

Village of Pemberton Water System Annual Report - 2021

INTRODUCTION

This report has been prepared for the consumers of the Drinking Water System of the Village of Pemberton to provide basic information on water quality and compliance with health standards. Public feedback and comments are always welcomed and should be directed to Village staff or Vancouver Coastal Health (Squamish) officials.

CONSUMPTION (CUBIC METERS/DAY):

Daily flow is recorded at the Wellhouse located in Pioneer Park. Table 1 displays the maximum, minimum, average, and total water flows for 2021 and includes the previous two years for comparison. Although the average daily flow volumes have been somewhat consistent over the past three years, there was a significant jump in the high flow days, with several days exceeding the 2021 maximum. The Village will be prioritizing water conservation efforts and leak detection to prevent consumption levels from exceeding current aquifer capacities. For daily results, please refer to **Appendix I**.

Table 1 - Overall Water Consumption Summary

	2019 Consumption	2020 Consumption	2021 Consumption
Average Flow/day:	1,838 m ³	1,855 m ³	1,915 m ³
High Flow/day:	3,527 m ³ <i>(June 17, 2019)</i>	3,774 m ³ <i>(July 29, 2020)</i>	4,264 m ³ <i>(August 13, 2021)</i>
Low Flow/day:	1,067 m ³ <i>(January 19, 2019)</i>	1,038 m ³ <i>(December 17, 2020)</i>	843 m ³ <i>(December 4, 2021)</i>
Total Annual	667,727 m ³	676,900 m ³	700,987m ³

CHLORINATION:

Chlorination is a condition of the Village of Pemberton’s operating permit and has been in effect since March 2009. The objective is to have a positive residual chlorine reading throughout the water distribution system. The Fire Hall chlorine analyzer serves as the central measuring point, where a minimum residual of 0.20 mg/L is desired.

The chlorine residual is monitored continuously by a dedicated computer and alarm set points ensure consistent dosing. Daily readings of the previous 24-hour minimum residuals are recorded. The annual numbers are shown in Table 2.

Table 2 - 2021 Chlorine Residual Summary

	Residual (mg/L)
Average:	0.31
High:	0.44
Low:	0.13

To ensure that target chlorine residuals are achieved within the distribution system, the Village also carries out manual sampling at 9 sites throughout the distribution system each week.

For daily results, please refer to **Appendix I** and for weekly sample results **Appendix III**.

WATER CHEMISTRY:

The Annual Total Metals, Volatile Organic Compounds and Trihalomethane sampling was performed January, 2021. Sampling was conducted on production Wells #2 & 3, Oak St. and the Industrial Park sample stations. The test results indicate that all of the items tested, with the exception of Manganese in Backup Well 2, are within Health Canada Maximum Acceptable Concentration (MAC) limits. It has been observed that Manganese levels in Wells 2 fluctuate throughout year with the average of 0.10 mg/L. In 2019, the guidelines for manganese were changed to a MAC of 0.12 mg/L (120 µg/L) and an AO of 0.02 mg/L (20 µg/L) for total manganese in drinking water. In 2020 the Village drilled 2 test Wells in the Pemberton creek aquifer in search of a new source that would deliver better quality water. One test well proved to have insufficient yield while the second test well had similar water quality to that of the emergency backup well, therefore Village staff began investigating treatment options. In 2021, the Village commissioned consultants to carry out a preliminary design for a water treatment facility to remove iron and manganese from the water supply. Once preliminary designs are completed, the Village will seek grant funding opportunities to proceed with construction of a new treatment facility . For full water quality test results from 2021, please refer to **Appendix II**.

CORROSION CONTROL:

In June of 2016, the Village of Pemberton undertook a water sampling program to determine the best course of action to mitigate the corrosion of metallic plumbing systems and fixtures. The results indicated a need to adjust the pH and alkalinity of the well water which is

considered slightly acidic. A water conditioning plant was designed and constructed in 2016 – 2017 and utilizes Sodium Carbonate (Soda Ash) to increase the pH and Alkalinity of Pemberton’s well water, prior to distribution. In October 2017, the Village established a target pH of 7 and an (alkalinity) between 40 and 80mg/L as measured as CaCO₃ (Calcium Carbonate). In addition to the automated control system, water samples are tested weekly from 7 sample stations throughout the distribution system, and pH and alkalinity are recorded. For results, please refer to **Appendix III**.

Flush Message

In 2015 Vancouver Coastal Health Authority requested that the following message be communicated to residents:

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 cold and 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 (Zubel,2014). If residents have any questions, they are encouraged to contact the Vancouver Coastal Health Authorities Drinking Water Officer at 604-892-2293.

CROSS CONNECTION CONTROL

To maintain safe drinking water and remain in compliance with the Vancouver Coastal Health Authority (VCH), the Village of Pemberton has begun a utility-wide Cross Connection Control / Backflow Prevention Program. A cross connection is any actual or potential connection between drinking water and a non-potable substance (contaminant). Backflow is the reverse flow from normal within a piping system. When a cross connection and backflow are combined, often the result is a contaminant entering our drinking water.

In 2018, the Cross Connection Control Bylaw was passed by council and an initial assessment and database was completed for Village infrastructure. In 2021, the program was expanded to

incorporate Industrial, Commercial, and Institutional buildings in the Village that could pose a threat to the water system in the event of a backflow.

BACKUP POWER

In December of 2021, a backup generator was installed at the Wellhouse. The generator provides enough power for all of the treatment equipment and startup and operation of the well pumps in the event of a BC Hydro power failure. The backup system will greatly improve the resiliency of the water system and the community's emergency preparedness.

BACTERIOLOGICAL ANALYSIS:

Water samples are collected and submitted weekly to the laboratory at Vancouver Coastal Health for bacteriological analysis. These samples are taken directly from both active sources (Well #2 and #3), as well as the following locations:

- Oak St
- Village Office
- Health Centre
- Treatment Plant
- Pemberton Plateau
- Industrial Park (Mount Currie water source)
- Collins Rd
- Pemberton Meadows Rd.
- Pemberton Farm Rd (West)
- Urdal Rd.

The individual results are on file at Vancouver Coastal Health (Squamish) and the Village Office, and are posted regularly online at:

www.healthspace.ca/Clients/VCHA/CoastGaribaldi/CoastGaribaldi_Website.nsf

For Sample Range Reports, please refer to **Appendix IV**.



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APPENDIX I

2021 Daily Total Consumption and Chlorine Residual

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
January			January			January		
1	1317	0.28	1	1313	0.30	1	1317	0.14
2	1286	0.29	2	1238	0.34	2	1286	0.13
3	1266	0.27	3	1194	0.34	3	1266	0.15
4	1433	0.25	4	1321	0.30	4	1433	0.16
5	2470	0.24	5	1287	0.30	5	2470	0.18
6	2498	0.28	6	1297	0.30	6	1198	0.16
7	2497	0.31	7	1139	0.30	7	2497	0.22
8	1698	0.29	8	1238	0.30	8	1698	0.24
9	1276	0.28	9	1241	0.31	9	1276	0.25
10	1300	0.27	10	1121	0.33	10	1300	0.27
11	1087	0.28	11	1249	0.33	11	1087	0.26
12	1265	0.28	12	1263	0.31	12	1265	0.26
13	1245	0.29	13	1142	0.32	13	1245	0.26
14	1264	0.29	14	1365	0.32	14	1264	0.28
15	1194	0.28	15	1331	0.32	15	1194	0.28
16	1172	0.28	16	1287	0.32	16	1172	0.29
17	1238	0.29	17	1280	0.32	17	1238	0.27
18	1221	0.30	18	1295	0.32	18	1221	0.26
19	1067	0.29	19	1306	0.32	19	1067	0.29
20	1245	0.28	20	1336	0.32	20	1245	0.29
21	1251	0.30	21	1316	0.32	21	1251	0.27
22	1121	0.29	22	1202	0.24	22	1121	0.27
23	1143	0.29	23	1342	0.26	23	1143	0.25
24	1150	0.30	24	1198	0.29	24	1150	0.24
25	1231	0.31	25	1211	0.29	25	1231	0.24
26	1250	0.31	26	1308	0.29	26	1250	0.25
27	1239	0.31	27	1325	0.29	27	1239	0.24
28	1195	0.31	28	1337	0.35	28	1195	0.22
29	1211	0.30	29	1257	0.29	29	1211	0.27
30	1263	0.30	30	1236	0.29	30	1263	0.22
31	1181	0.30	31	1308	0.31	31	1181	0.22
Monthly Total	42274		Monthly Total	39284		Monthly Total	40974	
Daily Average	1364	0.29	Daily Average	1267	0.31	Daily Average	1322	0.24

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
February			February			February		
1	1244	0.31	1	1319	0.31	1	1091	0.22
2	1128	0.31	2	1291	0.31	2	1149	0.21
3	1284	0.29	3	1292	0.37	3	1093	0.19
4	1293	0.31	4	1270	0.37	4	1050	0.19
5	1243	0.30	5	1193	0.34	5	1280	0.20
6	1196	0.29	6	1220	0.32	6	1208	0.21
7	1291	0.27	7	1287	0.35	7	1354	0.22
8	1254	0.30	8	1280	0.35	8	1310	0.24
9	1247	0.30	9	1284	0.35	9	1290	0.24
10	1199	0.31	10	1310	0.37	10	1225	0.23
11	1266	0.31	11	1312	0.37	11	1372	0.26
12	1309	0.30	12	1271	0.37	12	1547	0.24
13	1247	0.29	13	1517	0.35	13	1511	0.28
14	1152	0.28	14	1201	0.30	14	1704	0.27
15	1152	0.27	15	1254	0.29	15	1468	0.27
16	1310	0.26	16	1299	0.29	16	1619	0.29
17	1310	0.25	17	1308	0.29	17	1592	0.29
18	1335	0.27	18	1301	0.29	18	1410	0.29
19	1364	0.28	19	1319	0.29	19	1336	0.32
20	1330	0.24	20	1118	0.29	20	1436	0.30
21	1285	0.27	21	1272	0.28	21	1436	0.30
22	1163	0.28	22	1328	0.28	22	1502	0.29
23	1312	0.28	23	1164	0.28	23	1458	0.27
24	1304	0.29	24	1230	0.31	24	1685	0.30
25	1138	0.29	25	1253	0.32	25	1378	0.33
26	1284	0.28	26	1124	0.33	26	1889	0.34
27	1280	0.28	27	1132	0.30	27	1450	0.35
28	1164	0.18	28	1074	0.29	28	1309	0.33
			29	1237	0.29			
Monthly Total	35084		Monthly Total	36457		Monthly Total	39153	
Daily Average	1257	0.28	Daily Average	1257	0.32	Daily Average	1398	0.27

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
March			March			March		
1	1273	0.28	1	1129	0.29	1	965	0.32
2	1135	0.28	2	1235	0.28	2	1373	0.34
3	1320	0.28	3	1089	0.29	3	1730	0.35
4	1345	0.27	4	1241	0.28	4	1483	0.32
5	1349	0.28	5	1285	0.29	5	1384	0.33
6	1338	0.28	6	1312	0.29	6	1259	0.27
7	1267	0.27	7	1100	0.29	7	1172	0.28
8	1201	0.27	8	1271	0.29	8	1284	0.27
9	1203	0.26	9	1287	0.29	9	1285	0.27
10	1369	0.26	10	1137	0.27	10	1136	0.26
11	1376	0.27	11	1200	0.27	11	1278	0.27
12	1431	0.26	12	1195	0.27	12	1212	0.31
13	1386	0.26	13	1284	0.27	13	1233	0.32
14	1404	0.26	14	1207	0.27	14	1262	0.35
15	1364	0.25	15	1348	0.28	15	1327	0.33
16	1384	0.25	16	1308	0.27	16	1180	0.37
17	1343	0.25	17	1212	0.27	17	1387	0.37
18	1420	0.26	18	1318	0.27	18	1368	0.38
19	1262	0.24	19	1174	0.28	19	1336	0.33
20	1346	0.25	20	1291	0.30	20	1284	0.35
21	1314	0.25	21	1327	0.30	21	1177	0.35
22	1317	0.26	22	1143	0.30	22	1255	0.34
23	1334	0.24	23	1314	0.30	23	1300	0.35
24	1323	0.24	24	1161	0.26	24	1274	0.33
25	1385	0.22	25	1349	0.26	25	1340	0.33
26	1315	0.25	26	1234	0.26	26	1482	0.33
27	1192	0.25	27	1243	0.27	27	1302	0.31
28	1205	0.25	28	1300	0.27	28	1227	0.25
29	1318	0.25	29	1315	0.27	29	1317	0.31
30	1281	0.25	30	1242	0.27	30	1235	0.31
31	1297	0.25	31	1344	0.29	31	1232	0.29
Monthly Total	40797		Monthly Total	38593		Monthly Total	40078	
Daily Average	1316	0.26	Daily Average	1245	0.28	Daily Average	1293	0.32

