	<1	0.33	0.4
Dec 06, 2022 8:27:00 AM	8	2	<1	<1	0.19	0.89
Dec 13, 2022 9:18:00 AM	8	<2	<1	<1	0.28	0.87
Dec 28, 2022 8:23:00 AM	6	NA	<1	<1	0.69	0.76

PMS-428

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 11:25:00 AM	4	<2	<1	<1	0.45	1.21
Jan 11, 2022 11:05:00 AM	4	<2	<1	<1	0.61	1.36
Jan 18, 2022 10:20:00 AM	5	<2	<1	<1	0.42	1.69
Jan 25, 2022 9:25:00 AM	5	<2	<1	<1	0.42	1.15
Feb 01, 2022 11:10:00 AM	5	<2	<1	<1	0.55	1.2
Feb 08, 2022 9:42:00 AM	5	2	<1	<1	0.44	1.18
Feb 15, 2022 11:30:00 AM	6	<2	<1	<1	0.3	1.07
Feb 22, 2022 11:55:00 AM	5	<2	<1	<1	0.36	0.99
Mar 01, 2022 11:25:00 AM	5	<2	<1	<1	0.89	1.56
Mar 08, 2022 9:28:00 AM	6	<2	<1	<1	0.45	1.44
Mar 15, 2022 9:45:00 AM	6	<2	<1	<1	0.7	1.65
Mar 22, 2022 10:10:00 AM	6	<2	<1	<1	0.46	1.15
Mar 29, 2022 10:25:00 AM	6	<2	<1	<1	0.38	1.33

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Apr 05, 2022 11:20:00 AM	6	<2	<1	<1	0.36	1.1
Apr 12, 2022 11:15:00 AM	7	<2	<1	<1	0.32	1.12
Apr 19, 2022 11:20:00 AM	7	<2	<1	<1	0.34	1.06
Apr 26, 2022 10:25:00 AM	6	<2	<1	<1	0.29	1.14
May 03, 2022 10:15:00 AM	7	2	<1	<1	0.42	1.32
May 10, 2022 10:34:00 AM	6	<2	<1	<1	0.27	1.15
May 17, 2022 11:35:00 AM	7	<2	<1	<1	0.3	0.82
May 24, 2022 10:40:00 AM	9	<2	<1	<1	0.26	1.16
May 31, 2022 11:50:00 AM	9	<2	<1	<1	0.31	1.08
Jun 07, 2022 11:45:00 AM	9	2	<1	<1	0.33	0.89
Jun 14, 2022 11:35:00 AM	9	<2	<1	<1	0.27	1.02
Jun 21, 2022 9:55:00 AM	9	<2	<1	<1	0.37	1.38
Jun 28, 2022 10:07:00 AM	10	<2	<1	<1	0.24	1.21
Jul 05, 2022 8:38:00 AM	10	<2	<1	<1	0.22	1.01
Jul 12, 2022 9:48:00 AM	11	<2	<1	<1	0.22	1.03
Jul 19, 2022 9:36:00 AM	12	8	<1	<1	0.21	1.25
Jul 26, 2022 10:45:00 AM	10	<2	<1	<1	0.32	1.05
Aug 02, 2022 9:30:00 AM	13	<2	<1	<1	0.23	1.25
Aug 09, 2022 11:45:00 AM	12	<2	<1	<1	0.29	0.89
Aug 16, 2022 11:45:00 AM	16	<2	<1	<1	0.22	1.23
Aug 23, 2022 12:05:00 PM	14	<2	<1	<1	0.28	1.19
Aug 30, 2022 8:55:00 AM	15	<2	<1	<1	0.26	1.23
Sep 06, 2022 11:50:00 AM	16	<2	<1	<1	0.32	1.09
Sep 13, 2022 10:36:00 AM	16	2	<1	<1	0.31	1.15
Sep 20, 2022 10:35:00 AM	16	<2	<1	<1	0.35	1.21
Sep 27, 2022 11:00:00 AM	17	<2	<1	<1	0.21	1.14
Oct 04, 2022 11:45:00 AM	17	<2	<1	<1	0.28	1.2
Oct 11, 2022 11:40:00 AM	17	<2	<1	<1	0.38	1.03
Oct 18, 2022 10:50:00 AM	14	<2	<1	<1	0.32	1.13
Oct 25, 2022 11:20:00 AM	14	<2	<1	<1	0.37	1.19
Nov 01, 2022 9:13:00 AM	12	<2	<1	<1	0.66	1.27
Nov 08, 2022 8:30:00 AM	9	<2	<1	<1	0.4	1.36
Nov 15, 2022 8:39:00 AM	9	<2	<1	<1	0.34	1.24
Nov 22, 2022 11:50:00 AM	9	<2	<1	<1	0.3	1.27
Nov 29, 2022 12:05:00 PM	8	<2	<1	<1	0.3	1.28

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Dec 06, 2022 10:57:00 AM	7	<2	<1	<1	0.24	1.16
Dec 13, 2022 11:47:00 AM	8	<2	<1	<1	0.23	1.14
Dec 21, 2022 10:50:00 AM	5	NA	<1	<1	0.37	1.24
Dec 28, 2022 10:49:00 AM	5	NA	<1	<1	1.1	1.54

PMS-429

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jan 04, 2022 8:00:00 AM	6	<2	<1	<1	0.3	0.26
Jan 11, 2022 9:00:00 AM	5.5	2	<1	<1	0.59	0.64
Jan 18, 2022 8:00:00 AM	7	<2	<1	<1	0.43	1.01
Jan 25, 2022 8:15:00 AM	6.5	<2	<1	<1	0.38	0.64
Feb 01, 2022 8:00:00 AM	6	4	<1	<1	0.35	0.61
Feb 08, 2022 7:50:00 AM	7	<2	<1	<1	0.34	0.83
Feb 15, 2022 8:00:00 AM	7	2	<1	<1	0.32	0.63
Feb 22, 2022 9:50:00 AM	7	2	<1	<1	0.29	0.54
Mar 01, 2022 8:00:00 AM	7	<2	<1	<1	0.28	0.75
Mar 08, 2022 7:51:00 AM	7	<2	<1	<1	0.53	0.45
Mar 15, 2022 7:55:00 AM	8	<2	<1	<1	0.29	0.6
Mar 22, 2022 7:53:00 AM	8	2	<1	<1	0.32	0.57
Mar 29, 2022 8:33:00 AM	9	<2	<1	<1	0.41	0.53
Apr 05, 2022 7:55:00 AM	9	<2	<1	<1	0.27	0.46
Apr 12, 2022 7:55:00 AM	9	<2	<1	<1	0.24	0.31
Apr 19, 2022 7:55:00 AM	10	<2	<1	<1	0.22	0.27
Apr 26, 2022 8:00:00 AM	10	<2	<1	<1	0.21	0.3
May 03, 2022 7:55:00 AM	11	<2	<1	<1	0.23	0.32
May 10, 2022 7:51:00 AM	10	10	<1	<1	0.25	0.41
May 17, 2022 8:25:00 AM	10	6	<1	<1	0.24	0.44
May 24, 2022 7:58:00 AM	10	<2	<1	<1	0.24	0.48
May 31, 2022 8:05:00 AM	11	4	<1	<1	0.24	0.4
Jun 07, 2022 8:00:00 AM	12	<2	<1	<1	0.27	0.34
Jun 14, 2022 8:00:00 AM	13	4	<1	<1	0.29	0.31
Jun 21, 2022 8:05:00 AM	13	<2	<1	<1	0.18	0.49
Jun 28, 2022 8:02:00 AM	13	2	<1	<1	0.29	0.47
Jul 05, 2022 7:55:00 AM	13	8	<1	<1	0.19	0.37