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
April			April			April		
1	1303	0.26	1	1330	0.28	1	1202	0.32
2	1187	0.25	2	1155	0.25	2	1338	0.32
3	1351	0.25	3	1297	0.26	3	1342	0.31
4	1314	0.24	4	1307	0.26	4	1318	0.30
5	1279	0.24	5	1131	0.26	5	1320	0.29
6	1302	0.25	6	1301	0.26	6	1374	0.32
7	2046	0.25	7	1141	0.28	7	1280	0.29
8	2992	0.26	8	1381	0.28	8	1311	0.28
9	1860	0.26	9	1339	0.30	9	1275	0.28
10	1285	0.25	10	1272	0.30	10	1502	0.24
11	1312	0.25	11	1351	0.30	11	1342	0.28
12	1274	0.25	12	1417	0.30	12	1384	0.26
13	1324	0.26	13	1398	0.30	13	1249	0.23
14	1297	0.24	14	1430	0.34	14	1477	0.25
15	1317	0.25	15	1420	0.34	15	1340	0.22
16	1325	0.23	16	1249	0.34	16	1483	0.36
17	1367	0.24	17	1357	0.34	17	1508	0.33
18	1378	0.24	18	1787	0.34	18	1416	0.32
19	1394	0.24	19	1506	0.34	19	1742	0.31
20	1322	0.23	20	1647	0.34	20	1598	0.31
21	1301	0.23	21	1756	0.31	21	1569	0.31
22	1292	0.23	22	1621	0.31	22	1674	0.30
23	1296	0.26	23	1560	0.31	23	1671	0.31
24	1326	0.23	24	1554	0.31	24	1588	0.31
25	1209	0.26	25	2117	0.28	25	1602	0.31
26	1376	0.26	26	1840	0.28	26	1677	0.32
27	1455	0.25	27	1846	0.30	27	1731	0.32
28	1386	0.27	28	1561	0.32	28	1822	0.33
29	1658	0.26	29	1685	0.30	29	1589	0.32
30	1407	0.27	30	1580	0.29	30	1648	0.33
Monthly Total	42935		Monthly Total	44335		Monthly Total	44374	
Daily Average	1431	0.25	Daily Average	1478	0.30	Daily Average	1479	0.30

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
May			May			May		
1	1556	0.31	1	1541	0.25	1	1764	0.32
2	1366	0.30	2	1812	0.25	2	2008	0.33
3	2370	0.27	3	1623	0.25	3	1922	0.32
4	2143	0.25	4	1571	0.25	4	1907	0.34
5	2236	0.25	5	1529	0.29	5	2191	0.35
6	2077	0.28	6	1956	0.29	6	1976	0.34
7	2077	0.27	7	2018	0.28	7	1991	0.27
8	2053	0.26	8	1973	0.27	8	2269	0.26
9	2264	0.35	9	2275	0.25	9	1959	0.25
10	2501	0.28	10	2441	0.28	10	2370	0.26
11	2266	0.28	11	2493	0.28	11	2237	0.27
12	2468	0.27	12	2409	0.28	12	2398	0.28
13	2644	0.28	13	2527	0.30	13	2078	0.28
14	2464	0.26	14	2368	0.35	14	2444	0.29
15	2137	0.30	15	2470	0.33	15	2406	0.30
16	2423	0.30	16	2511	0.40	16	2540	0.29
17	2569	0.34	17	2365	0.25	17	2778	0.29
18	2067	0.30	18	2343	0.22	18	2102	0.30
19	2368	0.30	19	2510	0.25	19	2087	0.29
20	2449	0.28	20	2795	0.33	20	2005	0.28
21	2428	0.28	21	2452	0.28	21	2270	0.28
22	2426	0.34	22	2245	0.28	22	2610	0.28
23	2224	0.32	23	2344	0.27	23	2682	0.29
24	2568	0.30	24	2440	0.27	24	2547	0.30
25	2477	0.30	25	2548	0.27	25	2579	0.29
26	2409	0.28	26	2392	0.27	26	2588	0.31
27	2408	0.28	27	2573	0.27	27	2819	0.25
28	2547	0.30	28	2806	0.32	28	2291	0.26
29	2853	0.27	29	2841	0.35	29	2162	0.26
30	2741	0.28	30	2911	0.36	30	2644	0.27
31	3006	0.26	31	2664	0.33	31	2711	0.29
Monthly Total	72585		Monthly Total	71745		Monthly Total	71333	
Daily Average	2341	0.29	Daily Average	2314	0.29	Daily Average	2301	0.29

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
June			June			June		
1	3025	0.30	1	2254	0.44	1	1743	0.29
2	3199	0.30	2	2431	0.36	2	3183	0.29
3	3136	0.30	3	2376	0.36	3	3963	0.14
4	2774	0.28	4	2352	0.39	4	3043	0.26
5	2741	0.28	5	2440	0.30	5	2602	0.27
6	2434	0.27	6	2163	0.31	6	2628	0.28
7	2584	0.27	7	2962	0.34	7	2444	0.27
8	2280	0.26	8	2898	0.34	8	2474	0.27
9	2388	0.26	9	2483	0.34	9	2483	0.28
10	2980	0.25	10	2452	0.34	10	2464	0.29
11	2515	0.25	11	2472	0.35	11	2463	0.30
12	2827	0.24	12	2364	0.35	12	2603	0.32
13	3028	0.30	13	2127	0.35	13	2589	0.33
14	3375	0.31	14	2288	0.50	14	2284	0.32
15	3129	0.31	15	2388	0.50	15	2036	0.32
16	3130	0.31	16	2328	0.32	16	2135	0.33
17	3527	0.33	17	2574	0.27	17	2237	0.31
18	3129	0.30	18	3096	0.34	18	2979	0.33
19	2911	0.30	19	2990	0.36	19	2803	0.33
20	2831	0.27	20	3220	0.37	20	2741	0.34
21	2555	0.27	21	2573	0.35	21	3006	0.32
22	2745	0.27	22	2879	0.30	22	3464	0.29
23	2745	0.27	23	2720	0.37	23	3441	0.33
24	2745	0.27	24	2944	0.37	24	3825	0.33
25	2935	0.27	25	2323	0.35	25	3543	0.31
26	2778	0.28	26	2646	0.30	26	3603	0.32
27	2766	0.30	27	2836	0.32	27	3633	0.34
28	2620	0.30	28	2650	0.32	28	3846	0.28
29	2664	0.30	29	2518	0.32	29	4246	0.28
30	2664	0.30	30	2700	0.31	30	3911	0.26
Monthly Total	85160		Monthly Total	77450		Monthly Total	88414	
Daily Average	2839	0.28	Daily Average	2582	0.35	Daily Average	2947	0.30

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
July			July			July		
1	2664	0.30	1	2254	0.31	1	4253	0.40
2	2664	0.31	2	2402	0.31	2	4208	0.40
3	2708	0.31	3	2200	0.31	3	3611	0.37
4	2908	0.33	4	2262	0.31	4	3629	0.39
5	2792	0.29	5	2402	0.31	5	3768	0.41
6	2553	0.29	6	2349	0.31	6	3954	0.41
7	2553	0.29	7	2718	0.29	7	3991	0.41
8	2314	0.30	8	2906	0.31	8	3747	0.41
9	2490	0.27	9	2695	0.33	9	3708	0.41
10	2370	0.28	10	2585	0.34	10	3822	0.40
11	2303	0.28	11	2475	0.34	11	3757	0.42
12	2212	0.27	12	2803	0.34	12	3948	0.44
13	2575	0.28	13	2354	0.34	13	3866	0.37
14	2444	0.28	14	2462	0.24	14	4111	0.37
15	2641	0.27	15	2717	0.25	15	4070	0.35
16	2670	0.27	16	2730	0.29	16	4255	0.35
17	2402	0.29	17	2792	0.30	17	3920	0.34
18	2375	0.26	18	2735	0.30	18	3570	0.30
19	2272	0.29	19	2889	0.30	19	3522	0.33
20	2577	0.24	20	2981	0.33	20	3748	0.30
21	2726	0.28	21	3308	0.31	21	3724	0.34
22	2973	0.28	22	3485	0.29	22	3827	0.33
23	3104	0.30	23	3215	0.27	23	3797	0.35
24	2876	0.27	24	3107	0.30	24	1814	0.31
25	2728	0.31	25	3406	0.30	25	3566	0.32
26	2916	0.29	26	2903	0.30	26	3509	0.32
27	2076	0.25	27	3189	0.30	27	3717	0.34
28	2556	0.28	28	3731	0.29	28	3778	0.33
29	2920	0.27	29	3774	0.32	29	4127	0.34
30	3017	0.30	30	3356	0.26	30	3984	0.34
31	2671	0.31	31	3360	0.33	31	3872	0.34
Monthly Total	81050		Monthly Total	88547		Monthly Total	117172	
Daily Average	2615	0.29	Daily Average	2856	0.30	Daily Average	3780	0.36

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
August			August			August		
1	2699	0.30	1	3127	0.33	1	3359	0.34
2	2671	0.30	2	3318	0.33	2	3087	0.32
3	2404	0.27	3	3467	0.33	3	3403	0.33
4	2714	0.27	4	3473	0.36	4	3653	0.36
5	2998	0.27	5	3181	0.34	5	3917	0.35
6	3033	0.30	6	3441	0.34	6	3994	0.36
7	3007	0.30	7	2659	0.36	7	3314	0.30
8	3119	0.32	8	2585	0.36	8	2785	0.33
9	3412	0.32	9	3015	0.31	9	2629	0.35
10	3137	0.30	10	2769	0.33	10	2931	0.36
11	2928	0.30	11	3464	0.33	11	3125	0.36
12	2599	0.28	12	3068	0.32	12	3862	0.37
13	2540	0.25	13	3045	0.34	13	4264	0.37
14	2702	0.21	14	3350	0.37	14	3753	0.37
15	2759	0.26	15	3332	0.28	15	3523	0.37
16	3226	0.23	16	3688	0.36	16	3101	0.37
17	2973	0.20	17	3622	0.39	17	3061	0.37
18	2745	0.24	18	3012	0.32	18	2599	0.35
19	2945	0.26	19	3290	0.35	19	2858	0.35
20	3033	0.23	20	3241	0.34	20	3460	0.35
21	2701	0.21	21	2813	0.29	21	2574	0.35
22	2623	0.23	22	2660	0.29	22	2131	0.34
23	2972	0.20	23	2402	0.29	23	2455	0.34
24	2657	0.19	24	2422	0.34	24	2196	0.32
25	2637	0.18	25	2598	0.29	25	2525	0.31
26	2965	0.21	26	2514	0.34	26	2741	0.35
27	2993	0.22	27	2899	0.34	27	2748	0.34
28	2785	0.36	28	2780	0.31	28	2497	0.35
29	2782	0.30	29	2906	0.31	29	2644	0.35
30	3136	0.30	30	2728	0.31	30	2788	0.34
31	3003	0.29	31	2586	0.31	31	2595	0.34
Monthly Total	88898		Monthly Total	93457		Monthly Total	94573	
Daily Average	2868	0.26	Daily Average	3015	0.33	Daily Average	3051	0.35

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
September			September			September		
1	2698	0.27	1	2500	0.33	1	2420	0.33
2	2837	0.30	2	2504	0.33	2	2502	0.33
3	3062	0.30	3	2954	0.28	3	2682	0.33
4	2628	0.32	4	3031	0.27	4	2686	0.34
5	2480	0.31	5	2926	0.27	5	2317	0.33
6	2895	0.28	6	2629	0.27	6	2227	0.33
7	2733	0.25	7	2642	0.22	7	2479	0.33
8	2609	0.25	8	2629	0.25	8	2499	0.34
9	2509	0.29	9	2695	0.27	9	2253	0.34
10	2270	0.29	10	2737	0.28	10	2418	0.40
11	2262	0.28	11	2945	0.28	11	2302	0.34
12	2262	0.27	12	2794	0.28	12	2133	0.33
13	2333	0.26	13	2566	0.28	13	2317	0.32
14	1877	0.26	14	2473	0.28	14	2222	0.33
15	1928	0.26	15	2378	0.26	15	2079	0.32
16	1848	0.26	16	2062	0.27	16	1893	0.30
17	1782	0.28	17	2397	0.28	17	1863	0.30
18	1860	0.27	18	2388	0.28	18	1764	0.30
19	1887	0.26	19	2447	0.29	19	1622	0.30
20	1868	0.27	20	1849	0.27	20	1474	0.28
21	1816	0.27	21	1892	0.27	21	1462	0.28
22	1778	0.27	22	1816	0.26	22	1543	0.28
23	1649	0.28	23	1901	0.29	23	1589	0.28
24	1639	0.27	24	1820	0.28	24	1630	0.27
25	1751	0.25	25	1799	0.28	25	1474	0.27
26	1637	0.27	26	1856	0.28	26	1600	0.27
27	1522	0.28	27	1705	0.28	27	1444	0.26
28	1597	0.28	28	1509	0.28	28	1202	0.26
29	1555	0.28	29	1578	0.26	29	1324	0.26
30	1476	0.34	30	1706	0.25	30	1590	0.27
Monthly Total	63048		Monthly Total	69129		Monthly Total	59010	
Daily Average	2102	0.28	Daily Average	2304	0.28	Daily Average	1967	0.31

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
October			October			October		
1	1396	0.31	1	1565	0.23	1	2301	0.29
2	1535	0.32	2	1653	0.24	2	1356	0.29
3	1492	0.35	3	1614	0.25	3	1320	0.28
4	1452	0.33	4	1612	0.25	4	1356	0.27
5	1359	0.33	5	1628	0.25	5	1265	0.27
6	1324	0.33	6	1479	0.25	6	1301	0.27
7	1541	0.33	7	1475	0.25	7	1301	0.26
8	1318	0.31	8	1462	0.25	8	1230	0.26
9	1334	0.30	9	1470	0.25	9	1382	0.25
10	1349	0.30	10	1452	0.25	10	1244	0.26
11	1452	0.31	11	1444	0.25	11	1228	0.26
12	1398	0.31	12	1299	0.25	12	1279	0.25
13	1329	0.29	13	1460	0.25	13	1354	0.33
14	1352	0.29	14	1488	0.25	14	1235	0.40
15	1374	0.31	15	1285	0.22	15	1163	0.39
16	1393	0.34	16	1604	0.20	16	1165	0.37
17	1366	0.29	17	1429	0.22	17	1178	0.34
18	1349	0.29	18	1338	0.23	18	1170	0.31
19	1351	0.29	19	1386	0.23	19	1201	0.31
20	1321	0.29	20	1368	0.26	20	1270	0.31
21	1321	0.31	21	1364	0.28	21	1226	0.32
22	1207	0.30	22	1390	0.28	22	1278	0.31
23	1342	0.30	23	1619	0.26	23	1223	0.34
24	1378	0.31	24	1419	0.26	24	1130	0.32
25	1296	0.33	25	1388	0.26	25	1100	0.32
26	1329	0.32	26	1288	0.26	26	1156	0.31
27	1301	0.32	27	1284	0.22	27	1434	0.33
28	1328	0.32	28	1408	0.25	28	1370	0.31
29	1215	0.35	29	1174	0.25	29	1152	0.29
30	1284	0.30	30	1280	0.25	30	1231	0.31
31	1332	0.30	31	1290	0.25	31	1197	0.27
Monthly Total	42118		Monthly Total	44413		Monthly Total	39798	
Daily Average	1359	0.31	Daily Average	1433	0.25	Daily Average	1284	0.30

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
November			November			November		
1	1269	0.30	1	1324	0.25	1	1195	0.28
2	1312	0.30	2	1201	0.26	2	1381	0.28
4	1336	0.31	4	1397	0.27	4	1498	0.29
5	1338	0.30	5	1212	0.25	5	1085	0.28
6	1712	0.28	6	1284	0.22	6	1049	0.27
7	1316	0.33	7	1187	0.23	7	1195	0.27
8	1297	0.29	8	1374	0.23	8	1084	0.26
9	1265	0.29	9	1130	0.23	9	1212	0.27
10	1125	0.29	10	1369	0.21	10	1031	0.34
11	1289	0.29	11	1264	0.23	11	1288	0.35
12	1201	0.28	12	1195	0.26	12	1090	0.34
13	1284	0.29	13	1444	0.26	13	1048	0.35
14	1129	0.29	14	1154	0.30	14	1069	0.35
15	1131	0.29	15	1342	0.30	15	1109	0.34
16	1271	0.29	16	1306	0.30	16	1016	0.32
17	1267	0.29	17	1213	0.30	17	1193	0.33
18	1116	0.29	18	1300	0.30	18	1072	0.35
19	1301	0.30	19	1209	0.29	19	1121	0.33
20	1290	0.30	20	1230	0.28	20	1021	0.34
21	1178	0.29	21	1170	0.31	21	1051	0.34
22	1319	0.30	22	1323	0.28	22	1186	0.32
23	1281	0.30	23	1292	0.28	23	1039	0.30
24	1303	0.30	24	1204	0.29	24	1084	0.32
25	1203	0.32	25	1199	0.28	25	1043	0.31
26	1250	0.29	26	1253	0.28	26	963	0.31
27	1156	0.29	27	1296	0.27	27	1068	0.31
28	1253	0.30	28	1145	0.27	28	995	0.31
29	1275	0.27	29	1179	0.27	29	1173	0.32
30			30	1297	0.27	30	1078	0.32
Monthly Total	35467		Monthly Total	36495		Monthly Total	32438	
Daily Average	1270	0.30	Daily Average	1264	0.27	Daily Average	1124	0.31

2019 Daily Total Consumption and Chlorine Residual			2020 Daily Total Consumption and Chlorine Residual			2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2	Date	Daily	Daily Cl2	Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)		Cubic metre	Residual (ppm)
December			December			December		
1	1318	0.26	1	1291	0.27	1	920	0.33
2	1319	0.28	2	1191	0.27	2	1051	0.35
3	1286	0.28	3	1214	0.26	3	1054	0.34
4	1371	0.30	4	1144	0.26	4	843	0.35
5	1135	0.30	5	1200	0.26	5	972	0.33
6	1253	0.28	6	1224	0.26	6	1032	0.33
7	1136	0.29	7	1244	0.26	7	995	0.37
8	1279	0.30	8	1319	0.24	8	1148	0.38
9	1281	0.30	9	1244	0.25	9	969	0.43
10	1113	0.30	10	1200	0.25	10	1042	0.34
11	1266	0.33	11	1204	0.24	11	1050	0.35
12	1163	0.31	12	1342	0.25	12	1022	0.35
13	1250	0.31	13	1119	0.25	13	1015	0.34
14	1130	0.30	14	1317	0.25	14	1163	0.39
15	1264	0.32	15	1069	0.23	15	1015	0.32
16	1220	0.32	16	1535	0.21	16	1046	0.35
17	1159	0.33	17	1038	0.19	17	1134	0.34
18	1288	0.32	18	1063	0.18	18	1063	0.33
19	1126	0.32	19	1163	0.19	19	1054	0.32
20	1256	0.31	20	1170	0.19	20	1200	0.32
21	1282	0.32	21	1048	0.19	21	1140	0.33
22	1121	0.35	22	1429	0.19	22	1145	0.34
23	1284	0.34	23	1187	0.18	23	1137	0.35
24	1261	0.33	24	1071	0.18	24	1086	0.34
25	1178	0.34	25	1174	0.18	25	1287	0.34
26	1251	0.34	26	1074	0.18	26	1189	0.32
27	1131	0.34	27	1074	0.18	27	1192	0.31
28	1264	0.29	28	1111	0.14	28	1250	0.30
29	1302	0.16	29	1203	0.19	29	1253	0.30
30	1308	0.08	30	1172	0.19	30	1271	0.29
31	1316	0.14	31	1163	0.14	31	1235	0.30
Monthly Total	38311		Monthly Total	36995		Monthly Total	33972	
Daily Average	1236	0.29	Daily Average	1193	0.22	Daily Average	1096	0.34

2019 Daily Total Consumption and Chlorine Residual				2020 Daily Total Consumption and Chlorine Residual				2021 Daily Total Consumption and Chlorine Residual		
Date	Daily	Daily Cl2		Date	Daily	Daily Cl2		Date	Daily	Daily Cl2
	Cubic metre	Residual (ppm)			Cubic metre	Residual (ppm)			Cubic metre	Residual (ppm)
2019 Total m3	667,727		0	2020 Total m3	676,900		0	2021 Total m3	701,290	
Daily Average	1,838	0.28		Daily Average	1,855	0.29		Daily Average	1,916	0.31
Max Day	3,527	0.36		Max Day	3,774	0.50		Max Day	4,264	0.44
Min Day	1,067	0.08		Min Day	1,038	0.14		Min Day	843	0.13



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APPENDIX II

2021 Annual Chemical Analysis of Drinking Water



Your C.O.C. #: 628486-02-01

Attention: Jeff Westlake

VILLAGE OF PEMBERTON
 Box 100
 7400 Prospect St
 Pemberton, BC
 CANADA V0N 2L0

Report Date: 2021/01/27

Report #: R2980989

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C104131

Received: 2021/01/21, 08:10

Sample Matrix: Drinking Water
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	3	N/A	2021/01/25	AB SOP-00005	SM 23 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	2	N/A	2021/01/26	AB SOP-00005	SM 23 2320 B m
Chloride/Sulphate by Auto Colourimetry (1)	3	N/A	2021/01/24	AB SOP-00020	SM23-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	1	N/A	2021/01/25	AB SOP-00020	SM23-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	1	N/A	2021/01/27	AB SOP-00020	SM23-4500-Cl/SO4-E m
Colour (True) by Kone Lab	5	N/A	2021/01/21	BBY6SOP-00057	SM 23 2120 C m
Conductivity @25C (1)	3	N/A	2021/01/25	AB SOP-00005	SM 23 2510 B m
Conductivity @25C (1)	2	N/A	2021/01/26	AB SOP-00005	SM 23 2510 B m
Fluoride	5	N/A	2021/01/21	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (2)	5	N/A	2021/01/25	BBY WI-00033	Auto Calc
Mercury (Total) by CV	5	2021/01/22	2021/01/22	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2021/01/25	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	5	N/A	2021/01/23	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Nitrate + Nitrite (N)	5	N/A	2021/01/21	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	5	N/A	2021/01/21	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	2	N/A	2021/01/21	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	3	N/A	2021/01/22	BBY WI-00033	Auto Calc
pH @25°C (1, 3)	3	N/A	2021/01/25	AB SOP-00005	SM 23 4500-H+B m
pH @25°C (1, 3)	2	N/A	2021/01/26	AB SOP-00005	SM 23 4500-H+B m
Total Dissolved Solids (Filt. Residue)	2	2021/01/22	2021/01/25	BBY6SOP-00033	SM 23 2540 C m
Total Dissolved Solids (Filt. Residue)	3	2021/01/26	2021/01/27	BBY6SOP-00033	SM 23 2540 C m
Turbidity	5	N/A	2021/01/21	BBY6SOP-00027	SM 23 2130 B m
VOCs, VH, F1, LH in Water by HS GC/MS	4	N/A	2021/01/23	BBY8SOP-00009 / BBY8SOP-00011 / BBY8SOP-00012	BCMOE BCLM Jul2017 m
Volatile HC-BTEX (4)	4	N/A	2021/01/24	BBY WI-00033	Auto Calc

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.