Sampled date	Chlorine Free mg/L	Ecoli MF/100 mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100mLs	Turbidity NTU
Jul 12, 2022 7:58:00 AM	13	8	<1	<1	0.38	0.46
Jul 19, 2022 7:48:00 AM	14	<2	<1	<1	0.21	0.23
Jul 26, 2022 8:05:00 AM	13	<2	<1	<1	0.28	0.54
Aug 02, 2022 7:56:00 AM	14	<2	<1	<1	0.19	0.59
Aug 09, 2022 8:10:00 AM	14	2	<1	<1	0.23	0.46
Aug 16, 2022 8:10:00 AM	16	18	<1	<1	0.2	0.49
Aug 23, 2022 8:05:00 AM	16	<2	<1	<1	0.26	0.22
Aug 30, 2022 7:45:00 AM	15	2	<1	<1	0.24	0.51
Sep 06, 2022 8:00:00 AM	16	10	<1	<1	0.21	0.51
Sep 13, 2022 7:50:00 AM	16	2	<1	<1	0.23	0.32
Sep 20, 2022 7:50:00 AM	17	<2	<1	<1	0.23	0.28
Sep 27, 2022 7:53:00 AM	18	<2	<1	<1	0.17	0.16
Oct 04, 2022 7:50:00 AM	18	8	<1	<1	0.22	0.35
Oct 11, 2022 8:02:00 AM	17	10	<1	<1	0.23	0.27
Oct 18, 2022 8:50:00 AM	16	<2	<1	<1	0.34	0.21
Oct 25, 2022 7:50:00 AM	15	<2	<1	<1	0.25	0.36
Nov 01, 2022 7:45:00 AM	13	<2	<1	<1	0.43	0.28
Nov 08, 2022 7:55:00 AM	12	<2	<1	<1	0.41	0.31
Nov 15, 2022 7:55:00 AM	12	<2	<1	<1	0.26	0.32
Nov 22, 2022 8:05:00 AM	11	2	<1	<1	0.25	0.32
Nov 29, 2022 8:30:00 AM	10	<2	<1	<1	0.42	0.23
Dec 06, 2022 7:51:00 AM	9	<2	<1	<1	0.22	0.36
Dec 13, 2022 7:58:00 AM	9	<2	<1	<1	0.21	0.37
Dec 21, 2022 8:50:00 AM	6	NA	<1	<1	0.2	0.32
Dec 28, 2022 7:57:00 AM	6	NA	<1	<1	0.69	0.68

APPENDIX – 3

METALS ANALYSIS RESULTS FROM GREATER VANCOUVER WATER DISTRICT LAB

Metal Analysis - Spring

	Sample Description	PMS-421	PMS-426		
	Sample Date	03/05/2022 8:32	03/05/2022 10:37	Canadian Guideline Limit	Reason Guideline Established
Aluminum Total	µg/L	90	95	2900	Health
Antimony Total	µg/L	<0.5	<0.5	6	health
Arsenic Total	µg/L	<0.5	<0.5	10	health
Barium Total	µg/L	2.1	2.8	2000	health
Boron Total	µg/L	<10	<10	5000	health
Cadmium Total	µg/L	<0.2	<0.2	7	health
Calcium Total	µg/L	832	1210	none	
Chromium Total	µg/L	<0.05	<0.05	50	health
Cobalt Total	µg/L	<0.5	<0.5	none	
Copper Total	µg/L	4.4	0.7	≤2000	aesthetic
Iron Total	µg/L	61	61	≤ 300	aesthetic
Lead Total	µg/L	<0.5	<0.5	5 (ALARA)	health
Magnesium Total	µg/L	96	92	None	
Manganese Total	µg/L	5.8	17.8	≤ 120	aesthetic
Mercury Total	µg/L	<0.05	<0.05	1.0	health
Molybdenum Total	µg/L	<0.5	<0.5	None	
Nickel Total	µg/L	<0.5	<0.5	None	
Potassium Total	µg/L	104	108	None	
Selenium Total	µg/L	<0.5	<0.5	50	health
Silver Total	µg/L	<0.5	<0.5	None	
Sodium Total	µg/L	11000	11200	≤ 200,000	aesthetic
Zinc Total	µg/L	<3.0	<3.0	≤ 5000	aesthetic