Your C.O.C. #: 628486-02-01

Attention: Jeff Westlake

VILLAGE OF PEMBERTON
Box 100
7400 Prospect St
Pemberton, BC
CANADA VON 2L0

Report Date: 2021/01/27
Report #: R2980989
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C104131

Received: 2021/01/21, 08:10

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by BV Labs Calgary Environmental
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.
- (4) VPH = VH - (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bureauveritas.com

Phone# (604) 734 7276

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RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

BV Labs ID					ZE5916		ZE5917		
Sampling Date					2021/01/20 08:30		2021/01/20 09:00		
COC Number					628486-02-01		628486-02-01		
	UNITS	MAC	AO	OG	WELL #2	QC Batch	WELL #3	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	A138729	<0.0050	0.0050	A138729
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	68.8	A138151	18.2	0.50	A138151
Nitrate (N)	mg/L	10	-	-	0.229	A138255	0.171	0.020	A138255
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	230	A141184	58	2.0	A141212
pH	pH	-	-	7.0:10.5	6.16	A141183	5.95	N/A	A141211
Total Dissolved Solids	mg/L	-	-	-	150	A139283	48	10	A139283
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	A141182	<1.0	1.0	A141210
Alkalinity (Total as CaCO3)	mg/L	-	-	-	71	A141182	11	1.0	A141210
Bicarbonate (HCO3)	mg/L	-	-	-	87	A141182	14	1.0	A141210
Carbonate (CO3)	mg/L	-	-	-	<1.0	A141182	<1.0	1.0	A141210
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	A138726	<0.050	0.050	A138726
Hydroxide (OH)	mg/L	-	-	-	<1.0	A141182	<1.0	1.0	A141210
Dissolved Chloride (Cl)	mg/L	-	250	-	30	A142826	3.8	1.0	A140347
Dissolved Sulphate (SO4)	mg/L	-	500	-	18	A142826	6.9	1.0	A140347
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	<5.0	A138790	<5.0	5.0	A138790
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.229	A138723	0.171	0.020	A138723
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.51	A138465	0.16	0.10	A138465
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
N/A = Not Applicable									



RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

BV Labs ID					ZE5918		ZE5919		
Sampling Date					2021/01/20 09:30		2021/01/20 10:00		
COC Number					628486-02-01		628486-02-01		
	UNITS	MAC	AO	OG	OAK ST	QC Batch	INDUSTRIAL PARK	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	A138732	<0.0050	0.0050	A138732
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	30.2	A138151	27.4	0.50	A138151
Nitrate (N)	mg/L	10	-	-	0.198	A138255	0.047	0.020	A138255
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	180	A141184	70	2.0	A141212
pH	pH	-	-	7.0:10.5	6.37	A141183	6.09	N/A	A141211
Total Dissolved Solids	mg/L	-	-	-	110	A142206	44	10	A142206
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	A141182	<1.0	1.0	A141210
Alkalinity (Total as CaCO3)	mg/L	-	-	-	71	A141182	28	1.0	A141210
Bicarbonate (HCO3)	mg/L	-	-	-	86	A141182	35	1.0	A141210
Carbonate (CO3)	mg/L	-	-	-	<1.0	A141182	<1.0	1.0	A141210
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	A138726	<0.050	0.050	A138726
Hydroxide (OH)	mg/L	-	-	-	<1.0	A141182	<1.0	1.0	A141210
Dissolved Chloride (Cl)	mg/L	-	250	-	12	A140347	1.0	1.0	A140347
Dissolved Sulphate (SO4)	mg/L	-	500	-	9.9	A140347	8.1	1.0	A140347
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	<5.0	A138790	<5.0	5.0	A138790
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.198	A138730	0.047	0.020	A138730
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.31	A138465	0.22	0.10	A138465
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
N/A = Not Applicable									



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BV Labs Job #: C104131
Report Date: 2021/01/27

VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (DRINKING WATER)

BV Labs ID			ZE5916	ZE5917	ZE5918	ZE5919	ZE5920		
Sampling Date			2021/01/20 08:30	2021/01/20 09:00	2021/01/20 09:30	2021/01/20 10:00	2021/01/20 10:30		
COC Number			628486-02-01	628486-02-01	628486-02-01	628486-02-01	628486-02-01		
	UNITS	MAC	WELL #2	WELL #3	OAK ST	INDUSTRIAL PARK	(SHE)IRRIGATION	RDL	QC Batch

Elements									
Total Mercury (Hg)	ug/L	1	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	A139484
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

BV Labs ID					ZE5916	ZE5917	ZE5918	ZE5919		
Sampling Date					2021/01/20 08:30	2021/01/20 09:00	2021/01/20 09:30	2021/01/20 10:00		
COC Number					628486-02-01	628486-02-01	628486-02-01	628486-02-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	OAK ST	INDUSTRIAL PARK	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	-	-	100	5.5	23.0	5.9	<3.0	3.0	A139082
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139082
Total Arsenic (As)	ug/L	10	-	-	0.10	<0.10	<0.10	0.11	0.10	A139082
Total Barium (Ba)	ug/L	2000	-	-	40.8	12.0	17.9	5.6	1.0	A139082
Total Boron (B)	ug/L	5000	-	-	92	<50	<50	<50	50	A139082
Total Cadmium (Cd)	ug/L	7	-	-	0.020	0.024	0.011	<0.010	0.010	A139082
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139082
Total Cobalt (Co)	ug/L	-	-	-	0.40	<0.20	<0.20	<0.20	0.20	A139082
Total Copper (Cu)	ug/L	2000	1000	-	0.90	3.80	2.57	2.05	0.20	A139082
Total Iron (Fe)	ug/L	-	300	-	211	27.4	38.7	6.4	5.0	A139082
Total Lead (Pb)	ug/L	5	-	-	<0.20	0.33	<0.20	<0.20	0.20	A139082
Total Manganese (Mn)	ug/L	120	20	-	161	3.9	15.9	<1.0	1.0	A139082
Total Molybdenum (Mo)	ug/L	-	-	-	1.7	<1.0	<1.0	<1.0	1.0	A139082
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139082
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	A139082
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	<0.020	<0.020	0.020	A139082
Total Strontium (Sr)	ug/L	7000	-	-	144	35.5	63.1	29.7	1.0	A139082
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	A139082
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	A139082
Total Zinc (Zn)	ug/L	-	5000	-	10.4	<5.0	<5.0	<5.0	5.0	A139082
Total Calcium (Ca)	mg/L	-	-	-	24.8	6.69	11.0	9.57	0.050	A138254
Total Magnesium (Mg)	mg/L	-	-	-	1.67	0.358	0.652	0.844	0.050	A138254
Total Potassium (K)	mg/L	-	-	-	2.17	0.730	1.11	0.522	0.050	A138254
Total Sodium (Na)	mg/L	-	200	-	11.3	2.57	25.2	1.43	0.050	A138254
Total Sulphur (S)	mg/L	-	-	-	6.3	<3.0	3.4	3.3	3.0	A138254
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										



CSR VOC + VPH IN WATER (DRINKING WATER)

BV Labs ID				ZE5916	ZE5917	ZE5918	ZE5919		
Sampling Date				2021/01/20 08:30	2021/01/20 09:00	2021/01/20 09:30	2021/01/20 10:00		
COC Number				628486-02-01	628486-02-01	628486-02-01	628486-02-01		
	UNITS	MAC	AO	WELL #2	WELL #3	OAK ST	INDUSTRIAL PARK	RDL	QC Batch

Calculated Parameters									
VPH (VH6 to 10 - BTEX)	ug/L	-	-	<300	<300	<300	<300	300	A138225
Volatiles									
VH C6-C10	ug/L	-	-	<300	<300	<300	<300	300	A139229
1,1,1,2-tetrachloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,1,1-trichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,1,2,2-tetrachloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	A139229
1,1,2-trichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,1-dichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,1-dichloroethene	ug/L	14	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,2-dichlorobenzene	ug/L	200	3	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,2-dichloroethane	ug/L	5	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,2-dichloropropane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,3-Butadiene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,3-dichlorobenzene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
1,4-dichlorobenzene	ug/L	5	1	<0.50	<0.50	<0.50	<0.50	0.50	A139229
Benzene	ug/L	5	-	<0.40	<0.40	<0.40	<0.40	0.40	A139229
Bromobenzene	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	A139229
Bromodichloromethane	ug/L	-	-	<1.0	<1.0	1.3	<1.0	1.0	A139229
Bromoform	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
Bromomethane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
Carbon tetrachloride	ug/L	2	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
Chlorobenzene	ug/L	80	30	<0.50	<0.50	<0.50	<0.50	0.50	A139229
Chlorodibromomethane	ug/L	-	-	<1.0	<1.0	1.5	<1.0	1.0	A139229
Chloroethane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
Chloroform	ug/L	-	-	<1.0	<1.0	<1.0	1.4	1.0	A139229
Chloromethane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
cis-1,2-dichloroethene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
cis-1,3-dichloropropene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
Dibromomethane	ug/L	-	-	<0.90	<0.90	<0.90	<0.90	0.90	A139229
Dichlorodifluoromethane	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	A139229
Dichloromethane	ug/L	50	-	<2.0	<2.0	<2.0	<2.0	2.0	A139229
Ethylbenzene	ug/L	140	1.6	<0.40	<0.40	<0.40	<0.40	0.40	A139229
Methyl-tert-butylether (MTBE)	ug/L	-	15	<4.0	<4.0	<4.0	<4.0	4.0	A139229

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit



CSR VOC + VPH IN WATER (DRINKING WATER)

BV Labs ID				ZE5916	ZE5917	ZE5918	ZE5919		
Sampling Date				2021/01/20 08:30	2021/01/20 09:00	2021/01/20 09:30	2021/01/20 10:00		
COC Number				628486-02-01	628486-02-01	628486-02-01	628486-02-01		
	UNITS	MAC	AO	WELL #2	WELL #3	OAK ST	INDUSTRIAL PARK	RDL	QC Batch
Styrene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
Tetrachloroethene	ug/L	10	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
Toluene	ug/L	60	24	<0.40	<0.40	<0.40	<0.40	0.40	A139229
trans-1,2-dichloroethene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
trans-1,3-dichloropropene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	A139229
Trichloroethene	ug/L	5	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
Trichlorofluoromethane	ug/L	-	-	<4.0	<4.0	<4.0	<4.0	4.0	A139229
Vinyl chloride	ug/L	2	-	<0.50	<0.50	<0.50	<0.50	0.50	A139229
m & p-Xylene	ug/L	-	-	<0.40	<0.40	<0.40	<0.40	0.40	A139229
o-Xylene	ug/L	-	-	<0.40	<0.40	<0.40	<0.40	0.40	A139229
Xylenes (Total)	ug/L	90	20	<0.40	<0.40	<0.40	<0.40	0.40	A139229
Surrogate Recovery (%)									
1,4-Difluorobenzene (sur.)	%	-	-	105	105	106	106		A139229
4-Bromofluorobenzene (sur.)	%	-	-	96	94	95	95		A139229
D4-1,2-Dichloroethane (sur.)	%	-	-	96	94	95	94		A139229
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									



GENERAL COMMENTS

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, September 2020.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

Results relate only to the items tested.



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VERITAS

BV Labs Job #: C104131

Report Date: 2021/01/27

QUALITY ASSURANCE REPORT

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A139229	1,4-Difluorobenzene (sur.)	2021/01/22	102	50 - 140	102	50 - 140	105	%		
A139229	4-Bromofluorobenzene (sur.)	2021/01/22	118	50 - 140	118	50 - 140	91	%		
A139229	D4-1,2-Dichloroethane (sur.)	2021/01/22	99	50 - 140	101	50 - 140	94	%		
A138465	Turbidity	2021/01/21			98	80 - 120	<0.10	NTU	5.8	20
A138638	Dissolved Fluoride (F)	2021/01/21	96	80 - 120	106	80 - 120	<0.050	mg/L	0	20
A138723	Nitrate plus Nitrite (N)	2021/01/21	103	80 - 120	112	80 - 120	<0.020	mg/L	0.13	25
A138726	Dissolved Fluoride (F)	2021/01/21	106	80 - 120	106	80 - 120	<0.050	mg/L	0	20
A138729	Nitrite (N)	2021/01/21	99	80 - 120	103	80 - 120	<0.0050	mg/L	NC	20
A138730	Nitrate plus Nitrite (N)	2021/01/21			112	80 - 120	<0.020	mg/L		
A138732	Nitrite (N)	2021/01/21			102	80 - 120	<0.0050	mg/L		
A138790	True Colour	2021/01/21			96	80 - 120	<5.0	Col. Unit	NC	20
A139082	Total Aluminum (Al)	2021/01/23	104	80 - 120	104	80 - 120	<3.0	ug/L		
A139082	Total Antimony (Sb)	2021/01/23	102	80 - 120	100	80 - 120	<0.50	ug/L		
A139082	Total Arsenic (As)	2021/01/23	103	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
A139082	Total Barium (Ba)	2021/01/23	102	80 - 120	101	80 - 120	<1.0	ug/L		
A139082	Total Boron (B)	2021/01/23	NC	80 - 120	102	80 - 120	<50	ug/L		
A139082	Total Cadmium (Cd)	2021/01/23	101	80 - 120	100	80 - 120	<0.010	ug/L		
A139082	Total Chromium (Cr)	2021/01/23	100	80 - 120	101	80 - 120	<1.0	ug/L		
A139082	Total Cobalt (Co)	2021/01/23	99	80 - 120	101	80 - 120	<0.20	ug/L		
A139082	Total Copper (Cu)	2021/01/23	97	80 - 120	99	80 - 120	<0.20	ug/L		
A139082	Total Iron (Fe)	2021/01/23	104	80 - 120	107	80 - 120	<5.0	ug/L		
A139082	Total Lead (Pb)	2021/01/23	104	80 - 120	104	80 - 120	<0.20	ug/L		
A139082	Total Manganese (Mn)	2021/01/23	99	80 - 120	101	80 - 120	<1.0	ug/L		
A139082	Total Molybdenum (Mo)	2021/01/23	104	80 - 120	103	80 - 120	<1.0	ug/L		
A139082	Total Nickel (Ni)	2021/01/23	99	80 - 120	100	80 - 120	<1.0	ug/L		
A139082	Total Selenium (Se)	2021/01/23	106	80 - 120	105	80 - 120	<0.10	ug/L		
A139082	Total Silver (Ag)	2021/01/23	99	80 - 120	100	80 - 120	<0.020	ug/L		
A139082	Total Strontium (Sr)	2021/01/23	104	80 - 120	102	80 - 120	<1.0	ug/L		
A139082	Total Uranium (U)	2021/01/23	107	80 - 120	106	80 - 120	<0.10	ug/L		
A139082	Total Vanadium (V)	2021/01/23	103	80 - 120	102	80 - 120	<5.0	ug/L		
A139082	Total Zinc (Zn)	2021/01/23	101	80 - 120	101	80 - 120	<5.0	ug/L		
A139229	1,1,1,2-tetrachloroethane	2021/01/22	101	50 - 140	102	60 - 130	<0.50	ug/L	NC	30
A139229	1,1,1-trichloroethane	2021/01/22	102	50 - 140	105	60 - 130	<0.50	ug/L	NC	30
A139229	1,1,2,2-tetrachloroethane	2021/01/22	82	50 - 140	84	60 - 130	<0.50	ug/L	NC	30



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BV Labs Job #: C104131

Report Date: 2021/01/27

QUALITY ASSURANCE REPORT(CONT'D)

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A139229	1,1,2Trichloro-1,2,2Trifluoroethane	2021/01/22	100	50 - 140	102	60 - 130	<2.0	ug/L	NC	30
A139229	1,1,2-trichloroethane	2021/01/22	91	50 - 140	94	60 - 130	<0.50	ug/L	NC	30
A139229	1,1-dichloroethane	2021/01/22	88	50 - 140	90	60 - 130	<0.50	ug/L	NC	30
A139229	1,1-dichloroethene	2021/01/22	91	50 - 140	93	60 - 130	<0.50	ug/L	NC	30
A139229	1,2-dichlorobenzene	2021/01/22	105	50 - 140	108	60 - 130	<0.50	ug/L	NC	30
A139229	1,2-dichloroethane	2021/01/22	89	50 - 140	90	60 - 130	<0.50	ug/L	11	30
A139229	1,2-dichloropropane	2021/01/22	84	50 - 140	85	60 - 130	<0.50	ug/L	NC	30
A139229	1,3-Butadiene	2021/01/22	81	50 - 140	85	50 - 140	<0.50	ug/L	NC	30
A139229	1,3-dichlorobenzene	2021/01/22	111	50 - 140	113	60 - 130	<0.50	ug/L	NC	30
A139229	1,4-dichlorobenzene	2021/01/22	99	50 - 140	103	60 - 130	<0.50	ug/L	NC	30
A139229	Benzene	2021/01/22	93	50 - 140	91	60 - 130	<0.40	ug/L	1.2	30
A139229	Bromobenzene	2021/01/22	101	50 - 140	102	60 - 130	<2.0	ug/L	NC	30
A139229	Bromodichloromethane	2021/01/22	95	50 - 140	93	60 - 130	<1.0	ug/L	NC	30
A139229	Bromoform	2021/01/22	95	50 - 140	96	60 - 130	<1.0	ug/L	NC	30
A139229	Bromomethane	2021/01/22	116	50 - 140	122	50 - 140	<1.0	ug/L	NC	30
A139229	Carbon tetrachloride	2021/01/22	107	50 - 140	108	60 - 130	<0.50	ug/L	NC	30
A139229	Chlorobenzene	2021/01/22	101	50 - 140	100	60 - 130	<0.50	ug/L	NC	30
A139229	Chlorodibromomethane	2021/01/22	101	50 - 140	101	60 - 130	<1.0	ug/L	NC	30
A139229	Chloroethane	2021/01/22	107	50 - 140	111	50 - 140	<1.0	ug/L	NC	30
A139229	Chloroform	2021/01/22	89	50 - 140	94	60 - 130	<1.0	ug/L	NC	30
A139229	Chloromethane	2021/01/22	77	50 - 140	81	50 - 140	<1.0	ug/L	NC	30
A139229	cis-1,2-dichloroethene	2021/01/22	97	50 - 140	97	60 - 130	<1.0	ug/L	NC	30
A139229	cis-1,3-dichloropropene	2021/01/22	91	50 - 140	93	50 - 140	<1.0	ug/L	NC	30
A139229	Dibromomethane	2021/01/22	107	50 - 140	108	60 - 130	<0.90	ug/L		
A139229	Dichlorodifluoromethane	2021/01/22	113	50 - 140	122	50 - 140	<2.0	ug/L	NC	30
A139229	Dichloromethane	2021/01/22	88	50 - 140	89	60 - 130	<2.0	ug/L	NC	30
A139229	Ethylbenzene	2021/01/22	NC	50 - 140	109	60 - 130	<0.40	ug/L	2.2	30
A139229	m & p-Xylene	2021/01/22	NC	50 - 140	117	60 - 130	<0.40	ug/L	2.3	30
A139229	Methyl-tert-butylether (MTBE)	2021/01/22	90	50 - 140	90	60 - 130	<4.0	ug/L	NC	30
A139229	o-Xylene	2021/01/22	114	50 - 140	111	60 - 130	<0.40	ug/L	22	30
A139229	Styrene	2021/01/22	93	50 - 140	92	60 - 130	<0.50	ug/L	NC	30
A139229	Tetrachloroethene	2021/01/22	108	50 - 140	109	60 - 130	<0.50	ug/L	NC	30
A139229	Toluene	2021/01/22	103	50 - 140	100	60 - 130	<0.40	ug/L	1.4	30
A139229	trans-1,2-dichloroethene	2021/01/22	93	50 - 140	95	60 - 130	<1.0	ug/L	NC	30



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QUALITY ASSURANCE REPORT(CONT'D)

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A139229	trans-1,3-dichloropropene	2021/01/22	74	50 - 140	71	50 - 140	<1.0	ug/L	NC	30
A139229	Trichloroethene	2021/01/22	98	50 - 140	100	60 - 130	<0.50	ug/L	NC	30
A139229	Trichlorofluoromethane	2021/01/22	113	50 - 140	115	60 - 130	<4.0	ug/L	NC	30
A139229	VH C6-C10	2021/01/22			90	70 - 130	<300	ug/L	2.4	30
A139229	Vinyl chloride	2021/01/22	85	50 - 140	90	50 - 140	<0.50	ug/L	NC	30
A139229	Xylenes (Total)	2021/01/22					<0.40	ug/L	2.1	30
A139283	Total Dissolved Solids	2021/01/25	96	80 - 120	106	80 - 120	<10	mg/L	15	20
A139484	Total Mercury (Hg)	2021/01/22	106	80 - 120	101	80 - 120	<0.0019	ug/L	NC	20
A140347	Dissolved Chloride (Cl)	2021/01/24	108	80 - 120	107	80 - 120	<1.0	mg/L	1.2	20
A140347	Dissolved Sulphate (SO4)	2021/01/24	117	80 - 120	106	80 - 120	<1.0	mg/L	3.2	20
A140986	Dissolved Chloride (Cl)	2021/01/25	51 (1)	80 - 120	99	80 - 120	<1.0	mg/L	2.2	20
A140986	Dissolved Sulphate (SO4)	2021/01/25	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.75	20
A141182	Alkalinity (PP as CaCO3)	2021/01/25					<1.0	mg/L	NC	20
A141182	Alkalinity (Total as CaCO3)	2021/01/25			98	80 - 120	<1.0	mg/L	0.0021	20
A141182	Bicarbonate (HCO3)	2021/01/25					<1.0	mg/L	0.0021	20
A141182	Carbonate (CO3)	2021/01/25					<1.0	mg/L	NC	20
A141182	Hydroxide (OH)	2021/01/25					<1.0	mg/L	NC	20
A141183	pH	2021/01/25			101	97 - 103			2.4	N/A
A141184	Conductivity	2021/01/25			105	90 - 110	<2.0	uS/cm	0	10
A141210	Alkalinity (PP as CaCO3)	2021/01/26					<1.0	mg/L	NC	20
A141210	Alkalinity (Total as CaCO3)	2021/01/26			99	80 - 120	<1.0	mg/L	5.9	20
A141210	Bicarbonate (HCO3)	2021/01/26					<1.0	mg/L	5.9	20
A141210	Carbonate (CO3)	2021/01/26					<1.0	mg/L	NC	20
A141210	Hydroxide (OH)	2021/01/26					<1.0	mg/L	NC	20
A141211	pH	2021/01/26			101	97 - 103			0.56	N/A
A141212	Conductivity	2021/01/26			106	90 - 110	<2.0	uS/cm	0.21	10
A142206	Total Dissolved Solids	2021/01/27	106	80 - 120	105	80 - 120	<10	mg/L	11	20
A142826	Dissolved Chloride (Cl)	2021/01/27	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.0020	20



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VERITAS

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QUALITY ASSURANCE REPORT(CONT'D)

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A142826	Dissolved Sulphate (SO4)	2021/01/27	102	80 - 120	102	80 - 120	<1.0	mg/L	0.30	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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APPENDIX III