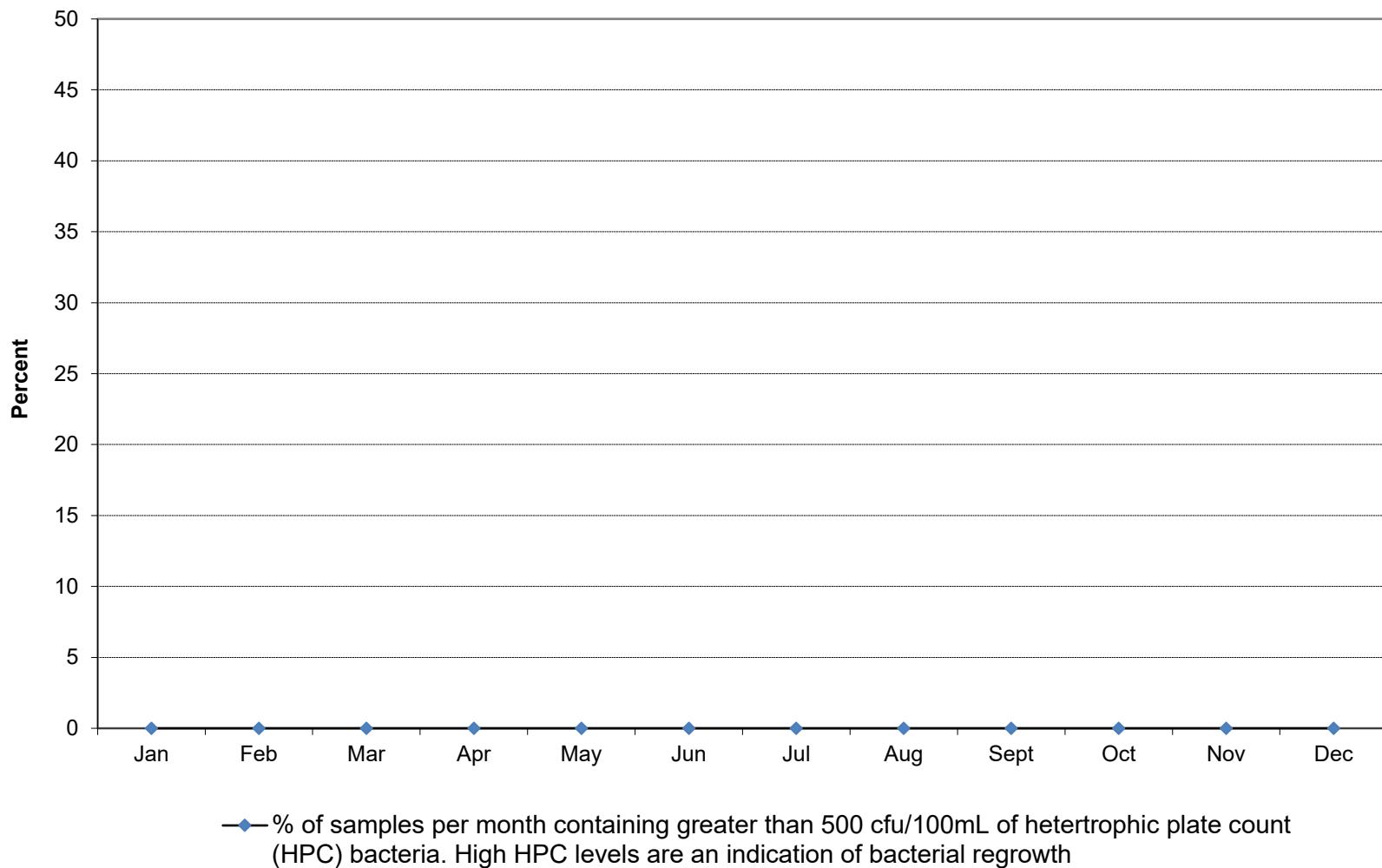
Metal Analysis - Fall

	Sample Description	PMS-421 12192 McMynn Ave.	PMS-426 McKechnie Road		
	Sample Date	08/11/2022 9:30	08/11/2022 10:30	Canadian Guideline Limit	Reason Guideline Established
Aluminum Total	µg/L	66	78	2900	Health
Antimony Total	µg/L	<0.5	<0.5	6	health
Arsenic Total	µg/L	<0.5	<0.5	10	health
Barium Total	µg/L	2.4	2.7	2000	health
Boron Total	µg/L	<10	<10	5000	health
Cadmium Total	µg/L	<0.2	<0.2	7	health
Calcium Total	µg/L	892	1340	none	
Chromium Total	µg/L	0.05	0.08	50	health
Cobalt Total	µg/L	<0.5	<0.5	none	
Copper Total	µg/L	6.1	1.0	≤2000	aesthetic
Iron Total	µg/L	54	56	≤ 300	aesthetic
Lead Total	µg/L	<0.5	<0.5	5 (ALARA)	health
Magnesium Total	µg/L	100	94	None	
Manganese Total	µg/L	2.7	1.8	≤ 120	aesthetic
Mercury Total	µg/L	<0.05	<0.05	1.0	health
Molybdenum Total	µg/L	<0.5	<0.5	None	
Nickel Total	µg/L	<0.5	<0.5	None	
Potassium Total	µg/L	132	136	None	
Selenium Total	µg/L	<0.5	<0.5	50	health
Silver Total	µg/L	<0.5	<0.5	None	
Sodium Total	µg/L	10400	10500	≤ 200,000	aesthetic
Zinc Total	µg/L	3.5	<3.0	≤ 5000	aesthetic

APPENDIX – 4

BACTERIOLOGICAL ANALYSIS OF POTABLE WATER SAMPLES

Municipality of Pitt Meadows - 2022 HPC Counts



20

Municipality of Pitt Meadows - 2022

Results of Bacteriological Analyses of Potable Water Samples
Compliance With BC Drinking Water Protection Regulation

15

% Samples Positive

5

0

10% Standard

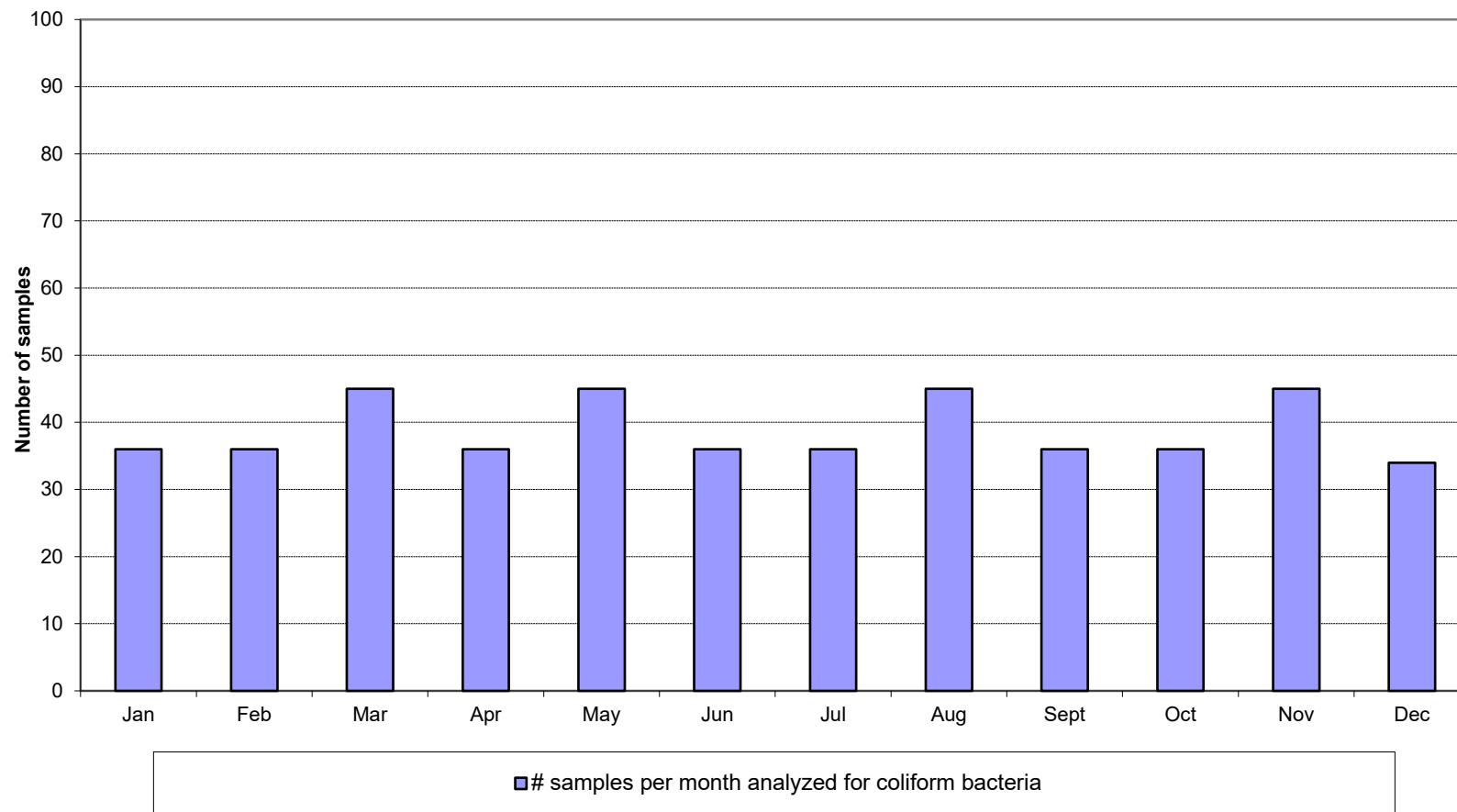
1-Jan 1-Feb 1-Mar 1-Apr 1-May 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec

— Percent of samples positive for coliform bacteria in a 30 day period ending on date shows (10% allowed)

● Number of samples per containing more than 10 coliform bacteria per 100 mL (none allowed)

● Number of samples positive for E. coli bacteria (none allowed)

Municipality of Pitt Meadows - 2022



APPENDIX – 5

**WEEKLY SAMPLE RESULTS – GREATER VANCOUVER
WATER DISTRICT SAMPLE STATION GV-012 IN PORT
MOODY AND GV-071 IN MAPLE RIDGE**

GVS-012 Port Moody Results:

Sampled date	Chlorine Free (mg/L)	Ecoli (CFU/100mLs)	HPC (CFU/mL)	pH (pH units)	Temperature (°C)	Total Coliform (CFU/100mLs)
2022-01-05 12:37	1.13	<1	<1	<2	8.3	3.8
2022-01-12 13:10	1.21	<1	<1	8	8.2	4
2022-01-18 13:30	1.34	<1	<1	54	8.1	4.7
2022-01-25 10:16	1.01	<1	<1	<2	8.2	4.8
2022-01-27 10:52	1.06	<1	<1	<2	8.2	4.7
2022-02-02 11:42	0.98	<1	<1	<2	7.8	4.4
2022-02-09 11:33	0.81	<1	<1	<2	7.9	4.7
2022-02-15 12:27	0.9	<1	<1	<2	8.2	4.9
2022-03-03 11:08	1.1	<1	<1	26	8.4	5.1
2022-03-10 12:24	0.89	<1	<1	<2	8.4	5.6
2022-03-18 11:47	0.68	<1	<1	2	8.2	6.2
2022-03-24 10:25	0.96	<1	<1	<2	8.4	6.1
2022-03-28 12:15	1.03	<1	<1	22	8.2	6
2022-04-14 12:08	0.71	<1	<1	<2	8.5	6.6
2022-04-20 09:48	0.8	<1	<1	46	8.4	6.3
2022-04-28 12:17	1.03	<1	<1	<2	8.3	7
2022-05-06 12:24	0.8	<1	<1	10	8.3	7.2
2022-05-11 11:34	0.89	<1	<1	8	8.3	7.6
2022-05-16 12:30	0.93	<1	<1	<2	8.3	7.6
2022-05-24 12:23	1.06	<1	<1	<2	8.2	8
2022-05-31 12:09	0.92	<1	<1	<2	8.3	8.7
2022-06-11 10:14	0.86	<1	<1	4	8.4	10.9
2022-06-12 12:02	0.84	<1	<1	<2	8.3	8.9
2022-06-20 12:13	1.13	<1	<1	2	8.4	8.6
2022-06-26 11:23	1.23	<1	<1	<2	8.3	9.1
2022-06-28 11:47	1.05	<1	<1	<2	8.2	8.7
2022-07-03 11:15	1.1	<1	<1	6		9
2022-07-07 07:59	0.89	<1	<1	6	8.3	9.3
2022-07-10 11:33	1	<1	<1	<2	8.2	9.5
2022-07-14 11:39	0.82	<1	<1	2	8.1	12.1
2022-07-17 11:54	1.12	<1	<1	4	8.3	11.1
2022-07-24 12:11	1.16	<1	<1	<2		12
2022-08-04 12:19	1.11	<1	<1	6		11
2022-08-08 12:18	0.79	<1	<1	62	8.3	12.8

Sampled date	Chlorine Free (mg/L)	Ecoli (CFU/100mLs)	HPC (CFU/mL)	pH (pH units)	Temperature (°C)	Total Coliform (CFU/100mLs)
2022-08-14 12:55	1.3	<1	<1	<2	8.2	13.9
2022-08-18 14:03	1.15	<1	<1	4	8.1	13
2022-08-21 12:34	1	<1	<1	<2	8.3	12.9
2022-08-28 12:20	1.17	<1	<1	<2	8.4	14.3
2022-09-08 11:38	1.16	<1	<1	<2	8.4	14.3
2022-09-15 10:05	0.9	<1	<1	<2	8.3	13.4
2022-09-21 12:24	1.4	<1	<1	12	8.1	14.9
2022-10-02 09:37	0.81	<1	<1	<2	8.3	15
2022-10-09 10:19	1.25	<1	<1	<2	8.3	15.3
2022-10-19 10:12	1.08	<1	<1	2	8.4	14.4
2022-10-23 10:51	0.93	<1	<1	<2	8.4	13.6
2022-11-10 12:06	0.86	<1	<1	2	8.2	9
2022-11-13 12:40	0.91	<1	<1	<2	7.9	8
2022-11-20 10:48	0.81	<1	<1	<2	8.3	7
2022-11-23 12:09	0.84	<1	<1	<2	8.3	8
2022-11-30 12:17	0.98	<1	<1	<2	8.2	6
2022-12-04 10:15	1.01	<1	<1	2	8.3	6
2022-12-07 12:25	0.82	<1	<1	<2	8.2	6
2022-12-14 12:13	0.9	<1	<1	<2	8.3	6

GVS-071 Maple Ridge Results:

Sampled date	Chlorine Free (mg/L)	Ecoli (CFU/100mLs)	HPC (CFU/mL)	pH (pH units)	Temperature (°C)	Total Coliform (CFU/100mLs)
2022-01-07 08:40	0.47	<1	<1	2	8.3	5.9
2022-01-10 11:31	0.84	<1	<1	400	8.2	4
2022-01-17 11:51	0.97	<1	<1	<2	8.2	7.8
2022-01-25 11:17	0.77	<1	<1	<2	8.3	6.8
2022-02-03 11:00	1	<1	<1	<2	8.1	4.5
2022-02-07 11:49	0.95	<1	<1	<2	8.2	6.5
2022-02-14 12:16	0.76	<1	<1	2	8.3	5.6
2022-02-22 11:50	0.75	<1	<1	<2	8.3	5.7
2022-03-03 11:41	1.28	<1	<1	<2	8.2	6.8
2022-03-11 09:04	0.87	<1	<1	<2	8.2	5.1
2022-03-14 12:01	0.52	<1	<1	<2	8.2	5.5
2022-03-21 11:07	0.95	<1	<1	<2	8.1	6.4
2022-03-31 08:55	0.66	<1	<1	<2	8.3	5.7
2022-04-07 07:15	1.1	<1	<1	2	8.4	6.8
2022-04-12 10:56	0.9	<1	<1	<2	8.1	6
2022-04-19 11:56	0.58	<1	<1	<2	8.1	7.6
2022-04-25 11:25	0.75	<1	<1	<2	8	7.6
2022-05-06 10:25	0.83	<1	<1	10	8.3	7.7
2022-05-12 10:34	0.83	<1	<1	2	8.4	8.2
2022-05-16 11:15	0.64	<1	<1	<2	8.1	8.7
2022-05-24 11:54	0.71	<1	<1	<2	8.1	9
2022-06-03 10:06	0.82	<1	<1	<2	8.2	9.8
2022-06-08 10:39	0.72	<1	<1	<2	8	9.7
2022-06-13 11:05	0.79	<1	<1	<2	8.2	9.3
2022-06-23 10:04	0.98	<1	<1	2		8.6
2022-06-27 10:58	0.76	<1	<1	2	8	9.9
2022-07-07 10:41	0.7	<1	<1	<2	7.8	10.3
2022-07-13 08:18	0.78	<1	<1	4	8.4	11
2022-07-20 07:48	0.72	<1	<1	24	8	10.9
2022-07-26 08:26	0.59	<1	<1	2	8	12.8
2022-08-05 11:21	0.72	<1	<1	<2	8	15
2022-08-12 09:12	0.67	<1	<1	<2	8	13.6
2022-08-15 10:30	0.67	<1	<1	<2	8.2	12.2
2022-08-23 11:17	0.81	<1	<1	<2	8.3	13.1

Sampled date	Chlorine Free (mg/L)	Ecoli (CFU/100mLs)	HPC (CFU/mL)	pH (pH units)	Temperature (°C)	Total Coliform (CFU/100mLs)
2022-09-09 09:43	0.85	<1	<1	20	7.8	14.8
2022-09-16 10:12	0.83	<1	<1	14	8.1	15.3
2022-09-23 09:32	0.75	<1	<1	6	7.7	14.1
2022-09-29 08:56	0.49	8	<1	210	7.7	15.4
2022-10-01 07:14	1	<1	<1	<2	8.3	15
2022-10-02 10:23	0.89	<1	<1	84	8.1	15.3
2022-10-03 11:52	0.78	<1	<1	8	7.7	15.5
2022-10-06 10:59	0.67	<1	<1	2	7.9	15.2
2022-10-12 11:48	0.75	<1	<1	<2	7.9	14.8
2022-10-21 10:39	0.91	<1	<1	16	8.2	14
2022-10-28 10:38	0.77	<1	<1	2	7.8	11
2022-11-04 10:08	0.56	<1	<1	<2		10
2022-11-07 10:57	0.78	<1	<1	2	8.1	10
2022-11-17 08:03	0.58	<1	<1	4	8.2	8
2022-11-23 09:45	0.78	<1	<1	10	7.6	8
2022-12-01 10:59	0.77	<1	<1	<2	7.9	7
2022-12-07 11:30	0.83	<1	<1	<2	8	6
2022-12-16 10:30	0.75	<1	<1	<2	8.2	6

APPENDIX – 6

SOURCE WATER QUALITY – COQUITLAM, SEYMOUR AND CAPILANO WATERSHEDS



Physical and Chemical Analysis of Water Supply

2022 – Capilano Water System

Parameter	Untreated ¹	Treated ¹		Canadian Guideline		
	Average	Average	Range	Days Exceeded	Limit ²	Reason Established
Alkalinity as CaCO ₃ (mg/L)	3.0	22	18-25	N/A	None	N/A
Aluminum Dissolved (µg/L)	59	26	20-35	N/A	None	N/A
Aluminum Total (µg/L)	126	29	18-51	0	2,900	Health
Antimony Total (µg/L)	<0.5	<0.5	<0.5	0	6	Health
Arsenic Total (µg/L)	<0.5	<0.5	<0.5	0	10 (ALARA)	Health
Barium Total (µg/L)	2.4	2.8	2.5-3.5	0	2,000	Health
Boron Total (µg/L)	<10	<10	<10	0	5,000	Health
Bromate (µg/L)	<10	<10	<10	0	10	Health
Bromide (µg/L)	<10	<10	<10	N/A	None	N/A
Cadmium Total (µg/L)	<0.2	<0.2	<0.2	0	7	Health
Calcium Total (µg/L)	1,200	8,430	7,560-9,280	N/A	None	N/A
Carbon Organic - Dissolved (mg/L)	1.5	0.6	0.4-0.9	N/A	None	N/A
Carbon Organic - Total (mg/L)	1.5	0.6	0.4-0.9	N/A	None	N/A
Chlorate (µg/L)	<10	25	16-41	0	1000	Health
Chloride (mg/L)	<0.5	2.3	2.1-2.9	0	≤ 250	Aesthetic
Chromium Total (µg/L)	<0.08	<0.05	<0.05	0	50	Health
Cobalt Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Colour - Apparent (ACU)	15	<3	<2-14	N/A	None	N/A
Colour - True (TCU)	10	<1	<1-1	0	≤ 15	Aesthetic
Conductivity (µmhos/cm)	10	49	43-54	N/A	None	N/A
Copper Total (µg/L)	1.4	<0.5	<0.5	0/0	2,000/1,000	Health/Aesthetic
Cyanide Total (mg/L)	<0.02	<0.02	<0.02	0	0.2	Health
Cyanobacterial Toxins - Microcystin - LR (µg/L)	<0.20	N/A	N/A	0	1.5	Health
Fluoride (mg/L)	<0.05	<0.05	<0.05	0	1.5	Health
Haloacetic Acids Total (µg/L)	<1.1	10.4	9.5-12	0	80 (ALARA)	Health
Hardness as CaCO ₃ (mg/L)	3.7	22.0	20.3-24.0	N/A	None	N/A
Iron Dissolved (µg/L)	51	<5	<5-9	N/A	None	N/A
Iron Total (µg/L)	154	<9	<5-64	0	≤ 300	Aesthetic
Lead Total (µg/L)	<0.5	<0.5	<0.5	0	5 (ALARA)	Health
Magnesium Total (µg/L)	176	208	181-256	N/A	None	N/A
Manganese Dissolved (µg/L)	7.4	2.8	0.9-5.0	N/A	None	N/A
Manganese Total (µg/L)	8.9	6.0	2.4-10.6	0/0	120/20	Health/Aesthetic
Mercury Total (µg/L)	<0.05	<0.05	<0.05	0	1	Health
Molybdenum Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Nickel Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Nitrogen - Ammonia as N (mg/L)	<0.02	<0.02	<0.02	N/A	None	N/A
Nitrogen - Nitrate as N (mg/L)	0.08	0.07	0.02-0.17	0	10	Health
Nitrogen - Nitrite as N (mg/L)	<0.01	<0.01	<0.01	0	1	Health
pH (pH units)	6.5	8.0	7.8-8.4	0	7.0-10.5	None
Phenol (mg/L)	<0.005	<0.005	<0.005	N/A	None	N/A
Potassium Total (µg/L)	148	172	135-228	N/A	None	N/A
Residue Total (mg/L)	15	34	31-36	N/A	None	N/A
Residue Total Dissolved (TDS) (mg/L)	10	30	30-40	0	≤ 500	Aesthetic
Residue Total Fixed (mg/L)	9	27	25-30	N/A	None	N/A
Residue Total Volatile (mg/L)	6	7	5-9	N/A	None	N/A
Selenium Total (µg/L)	<0.5	<0.5	<0.5	0	50	Health
Silica as SiO ₂ (mg/L)	3.2	3.3	2.8-3.6	N/A	None	N/A
Silver Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Sodium Total (µg/L)	591	1,570	1,380-1,820	0	≤ 200,000	Aesthetic
Trihalomethanes Total (µg/L)	<4	18	16-20	0	100	Health
Turbidity (NTU)	1.3	0.15	0.07-1.2	N/A	None ³	N/A
Uranium Total (µg/L)	0.0302	N/A	N/A	0	50	Health
UV Absorbance 254 nm (Abs/cm)	0.062	0.010	0.008-0.013	N/A	None	N/A
Zinc Total (µg/L)	<3	<3	<3-5	0	≤ 5,000	Aesthetic