2021 Weekly Water Quality Sampling Results

Appendix III

Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
4-Jan-21				
Pemberton				
Health Centre	0.23	6.86	9.80	83.00
Oak St	0.26	6.90	8.10	82.00
Plateau/Ridge	0.10	6.80	6.00	95.00
Village Office	0.29	6.90	6.70	92.00
WWTP	0.05	6.90	5.30	95.00
Collins Rd	0.25	6.81	9.40	85.00
PNWS - Meadows Rd *	0.24	6.81	7.60	74.00
PNWS - Farm Rd *	0.24	6.80	9.70	75.00
PNWS - Urdal Rd *				
Pemberton Total	0.21	6.85	7.83	85.13
5-Jan-21				
Industrial Park **	0.00	6.86	10.20	23.00
11-Jan-21				
Pemberton				
Health Centre	0.22	7.05	10.20	67.00
Oak St	0.28	7.06	6.80	65.00
Plateau/Ridge	0.10	6.82	8.70	78.00
Village Office	0.20	6.96	6.90	72.00
WWTP	0.05	6.89	12.80	71.00
Collins Rd				
PNWS - Meadows Rd *	0.26	6.96	6.70	69.00
PNWS - Farm Rd *	0.22	6.99	6.70	72.00
PNWS - Urdal Rd *	0.26	7.00	6.60	72.00
Pemberton Total	0.20	6.97	8.18	70.75
Industrial Park **	0.08	7.00	6.90	22.00
18-Jan-21				
Pemberton				
Health Centre	0.34	7.17	10.30	65.00
Oak St	0.34	7.12	6.60	76.00
Plateau/Ridge	0.16	7.07	7.30	81.00
Village Office	0.36	7.14	7.10	75.00
WWTP	0.02	7.11	6.30	82.00
Collins Rd				
PNWS - Meadows Rd *	0.29	7.18	7.90	76.00
PNWS - Farm Rd *	0.32	7.13	6.10	78.00
PNWS - Urdal Rd *				
Pemberton Total	0.26	7.13	7.37	76.14
Industrial Park **	0.15	7.06	6.70	24.00
26-Jan-21				
Pemberton				
Health Centre	0.26	6.98	7.80	86.00
Oak St	0.26	6.96	9.40	87.00
Plateau/Ridge	0.12	6.98	78.00	82.00

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Village Office	0.27	6.97	6.20	95.00
WWTP	0.27	7.12	6.70	83.00
Collins Rd				
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
PNWS - Urdal Rd *				
Pemberton Total	0.24	7.00	21.62	86.60
Industrial Park **	0.20	7.18	5.70	23.00
2-Feb-21				
Pemberton				
Health Centre	0.22	6.53	7.40	56.00
Oak St	0.24	6.55	5.90	56.00
Plateau/Ridge	0.15	6.61	6.90	62.00
Village Office	0.25	6.58	7.70	51.00
WWTP	0.12	6.58	7.10	55.00
Collins Rd				
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
PNWS - Urdal Rd *				
Pemberton Total	0.20	6.57	7.00	56.00
Industrial Park **	0.05	6.80	6.20	23.00
8-Feb-21				
Pemberton				
Health Centre	0.29	7.00	8.30	72.00
Oak St	0.29	7.03	6.90	73.00
Plateau/Ridge	0.11	6.95	6.90	56.00
Village Office	0.27	7.01	7.20	72.00
WWTP	0.30	6.92	4.60	72.00
Collins Rd				
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
PNWS - Urdal Rd *				
Pemberton Total	0.25	6.98	6.78	69.00
Industrial Park **	0.04	7.01	6.50	26.00
16-Feb-21				
Pemberton				
Health Centre	0.27	7.08	6.40	68.00
Oak St	0.30	7.05	6.30	69.00
Plateau/Ridge	0.33	7.08	5.40	69.00
Village Office	0.25	7.09	6.10	66.00
WWTP	0.05	6.95	6.10	64.00
Collins Rd				
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
PNWS - Urdal Rd *				

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Pemberton Total	0.24	7.05	6.06	67.20
Industrial Park **	0.14	6.95	6.10	25.00
22-Feb-21				
Pemberton				
Health Centre	0.13	7.14	7.20	64.00
Oak St	0.28	7.16	4.80	64.00
Plateau/Ridge	0.19	7.14	5.40	64.00
Village Office	0.29	7.10	6.40	72.00
WWTP	0.19	7.18	5.90	62.00
Collins Rd	0.25	7.15	5.90	71.00
PNWS - Meadows Rd *	0.31	7.15	4.50	66.00
PNWS - Farm Rd *	0.45	7.15	5.80	63.00
PNWS - Urdal Rd *	0.28	7.14	5.10	82.00
Pemberton Total	0.26	7.15	5.67	67.56
Industrial Park **	0.16	7.04	5.20	25.00
1-Mar-21				
Pemberton				
Health Centre	0.34	7.00	8.30	62.00
Oak St	0.40	6.98	8.90	65.00
Plateau/Ridge	0.26	7.00	7.60	63.00
Village Office	0.34	6.98	7.40	66.00
WWTP	0.17	7.08	6.80	92.00
Collins Rd	0.35	7.00	7.50	64.00
PNWS - Meadows Rd *	0.25	6.98	8.20	55.00
PNWS - Farm Rd *	0.29	7.00	7.30	62.00
PNWS - Urdal Rd *	0.36	6.99	6.80	54.00
Pemberton Total	0.31	7.00	7.64	64.78
Industrial Park **	0.06	7.01	6.80	22.00
8-Mar-21				
Pemberton				
Health Centre	0.27	7.06	9.30	64.00
Oak St	0.26	6.97	11.30	60.00
Plateau/Ridge	0.31	7.03	7.50	56.00
Village Office	0.20	7.08	7.30	72.00
WWTP	0.12	6.99	7.70	70.00
Collins Rd	0.27	7.05	8.50	72.00
PNWS - Meadows Rd *	0.30	7.03	7.20	74.00
PNWS - Farm Rd *	0.29	7.02	8.30	70.00
PNWS - Urdal Rd *				
Pemberton Total	0.25	7.03	8.39	67.25
Industrial Park **	0.09	7.00	7.20	23.00
15-Mar-21				
Pemberton				
Health Centre	0.40	7.07	9.40	66.00
Oak St	0.38	7.00	9.30	58.00

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 Village of Pemberton Water System
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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Plateau/Ridge	0.27	7.03	8.80	61.00
Village Office	0.33	7.03	6.40	63.00
WWTP	0.19	7.09	6.70	64.00
Collins Rd	0.38	7.03	8.30	58.00
PNWS - Meadows Rd *	0.29	7.03	6.40	60.00
PNWS - Farm Rd *	0.25	7.05	6.70	60.00
PNWS - Urdal Rd *	0.27	7.04	6.90	60.00
Pemberton Total	0.31	7.04	7.66	61.11
Industrial Park **	0.12	7.00	7.50	27.00
22-Mar-21				
Pemberton				
Health Centre	0.28	6.74	9.40	43.00
Oak St	0.42	6.71	8.40	56.00
Plateau/Ridge	0.28	7.00	7.20	57.00
Village Office	0.38	6.75	8.30	42.00
WWTP	0.10	7.01	7.40	60.00
Collins Rd	0.37	6.72	6.90	46.00
PNWS - Meadows Rd *	0.37	6.75	7.50	41.00
PNWS - Farm Rd *				
PNWS - Urdal Rd *	0.32	6.71	8.20	46.00
Pemberton Total	0.32	6.80	7.91	48.88
Industrial Park **	0.00	6.92	7.30	24.00
29-Mar-21				
Pemberton				
Health Centre	0.34	7.00	10.30	56.00
Oak St	0.39	7.07	7.80	62.00
Plateau/Ridge	0.28	7.02	7.10	58.00
Village Office	0.26	7.05	8.10	58.00
WWTP	0.05	6.99	6.90	58.00
Collins Rd				
PNWS - Meadows Rd *	0.35	7.00	6.90	63.00
PNWS - Farm Rd *	0.34	7.02	6.80	56.00
PNWS - Urdal Rd *				
Pemberton Total	0.29	7.02	7.70	58.71
Industrial Park **	0.17	6.90	7.30	22.00
6-Apr-21				
Pemberton				
Health Centre	0.28	6.95	9.70	60.00
Oak St	0.35	6.97	11.60	52.00
Plateau/Ridge	0.28	6.98	11.20	59.00
Village Office	0.32	7.00	10.30	62.00
WWTP	0.27	7.00	10.10	62.00
Collins Rd	0.32	6.98	10.20	68.00
PNWS - Meadows Rd *	0.36	6.97	10.60	56.00
PNWS - Farm Rd *	0.32	7.00	9.80	58.00

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 Village of Pemberton Water System

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
PNWS - Urdal Rd *	0.33	6.98	9.80	63.00
Pemberton Total	0.31	6.98	10.37	60.00
Industrial Park **	0.14	6.91	10.30	24.00
12-Apr-21				
Pemberton				
Health Centre	0.20	6.98	11.90	66.00
Oak St	0.26	6.99	12.10	65.00
Plateau/Ridge	0.25	6.98	9.60	67.00
Village Office	0.21	6.99	8.90	55.00
WWTP	0.14	7.00	8.40	56.00
Collins Rd	0.20	6.98	10.30	57.00
PNWS - Meadows Rd *	0.25	6.99	9.50	62.00
PNWS - Farm Rd *	0.27	6.98	10.20	51.00
PNWS - Urdal Rd *	0.28	7.00	11.10	62.00
Pemberton Total	0.23	6.99	10.22	60.11
Industrial Park **	0.00	6.96	7.80	24.00
19-Apr-21				
Pemberton				
Health Centre	0.30	7.05	11.50	67.00
Oak St	0.30	6.92	13.10	58.00
Plateau/Ridge	0.29	7.05	11.70	60.00
Village Office	0.31	7.07	11.70	60.00
WWTP	0.25	7.04	11.20	51.00
Collins Rd	0.33	7.05	13.20	58.00
PNWS - Meadows Rd *	0.28	7.05	11.00	56.00
PNWS - Farm Rd *	0.28	7.01	11.20	63.00
PNWS - Urdal Rd *	0.15	6.99	12.20	54.00
Pemberton Total	0.28	7.03	11.87	58.56
Industrial Park **	0.03	6.84	10.60	22.00
26-Apr-21				
Pemberton				
Health Centre	0.36	7.03	12.40	57.00
Oak St	0.27	7.02	10.10	58.00
Plateau/Ridge	0.24	6.98	10.20	58.00
Village Office	0.31	7.00	11.90	59.00
WWTP	0.13	7.05	10.30	65.00
Collins Rd				
PNWS - Meadows Rd *	0.32	7.04	10.20	57.00
PNWS - Farm Rd *	0.30	7.02	10.00	61.00
PNWS - Urdal Rd *				
Pemberton Total	0.28	7.02	10.73	59.29
Industrial Park **	0.13	6.95	10.40	23.00
3-May-21				
Pemberton				
Health Centre	0.27	7.04	12.50	54.00

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 Village of Pemberton Water System

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Oak St	0.27	7.00	12.40	53.00
Plateau/Ridge	0.26	7.02	10.10	54.00
Village Office	0.30	6.98	9.90	56.00
WWTP	0.21	7.01	10.10	57.00
PNWS - Meadows Rd *	0.33	7.01	9.20	58.00
PNWS - Farm Rd *	0.31	6.97	10.10	56.00
Pemberton Total	0.28	7.00	10.61	55.43
Industrial Park **	0.06	6.98	9.10	25.00
10-May-21				
Pemberton				
Health Centre	0.35	6.98	14.70	64.00
Oak St	0.34	6.99	14.00	49.00
Plateau/Ridge	0.35	7.02	12.80	58.00
Village Office	0.33	7.00	12.60	47.00
WWTP	0.22	7.07	8.70	53.00
PNWS - Meadows Rd *	0.29	7.00	11.50	58.00
PNWS - Farm Rd *	0.36	7.01	10.40	62.00
Pemberton Total	0.32	7.01	12.10	55.86
Industrial Park **	0.18	7.02	13.00	23.00
17-May-21				
Pemberton				
Health Centre	0.36	6.99	8.10	57.00
Oak St	0.37	7.00	10.30	57.00
Plateau/Ridge	0.34	6.99	9.80	60.00
Village Office	0.28	6.98	7.80	57.00
WWTP	0.12	7.03	7.70	62.00
PNWS - Meadows Rd *	0.33	7.01	7.90	60.00
PNWS - Farm Rd *	0.29	7.00	8.10	59.00
Pemberton Total	0.30	7.00	8.53	58.86
Industrial Park **	0.08	6.96	10.00	20.00
26-May-21				
Pemberton				
Health Centre	0.29	6.97	13.50	52.00
Oak St	0.35	6.94	11.80	57.00
Plateau/Ridge	0.34	6.96	12.20	57.00
Village Office	0.34	6.94	13.30	56.00
WWTP	0.26	7.02	11.40	54.00
PNWS - Meadows Rd *	0.35	6.94	10.90	57.00
PNWS - Farm Rd *	0.37	6.93	12.80	54.00
Pemberton Total	0.33	6.96	12.27	55.29
Industrial Park **	0.18	6.98	12.10	23.00
31-May-21				
Pemberton				
Health Centre	0.36	7.03	13.50	68.00
Oak St	0.36	6.98	12.80	69.00