¹Untreated water is sampled from the source intake. Treated water is sampled prior to entering the Capilano transmission system.

²Limits are taken from the Guidelines for Canadian Drinking Water Quality summary table (September 2022).

³GCDWQ recommends that water entering the distribution system have turbidity levels of 1.0 NTU or less.



Physical and Chemical Analysis of Water Supply

2022 – Seymour Water System

Parameter	Untreated ¹	Treated ¹		Canadian Guideline		
	Average	Average	Range	Days Exceeded	Limit ²	Reason Established
Alkalinity as CaCO ₃ (mg/L)	3.6	22	18-24	N/A	None	N/A
Aluminum Dissolved (µg/L)	48	25	19-34	N/A	None	N/A
Aluminum Total (µg/L)	87	30	18-55	0	2,900	Health
Antimony Total (µg/L)	<0.5	<0.5	<0.5	0	6	Health
Arsenic Total (µg/L)	<0.5	<0.5	<0.5	0	10 (ALARA)	Health
Barium Total (µg/L)	2.9	2.8	2.5-3.5	0	1,000	Health
Boron Total (µg/L)	<10	<10	<10	0	5,000	Health
Bromate (µg/L)	<10	<10	<10	0	10	Health
Bromide (µg/L)	<10	<10	<10	N/A	None	N/A
Cadmium Total (µg/L)	<0.2	<0.2	<0.2	0	5	Health
Calcium Total (µg/L)	1,620	8,450	7,520-9,240	N/A	None	N/A
Carbon Organic - Dissolved (mg/L)	1.3	0.6	0.5-1.0	N/A	None	N/A
Carbon Organic - Total (mg/L)	1.4	0.6	0.4-1.0	N/A	None	N/A
Chlorate (µg/L)	<10	23	13-40	0	1000	Health
Chloride (mg/L)	<0.5	2.3	2.1-2.9	0	≤250	Aesthetic
Chromium Total (µg/L)	<0.06	<0.06	<0.05-0.07	0	50	Health
Cobalt Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Colour - Apparent (ACU)	14	<2	<2-6	N/A	None	N/A
Colour - True (TCU)	9	<1	<1-1	0	≤15	Aesthetic
Conductivity (µmhos/cm)	12	49	43-53	N/A	None	N/A
Copper Total (µg/L)	22.3	<2	<0.5-5.5	0/0	2,000/1,000	Health/Aesthetic
Cyanide Total (mg/L)	<0.02	<0.02	<0.02	0	0.2	Health
Cyanobacterial Toxins - Microcystin - LR (µg/L)	<0.20	N/A	N/A	0	1.5	Health
Fluoride (mg/L)	<0.05	<0.05	<0.05	0	1.5	Health
Haloacetic Acids Total (µg/L)	<1.1	11.7	7.8-19	0	80 (ALARA)	Health
Hardness as CaCO ₃ (mg/L)	4.7	21.9	19.5-23.9	N/A	None	N/A
Iron Dissolved (µg/L)	74	<5	<5-7	N/A	None	N/A
Iron Total (µg/L)	168	<9	<5-22	0	≤300	Aesthetic
Lead Total (µg/L)	<0.5	<0.5	<0.5	0	5 (ALARA)	Health
Magnesium Total (µg/L)	153	210	180-266	N/A	None	N/A
Manganese Dissolved (µg/L)	5.6	3.5	1.1-6.1	N/A	None	N/A
Manganese Total (µg/L)	8.8	6.5	2.7-12.8	0	≤50	Aesthetic
Mercury Total (µg/L)	<0.05	<0.05	<0.05	0	1	Health
Molybdenum Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Nickel Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Nitrogen - Ammonia as N (mg/L)	<0.02	<0.02	<0.02	N/A	None	N/A
Nitrogen - Nitrate as N (mg/L)	0.06	0.07	0.02-0.17	0	45	Health
Nitrogen - Nitrite as N (mg/L)	<0.01	<0.01	<0.01	0	1	Health
pH (pH units)	6.5	8.0	7.7-8.3	0	7.0-10.5	None
Phenol (mg/L)	<0.005	<0.005	<0.005	N/A	None	N/A
Potassium Total (µg/L)	156	170	137-226	N/A	None	N/A
Residue Total (mg/L)	16	34	31-36	N/A	None	N/A
Residue Total Dissolved (TDS) (mg/L)	10	30	30-40	0	≤500	Aesthetic
Residue Total Fixed (mg/L)	9	27	25-30	N/A	None	N/A
Residue Total Volatile (mg/L)	6	7	5-8	N/A	None	N/A
Selenium Total (µg/L)	<0.5	<0.5	<0.5	0	50	Health
Silica as SiO ₂ (mg/L)	3.2	3.3	2.8-3.6	N/A	None	N/A
Silver Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Sodium Total (µg/L)	558	1,550	1,390-1,810	0	≤200,000	Aesthetic
Trihalomethanes Total (µg/L)	<4	16	16-17	0	100	Health
Turbidity (NTU)	0.58	0.15	0.07-0.28	N/A	None ³	N/A
Uranium Total (µg/L)	0.0198	N/A	N/A	0	50	Health
UV Absorbance 254 nm (Abs/cm)	0.058	0.010	0.008-0.015	N/A	None	N/A
Zinc Total (µg/L)	<5	<3	<3-3	0	≤5,000	Aesthetic

¹Untreated water is sampled prior to the SCFP. Treated water is sampled prior to entering the Seymour transmission system.

²Limits are taken from the Guidelines for Canadian Drinking Water Quality summary table (September 2022).

³GCDWQ recommends that water entering the distribution system have turbidity levels of 1.0 NTU or less.



Physical and Chemical Analysis of Water Supply

2022 – Coquitlam Water System

Parameter	Untreated ¹	Treated ¹		Canadian Guideline		
	Average	Average	Range	Days Exceeded	Limit ²	Reason Established
Alkalinity as CaCO ₃ (mg/L)	1.9	21	20-26	N/A	None	N/A
Aluminum Dissolved (µg/L)	59	68	51-85	N/A	None	N/A
Aluminum Total (µg/L)	81	83	61-106	0	2,900	Health
Antimony Total (µg/L)	<0.5	<0.5	<0.5	0	6	Health
Arsenic Total (µg/L)	<0.5	<0.5	<0.5	0	10 ¹	Health
Barium Total (µg/L)	2.6	2.4	1.7-3.6	0	1,000	Health
Boron Total (µg/L)	<10	<10	<10	0	5,000	Health
Bromate (µg/L)	<10	<10	<10	0	10	Health
Bromide (µg/L)	<10	<10	<10		None	N/A
Cadmium Total (µg/L)	<0.2	<0.2	<0.2	0	5	Health
Calcium Total (µg/L)	807	911	706-2,300	N/A	None	N/A
Carbon Organic - Dissolved (mg/L)	1.5	1.4	1.1-2.0	N/A	None	N/A
Carbon Organic - Total (mg/L)	1.6	1.4	1.2-2.1	N/A	None	N/A
Chlorate (µg/L)	<10	52	32-85	0	1,000	Health
Chloride (mg/L)	<0.5	2.1	1.9-2.3	0	≤250	Aesthetic
Chromium Total (µg/L)	<0.06	<0.05	<0.05-0.05	0	50	Health
Cobalt Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Colour - Apparent (ACU)	12	<3	<2-8	N/A	None	N/A
Colour - True (TCU)	9	<1	<1-6	0	≤15	Aesthetic
Conductivity (µmhos/cm)	8	45	40-53	N/A	None	N/A
Copper Total (µg/L)	4.4	<0.5	<0.5	0/0	2,000/1,000	Health/Aesthetic
Cyanide Total (mg/L)	<0.02	<0.02	<0.02	0	0.2	Health
Cyanobacterial Toxins - Microcystin - LR (µg/L)	<0.20	N/A	N/A	0	1.5	Health
Fluoride (mg/L)	<0.05	<0.05	<0.05	0	1.5	Health
Haloacetic Acids Total (µg/L)	<1.1	7.4	4.2-12	0	80 ¹	Health
Hardness as CaCO ₃ (mg/L)	2.4	2.7	2.1-6.2	N/A	None	N/A
Iron Dissolved (µg/L)	18	19	12-35	N/A	None	N/A
Iron Total (µg/L)	48	49	25-76	0	≤300	Aesthetic
Lead Total (µg/L)	<0.5	<0.5	<0.5	0	5 ¹	Health
Magnesium Total (µg/L)	93	94	77-110	N/A	None	N/A
Manganese Dissolved (µg/L)	3.9	2.7	1.6-3.7	N/A	None	N/A
Manganese Total (µg/L)	4.4	3.6	2.0-4.8	0	≤50	Aesthetic
Mercury Total (µg/L)	<0.05	<0.05	<0.05	0	1	Health
Molybdenum Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Nickel Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Nitrogen - Ammonia as N (mg/L)	<0.02	<0.02	<0.02	N/A	None	N/A
Nitrogen - Nitrate as N (mg/L)	0.07	0.08	0.04-0.11	0	45	Health
Nitrogen - Nitrite as N (mg/L)	<0.01	<0.01	<0.01	0	1	Health
pH (pH units)	6.3	8.2	7.6-8.9	0		None
Phenol (mg/L)	<0.005	<0.005	<0.005	N/A	None	N/A
Potassium Total (µg/L)	147	144	102-234	N/A	None	N/A
Residue Total (mg/L)	12	35	33-37	N/A	None	N/A
Residue Total Dissolved (TDS) (mg/L)	9	30	30	0	≤500	Aesthetic
Residue Total Fixed (mg/L)	6	23	20-24	N/A	None	N/A
Residue Total Volatile (mg/L)	6	12	9-14	N/A	None	N/A
Selenium Total (µg/L)	<0.5	<0.5	<0.5	0	50	Health
Silica as SiO ₂ (mg/L)	2.4	2.4	2.2-2.5	N/A	None	N/A
Silver Total (µg/L)	<0.5	<0.5	<0.5	N/A	None	N/A
Sodium Total (µg/L)	448	10,300	9,000-11,100	0	≤200,000	Aesthetic
Trihalomethanes Total (µg/L)	<4	8	6-12	0	100	Health
Turbidity (NTU)	<0.4	0.36	0.13-4.5	N/A	None ³	N/A
Uranium Total (µg/L)	0.0491	N/A	N/A	0	50	Health
UV 254 - Apparent (Abs/cm)	0.065	0.023	0.016-0.057	N/A	None	N/A
UV Absorbance 254 nm (Abs/cm)	0.059	0.020	0.013-0.050	N/A	None	N/A
Zinc Total (µg/L)	<3	<3	<3-5	0	≤5,000	Aesthetic

¹Untreated water is sampled from the source intake. Treated water is sampled prior to entering the Coquitlam transmission system.

²Limits are taken from the Guidelines for Canadian Drinking Water Quality summary table (September 2022).

³GCDWQ recommends that water entering the distribution system have turbidity levels of 1.0 NTU or less.

APPENDIX – 7

PHYSICAL AND CHEMICAL ANALYSIS – COQUITLAM WATER SYSTEM

Analysis of Source Waters for Herbicides, Pesticides, and other Organic Compounds

Parameter	Capilano (µg/L)	Seymour (µg/L)	Coquitlam (µg/L)	MAC (µg/L)	AO (µg/L)
	Jul 26	Jul 26	Jul 26		
Herbicides					
2,4-D	<1.0	<1.0	<1.0	100	None
Bromoxynil	<0.50	<0.50	<0.50	30	None
Dicamba	<1.0	<1.0	<1.0	110	None
Diclofop-methyl	<0.90	<0.90	<0.90	None	None
Diquat	<7.0	<7.0	<7.0	50	None
Diuron	<10	<10	<10	None	None
Glyphosate	<10	<10	<10	280	None
MCPA	<10	<10	<10	350	None
Metribuzin (Sencor)	<5.0	<5.0	<5.0	80	None
Paraquat	<1.0	<1.0	<1.0	None	None
Picloram	<5.0	<5.0	<5.0	None	None
Pesticides					
Atrazine	<0.50	<0.50	<0.50	5	None
Carbaryl	<5.0	<5.0	<5.0	None	None
Carbofuran	<5.0	<5.0	<5.0	None	None
Chlorpyrifos (Dursban)	<1.0	<1.0	<1.0	90	None
Diazinon	<1.0	<1.0	<1.0	None	None
Dimethoate	<2.5	<2.5	<2.5	20	None
Guthion (Azinphos-methyl)	<2.0	<2.0	<2.0	None	None
Malathion	<5.0	<5.0	<5.0	190	None
Metolachlor	<0.50	<0.50	<0.50	None	None
Phorate (Thimet)	<0.50	<0.50	<0.50	None	None
Simazine	<1.0	<1.0	<1.0	None	None
Terbufos	<0.50	<0.50	<0.50	None	None
Trifluralin	<1.0	<1.0	<1.0	None	None
Other Organic Compounds					
Phenolics					
2,3,4,6-tetrachlorophenol	<0.50	<0.50	<0.50	None	None
2,4,6-trichlorophenol	<0.50	<0.50	<0.50	5	≤2
2,4-dichlorophenol	<0.25	<0.25	<0.25	None	None
Pentachlorophenol	<0.50	<0.50	<0.50	60	≤30