* Pemberton North Water Service is a continuation of the Pemberton Water distribution system within Squamish Lilloet Regional District Area C Village of Pemberton Water System

** Pemberton Industrial Park is supplied by Lil'wat Nation through a water use agreement

Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Plateau/Ridge	0.33	6.99	11.90	70.00
Village Office	0.34	7.00	13.10	70.00
WWTP	0.08	6.99	13.20	60.00
PNWS - Meadows Rd *	0.37	7.02	12.90	68.00
PNWS - Farm Rd *	0.32	7.00	13.10	62.00
Pemberton Total	0.31	7.00	12.93	66.71
Industrial Park **	0.05	7.03	12.80	24.00
9-Jun-21				
Pemberton				
Health Centre	0.28	7.06	11.90	64.00
Oak St	0.34	7.00	11.40	63.00
Plateau/Ridge	0.20	7.04	9.20	63.00
Village Office	0.31	7.05	8.90	67.00
WWTP	0.09	7.10	7.60	72.00
PNWS - Meadows Rd *	0.35	7.03	11.30	57.00
PNWS - Farm Rd *	0.32	7.04	7.80	68.00
Pemberton Total	0.27	7.05	9.73	64.86
Industrial Park **	0.00	7.08	11.30	20.00
14-Jun-21				
Pemberton				
Health Centre	0.35	7.02	11.30	67.00
Oak St	0.42	6.97	14.20	58.00
Plateau/Ridge	0.42	7.00	13.20	50.00
Village Office	0.31	6.96	13.40	57.00
WWTP	0.19	7.01	14.30	63.00
PNWS - Meadows Rd *	0.36	6.96	13.30	55.00
PNWS - Farm Rd *	0.38	6.98	13.30	57.00
Pemberton Total	0.35	6.99	13.29	58.14
Industrial Park **	0.11	7.08	13.30	13.00
21-Jun-21				
Pemberton				
Health Centre	0.28	7.00	14.00	72.00
Oak St	0.31	6.90	14.70	66.00
Plateau/Ridge	0.30	6.90	12.90	68.00
Village Office	0.28	6.80	13.70	69.00
WWTP	0.23	7.00	13.70	64.00
PNWS - Meadows Rd *	0.34	7.00	14.00	64.00
PNWS - Farm Rd *	0.33	7.00	12.30	64.00
Pemberton Total	0.30	6.94	13.61	66.71
Industrial Park **	0.23	7.00	12.50	13.00
28-Jun-21				
Pemberton				
Health Centre	0.18	7.00	18.60	61.00
Oak St	0.15	6.90	13.50	56.00
Plateau/Ridge	0.21	7.00	17.40	62.00

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 Village of Pemberton Water System

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Village Office	0.20	7.00	18.40	63.00
WWTP	0.25	7.00	14.00	72.00
PNWS - Meadows Rd *	0.18	6.90	13.20	57.00
PNWS - Farm Rd *	0.20	7.00	16.00	62.00
Pemberton Total	0.20	6.97	15.87	61.86
Industrial Park **	0.12	7.10	14.70	16.00
5-Jul-21				
Pemberton				
Health Centre	0.46	7.00	15.50	65.00
Oak St	0.26	6.90	18.00	65.00
Plateau/Ridge	0.39	7.00	16.60	68.00
Village Office	0.29	7.00	16.00	52.00
WWTP	0.11	7.00	15.60	69.00
PNWS - Meadows Rd *	0.43	7.00	16.30	62.00
PNWS - Farm Rd *	0.42	7.00	15.10	70.00
Pemberton Total	0.34	6.99	16.16	64.43
Industrial Park **	0.00	7.10	15.50	20.00
12-Jul-21				
Pemberton				
Health Centre	0.48	6.30	14.90	17.00
Oak St	0.42	6.20	17.30	20.00
Plateau/Ridge	0.42	6.40	13.80	22.00
Village Office	0.27	6.30	15.30	22.00
WWTP	0.44	6.70	11.40	60.00
PNWS - Meadows Rd *	0.45	6.40	14.30	20.00
PNWS - Farm Rd *	0.46	6.40	14.30	20.00
Pemberton Total	0.42	6.39	14.47	25.86
Industrial Park **	0.34	6.60	13.80	23.00
15-Jul-21				
Pemberton				
Health Centre	0.32	6.90	15.50	54.00
Oak St	0.41	6.80	16.00	63.00
Plateau/Ridge	0.42	6.80	16.10	67.00
Village Office	0.36	6.80	15.80	67.00
WWTP	0.34	6.70	15.00	24.00
PNWS - Meadows Rd *	0.40	6.80	13.80	62.00
PNWS - Farm Rd *	0.43	6.90	13.40	63.00
Pemberton Total	0.38	6.81	15.09	57.14
Industrial Park **	0.11	7.00	14.30	63.00
19-Jul-21				
Pemberton				
Health Centre	0.46	6.90	14.60	65.00
Oak St	0.42	6.90	14.60	65.00
Plateau/Ridge	0.45	6.90	13.20	67.00
Village Office	0.33	6.90	13.30	69.00

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 Village of Pemberton Water System

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
WWTP	0.05	6.80	13.70	70.00
PNWS - Meadows Rd *	0.42	6.90	14.10	67.00
PNWS - Farm Rd *	0.41	6.90	12.90	66.00
Pemberton Total	0.36	6.89	13.77	67.00
Industrial Park **	0.20	7.00	13.80	17.00
26-Jul-21				
Pemberton				
Health Centre	0.30	7.00	17.30	59.00
Oak St	0.35	6.90	17.90	65.00
Plateau/Ridge	0.40	6.90	17.10	64.00
Village Office	0.31	7.00	16.70	66.00
WWTP	0.14	7.00	16.20	67.00
PNWS - Meadows Rd *	0.39	6.90	17.20	67.00
PNWS - Farm Rd *	0.35	6.90	16.80	64.00
Pemberton Total	0.32	6.94	17.03	64.57
Industrial Park **	0.13	7.00	16.50	15.00
3-Aug-21				
Pemberton				
Health Centre	0.38	7.00	14.90	62.00
WWTP	0.10	7.00	16.20	58.00
Pemberton Total	0.24	7.00	15.55	60.00
4-Aug-21				
Pemberton				
Oak St	0.43	7.10	14.20	77.00
Plateau/Ridge	0.39	7.00	12.60	72.00
Village Office	0.37	7.00	14.70	76.00
PNWS - Meadows Rd *	0.39	7.00	14.90	74.00
PNWS - Farm Rd *	0.38	7.00	11.30	78.00
Pemberton Total	0.39	7.02	13.54	75.40
Industrial Park **	0.32	7.00	11.90	18.00
10-Aug-21				
Pemberton				
Health Centre	0.34	7.00	14.30	76.00
Oak St	0.45	7.00	14.30	67.00
Plateau/Ridge	0.42	7.00	14.70	87.00
Village Office	0.28	7.00	15.50	79.00
WWTP	0.15	7.00	14.20	76.00
PNWS - Meadows Rd *	0.35	7.00	13.70	78.00
PNWS - Farm Rd *	0.42	7.00	12.90	73.00
Pemberton Total	0.34	7.00	14.23	76.57
Industrial Park **	0.11	7.10	13.90	16.00
16-Aug-21				
Pemberton				
Health Centre	0.36	6.89	17.00	70.00
Oak St	0.43	8.68	15.10	75.00

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 Village of Pemberton Water System

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Plateau/Ridge	0.43	6.96	14.90	87.00
Village Office	0.40	6.90	15.10	72.00
WWTP	0.13	7.00	13.40	80.00
PNWS - Meadows Rd *	0.32	6.91	15.70	80.00
PNWS - Farm Rd *	0.40	6.95	15.00	76.00
Pemberton Total	0.35	7.18	15.17	77.14
Industrial Park **	0.00	7.10	14.40	21.00
23-Aug-21				
Pemberton				
Health Centre	0.36	6.97	14.60	80.00
Oak St	0.36	6.90	13.20	79.00
Plateau/Ridge	0.35	6.95	12.70	81.00
Village Office	0.29	6.98	14.20	85.00
WWTP	0.24	6.98	14.50	76.00
PNWS - Meadows Rd *	0.36	6.95	13.60	80.00
PNWS - Farm Rd *	0.41	6.91	13.00	79.00
Pemberton Total	0.34	6.95	13.69	80.00
Industrial Park **	0.00	7.03	12.70	20.00
30-Aug-21				
Pemberton				
Plateau/Ridge	0.35	6.91	12.10	66.00
Village Office	0.43	6.85	10.40	75.00
WWTP	0.14	7.00	11.40	75.00
Pemberton Total	0.31	6.92	11.30	72.00
Industrial Park **	0.29	6.94	12.20	18.00
31-Aug-21				
Pemberton				
Health Centre	0.35	6.91	16.70	75.00
Oak St	0.40	6.80	13.80	71.00
PNWS - Meadows Rd *	0.35	6.82	14.30	68.00
PNWS - Farm Rd *	0.39	6.83	13.80	75.00
Pemberton Total	0.37	6.84	14.65	72.25
8-Sep-21				
Pemberton				
Health Centre	0.32	7.03	16.20	78.00
Oak St	0.32	6.96	15.00	78.00
Plateau/Ridge	0.35	6.97	14.80	77.00
Village Office	0.35	7.00	15.40	78.00
WWTP	0.08	6.97	16.20	82.00
PNWS - Meadows Rd *	0.32	7.00	15.60	77.00
PNWS - Farm Rd *	0.34	6.97	15.30	77.00
Pemberton Total	0.30	6.99	15.50	78.14
Industrial Park **	0.00	7.00	15.00	19.00
13-Sep-21				
Pemberton				

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 Village of Pemberton Water System

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Health Centre	0.30	6.90	15.20	78.00
Oak St	0.38	6.88	17.10	83.00
Plateau/Ridge	0.31	6.90	17.30	78.00
Village Office	0.34	6.96	17.90	75.00
WWTP	0.12	6.81	17.60	50.00
PNWS - Meadows Rd *	0.40	6.88	18.30	72.00
PNWS - Farm Rd *	0.36	6.86	17.30	74.00
Pemberton Total	0.32	6.88	17.24	72.86
Industrial Park **	0.21	6.81	17.90	20.00
20-Sep-21				
Pemberton				
Health Centre	0.36	7.04	14.30	84.00
Oak St	0.38	6.96	13.30	86.00
Plateau/Ridge	0.33	6.98	12.70	76.00
Village Office	0.30	7.02	12.30	80.00
WWTP	0.12	7.00	13.40	84.00
PNWS - Meadows Rd *	0.35	6.95	13.10	73.00
PNWS - Farm Rd *	0.28	7.01	14.00	83.00
Pemberton Total	0.30	6.99	13.30	80.86
Industrial Park **	0.00	7.01	14.40	34.00
27-Sep-21				
Pemberton				
Health Centre	0.32	7.05	15.50	84.00
Oak St	0.36	7.05	13.30	84.00
Plateau/Ridge	0.28	7.05	14.10	83.00
Village Office	0.29	7.12	14.30	83.00
WWTP	0.18	7.08	14.10	81.00
PNWS - Meadows Rd *	0.26	7.09	13.80	81.00
PNWS - Farm Rd *	0.28	7.03	13.40	88.00
Pemberton Total	0.28	7.07	14.07	83.43
Industrial Park **	0.08	7.13	12.70	20.00
5-Oct-21				
Pemberton				
Health Centre	0.27	6.95	14.70	75.00
Oak St	0.28	7.07	16.40	70.00
Plateau/Ridge	0.28	6.99	12.40	72.00
Village Office	0.25	7.01	15.20	65.00
WWTP	0.16	7.00	16.70	94.00
PNWS - Meadows Rd *	0.27	6.99	15.40	72.00
PNWS - Farm Rd *	0.27	7.03	15.30	75.00
Pemberton Total	0.25	7.01	15.16	74.71
Industrial Park **	0.06	7.00	14.60	18.00
12-Oct-21				
Pemberton				
Health Centre	0.31	7.08	13.00	81.00