Analysis of Source Waters for Herbicides, Pesticides, and other Organic Compounds Con't.

Parameter	Capilano (µg/L)	Seymour (µg/L)	Coquitlam (µg/L)	MAC (µg/L)	AO (µg/L)
	Jul 26	Jul 26	Jul 26		
Volatile Organics					
1,1-dichloroethene	<0.50	<0.50	<0.50	14	None
1,2-dichlorobenzene	<0.50	<0.50	<0.50	None	None
1,2-dichloroethane	<0.50	<0.50	<0.50	5	None
1,4-dichlorobenzene	<0.50	<0.50	<0.50	5	≤1
Benzene	<0.40	<0.40	<0.40	5	None
Carbon tetrachloride	<0.50	<0.50	<0.50	2	None
Chlorobenzene	<0.50	<0.50	<0.50	None	None
Dibromomethane	<0.90	<0.90	<0.90	None	None
Dichloromethane	<2.0	<2.0	<2.0	50	None
Ethylbenzene	<0.40	<0.40	<0.40	140	1.6
Methyl-tert-butylether (MTBE)	<4.0	<4.0	<4.0	None	≤15
Tetrachloroethene	<0.50	<0.50	<0.50	10	N/A
Toluene	<0.40	<0.40	<0.40	60	24
Trichloroethene	<0.50	<0.50	<0.50	5	None
Vinyl chloride	<0.50	<0.50	<0.50	2 (ALARA)	None
m & p-Xylene	<0.40	<0.40	<0.40	None	None
o-Xylene	<0.40	<0.40	<0.40	None	None
Xylenes (Total)	<0.40	<0.40	<0.40	90	20
Miscellaneous					
Nitrilotriacetic Acid : Nitrilotriacetic acid (NTA) (mg/L)	<0.050	<0.050	<0.050	0.4 mg/L	None
N-Nitrosodimethylamine (NDMA) (ng/L)	<2.2	<2.2	<2.1	40 ng/L	None

Monitoring of Selected GVWD Water Mains for BTEX

Parameter	Maple Ridge Main		Barnston Island Main at Willoughby Pump Station		Jericho Clayton Main		South Burnaby Main No. 2		MAC (µg/L)	AO (µg/L)		
	(µg/L)		(µg/L)		(µg/L)		(µg/L)					
	May 16	Dec 1	May 17	Dec 8	May 17	Dec 1	May 17	Nov 29				
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	None		
Ethyl Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	140	1.6		
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	60	24		
m & p-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	None	None		
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	None	None		
Total Xylenes	<1	1	<1	1	<1	1	<1	1	90	20		
Total BTEX	<1	2	1	1	<1	2	<1	1	None	None		

Analysis of Source Water for PAHs

Parameter	Capilano (µg/L)				Seymour (µg/L)				Coquitlam (µg/L)			
	May 16	Jul 26	Nov 29	May 16	Jul 26	Nov 28	May 16	Jul 26	Dec 1			
1-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Methylnaphthalene	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene ¹	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b&i;)fluoranthene	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Benzo(g,h,i)perylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenz(a,h)anthracene	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Fluoranthene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total PAHs	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

¹Benzo(a)pyrene is the only PAH compound that has a GCDWQ limit. Maximum Acceptable Concentration of Benzo(a)pyrene is 0.04 µg/L.

Analysis of Selected GVWD Mains for PAHs

Parameters	Coquitlam Main No. 2		Westburnco Reservoir		Barnston Island Main		Annacis Main No. 4		Whalley - Kennedy Link Main		Haney Main No. 2		36 Ave. Main (μg/L)	
	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
1-Methylnaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Methylnaphthalene	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benz[a]anthracene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzol[a]pyrene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzol[b-h]fluoranthene	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Benzol[g,h]perylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzol[k]fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo[a,h]anthracene	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Fluoranthene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno[1,2,3-c,d]pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	<0.020	<0.020	<0.020	<0.028	<0.020	<0.020	<0.021	<0.020	<0.020	<0.023	<0.020	<0.020	<0.020	<0.020
Total PAHs	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

¹Benzo(a)pyrene is the only PAH compound that has a GCDWQ limit. Maximum Acceptable Concentration of Benzo(a)pyrene is 0.04 μg/L.

Analysis of Source Water for Radionuclides

Parameter	Capilano (Bq/L)	Seymour (Bq/L)	Coquitlam (Bq/L)	MAC (Bq/L)
	Jul 26	Jul 26	Jul 26	
Gross Alpha	<0.10	<0.10	<0.10	0.5
Gross Beta	<0.10	<0.10	<0.10	1
Cesium-134	<1	<1	<1	None
Cesium-137	<1	<1	<1	10
Iodine-131	<1	<1	<1	6
Lead-210	<0.10	<0.10	<0.10	0.2
Manganese-54	<1	<1	<1	None
Radium 226	<0.010	<0.010	<0.010	0.5
Radon-222	<10	<10	<10	None
Strontium-90	<0.10	<0.10	<0.10	7
Tritium	<20	<20	<20	7,000
Zinc-65	<1	<1	<1	None

APPENDIX – 8

2022 OPERATING PERMIT



fraserhealth

**HEALTH
PROTECTION**

PERMIT TO OPERATE

**A Drinking Water System with
301-10000 Connections**

Water Supplier:

Facility Name:

City of Pitt Meadows

City of Pitt Meadows Water System

Conditions of Permit

By December 31, 2014, the drinking water that you provide must have undergone treatment that achieves the following:

1. At least a 4-log (99.99%) reduction and/or inactivation of viruses
 2. At least a 3-log (99.9%) reduction and/or inactivation of Giardia cysts
 3. At least a 3-log (99.9%) reduction and/or inactivation of Cryptosporidium oocysts
- A written update on the status of the plan to meet these terms and conditions shall be submitted to Fraser Health Authority by March 31st of each calendar year.

29-Aug-2013

Effective Date


Environmental Health Officer

*This permit must be displayed
in a conspicuous place and is nontransferable*