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Oak St	0.37	7.00	11.60	77.00
Plateau/Ridge	0.26	7.03	10.30	78.00
Village Office	0.26	7.04	8.70	82.00
WWTP	0.15	7.05	10.50	74.00
PNWS - Meadows Rd *	0.29	7.02	13.10	78.00
PNWS - Farm Rd *	0.25	7.00	12.80	80.00
Pemberton Total	0.27	7.03	11.43	78.57
Industrial Park **	0.08	7.15	9.00	21.00
18-Oct-21				
Pemberton				
Health Centre	0.29	7.17	11.50	82.00
Oak St	0.33	7.19	10.60	87.00
Plateau/Ridge	0.30	7.18	13.20	82.00
Village Office	0.34	7.17	11.50	87.00
WWTP	0.06	7.21	14.40	87.00
PNWS - Meadows Rd *	0.34	7.22	11.60	76.00
PNWS - Farm Rd *	0.34	7.18	11.80	86.00
Pemberton Total	0.29	7.19	12.09	83.86
Industrial Park **	0.22	7.26	11.80	18.00
25-Oct-21				
Pemberton				
Health Centre	0.36	7.17	12.90	81.00
Oak St	0.35	7.11	13.00	78.00
Plateau/Ridge	0.27	7.19	11.10	79.00
Village Office	0.36	7.16	11.90	77.00
WWTP	0.18	7.19	11.50	69.00
PNWS - Meadows Rd *	0.26	7.17	13.10	82.00
PNWS - Farm Rd *	0.36	7.16	12.80	85.00
Pemberton Total	0.31	7.16	12.33	78.71
Industrial Park **	0.11	7.28	11.10	23.00
1-Nov-21				
Pemberton				
Health Centre	0.27	7.14	11.00	80.00
Oak St	0.33	7.15	10.60	84.00
Plateau/Ridge	0.20	7.15	10.60	84.00
Village Office	0.27	7.16	10.70	84.00
WWTP	0.08	7.15	10.50	86.00
PNWS - Meadows Rd *	0.31	7.07	11.80	82.00
PNWS - Farm Rd *	0.27	7.04	11.20	82.00
Pemberton Total	0.25	7.12	10.91	83.14
Industrial Park **	0.00	7.30	10.10	20.00
8-Nov-21				
Pemberton				
Health Centre	0.35	7.15	13.40	80.00
Oak St	0.33	7.22	8.90	77.00

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 ** Pemberton Industrial Park is supplied by Lil'wat Nation through a water use agreement
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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Plateau/Ridge	0.28	7.21	10.90	84.00
Village Office	0.38	7.20	11.90	82.00
WWTP	0.28	7.24	11.60	86.00
PNWS - Meadows Rd *	0.35	7.18	8.90	75.00
PNWS - Farm Rd *				
Pemberton Total	0.33	7.20	10.93	80.67
Industrial Park **	0.12	7.13	8.70	19.00
15-Nov-21				
Pemberton				
Health Centre	0.36	7.13	10.50	80.00
Oak St	0.40	7.16	10.30	86.00
Plateau/Ridge	0.29	7.18	11.50	82.00
Village Office	0.32	7.20	11.30	79.00
WWTP	0.12	7.18	11.20	85.00
PNWS - Meadows Rd *	0.36	7.04	11.50	80.00
PNWS - Farm Rd *	0.35	7.16	11.10	82.00
Pemberton Total	0.31	7.15	11.06	82.00
Industrial Park **	0.10	7.06	10.10	18.00
22-Nov-21				
Pemberton				
Health Centre	0.37	7.05	12.20	90.00
Oak St	0.38	6.98	11.90	76.00
Plateau/Ridge	0.26	7.06	9.10	75.00
Village Office	0.31	7.05	9.40	77.00
WWTP	0.08	7.08	9.80	78.00
PNWS - Meadows Rd *	0.36	7.06	11.30	82.00
PNWS - Farm Rd *	0.35	7.07	10.90	76.00
Pemberton Total	0.30	7.05	10.66	79.14
Industrial Park **	0.09	7.15	9.50	12.00
29-Nov-21				
Pemberton				
Health Centre	0.30	7.06	13.90	70.00
Oak St	0.38	7.10	11.40	83.00
Plateau/Ridge	0.20	7.12	12.30	71.00
Village Office	0.34	7.10	11.10	80.00
WWTP	0.05	7.09	10.10	78.00
PNWS - Meadows Rd *	0.40	7.08	10.70	72.00
PNWS - Farm Rd *	0.32	7.07	10.30	73.00
Pemberton Total	0.28	7.09	11.40	75.29
Industrial Park **	0.08	7.16	9.90	22.00
7-Dec-21				
Pemberton				
Health Centre	0.27	7.06	8.20	72.00
Oak St	0.35	7.09	9.00	56.00
Plateau/Ridge	0.28	7.09	7.60	66.00

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Source	Chlorine Residual	pH	Temperature (C)	Alkalinity
Village Office	0.27	7.13	8.50	53.00
WWTP	0.10	7.08	9.70	74.00
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
Pemberton Total	0.25	7.09	8.60	64.20
Industrial Park **	0.11	7.16	8.10	24.00
15-Dec-21				
Pemberton				
Health Centre	0.29	7.05	8.60	58.00
Oak St	0.42	7.02	7.90	67.00
Plateau/Ridge	0.29	7.05	7.70	71.00
Village Office	0.42	7.01	8.40	66.00
WWTP	0.08	7.05	8.90	71.00
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
Pemberton Total	0.30	7.04	8.30	66.60
Industrial Park **	0.05	7.13	8.50	15.00
20-Dec-21				
Pemberton				
Health Centre	0.33	7.09	9.90	74.00
Oak St	0.40	7.09	10.00	60.00
Plateau/Ridge	0.25	6.98	12.00	74.00
Village Office	0.27	7.11	8.70	72.00
WWTP	0.12	7.11	8.60	74.00
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
Pemberton Total	0.27	7.08	9.84	70.80
Industrial Park **	0.04	7.21	6.60	14.00

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 Village of Pemberton Water System 2021 Annual Report

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APPENDIX IV

2021 Weekly VCH Bacteriological Results

Appendix IV

Sample Range Report

Vancouver Coastal Health

Facility Name: Village of Pemberton
Date Range: Jan 1 2021 to Dec 31 2021
Operator: Jeff Westlake
 P.O. Box 100
 Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Treatment</u>				
<u>Plant/Airport Rd.,</u>				
<u>Pemberton</u>				
	1/4/2021 8:30:00 AM	LT1	LT1	
	1/11/2021 8:30:00 AM	LT1	LT1	
	1/18/2021 8:30:00 AM	LT1	LT1	
	1/26/2021 8:30:00 AM	LT1	LT1	
	2/3/2021 8:30:00 AM	LT1	LT1	
	2/8/2021 8:30:00 AM	LT1	LT1	
	2/16/2021 8:30:00 AM	LT1	LT1	
	2/22/2021 8:30:00 AM	LT1	LT1	
	3/1/2021 8:30:00 AM	LT1	LT1	
	3/8/2021 8:30:00 AM	LT1	LT1	
	3/15/2021 8:30:00 AM	LT1	LT1	
	3/22/2021 8:30:00 AM	LT1	LT1	
	3/29/2021 8:30:00 AM	LT1	LT1	
	4/12/2021 8:30:00 AM	LT1	LT1	
	4/19/2021 8:30:00 AM	LT1	LT1	
	4/26/2021 8:30:00 AM	LT1	LT1	
	5/10/2021 8:30:00 AM	LT1	LT1	
	5/17/2021 8:30:00 AM	LT1	LT1	
	5/26/2021 8:30:00 AM	LT1	LT1	
	5/31/2021 8:30:00 AM	LT1	LT1	
	6/7/2021 8:30:00 AM	LT1	LT1	
	6/14/2021 8:30:00 AM	LT1	LT1	

6/21/2021 8:30:00 AM	LT1	LT1
6/28/2021 8:30:00 AM	LT1	LT1
7/5/2021 8:30:00 AM	LT1	LT1
7/12/2021 8:00:00 AM	LT1	LT1
7/19/2021 8:00:00 AM	LT1	LT1
7/26/2021 8:30:00 AM	LT1	LT1
8/3/2021 10:30:00 AM	LT1	LT1
8/10/2021 8:30:00 AM	LT1	LT1
8/16/2021 8:30:00 AM	LT1	LT1
8/23/2021 8:30:00 AM	QRWRT	QRWRT
8/30/2021 8:30:00 AM	LT1	LT1
9/7/2021 8:30:00 AM	LT1	LT1
9/13/2021 8:30:00 AM	LT1	LT1
9/27/2021 8:30:00 AM	LT1	LT1
10/5/2021 8:30:00 AM	LT1	LT1
10/12/2021 8:30:00 AM	LT1	LT1
10/18/2021 8:30:00 AM	LT1	LT1
10/25/2021 8:30:00 AM	LT1	LT1
11/1/2021 8:30:00 AM	LT1	LT1
11/8/2021 8:30:00 AM	LT1	LT1
11/15/2021 8:30:00 AM	LT1	LT1
11/22/2021 8:30:00 AM	LT1	LT1
11/29/2021 8:30:00 AM	LT1	LT1
12/7/2021 8:30:00 AM	LT1	LT1
12/15/2021 8:30:00 AM	LT1	LT1
12/20/2021 8:30:00 AM	<u>QRWRT</u>	<u>QRWRT</u>
Total Positive:	0	0

Oak Street At High School, Pemberton

1/4/2021 9:50:00 AM	LT1	LT1
1/11/2021 10:00:00 AM	LT1	LT1
1/18/2021 9:50:00 AM	LT1	LT1
1/26/2021 9:20:00 AM	LT1	LT1
2/3/2021 9:30:00 AM	LT1	LT1
2/8/2021 10:20:00 AM	LT1	LT1
2/16/2021 9:30:00 AM	LT1	LT1
2/22/2021 10:10:00 AM	LT1	LT1
3/1/2021 10:20:00 AM	LT1	LT1
3/8/2021 10:00:00 AM	LT1	LT1
3/15/2021 10:10:00 AM	LT1	LT1
3/22/2021 10:10:00 AM	LT1	LT1
3/29/2021 10:20:00 AM	LT1	LT1
4/12/2021 10:10:00 AM	LT1	LT1
4/19/2021 10:10:00 AM	LT1	LT1
4/26/2021 10:00:00 AM	LT1	LT1
5/10/2021 9:50:00 AM	LT1	LT1
5/17/2021 9:30:00 AM	LT1	LT1
5/26/2021 9:50:00 AM	LT1	LT1
5/31/2021 9:50:00 AM	LT1	LT1
6/7/2021 9:50:00 AM	LT1	LT1
6/14/2021 9:50:00 AM	LT1	LT1
6/21/2021 10:10:00 AM	LT1	LT1
6/29/2021 9:20:00 AM	LT1	LT1
7/5/2021 10:20:00 AM	LT1	LT1
7/12/2021 8:30:00 AM	LT1	LT1
7/19/2021 8:50:00 AM	LT1	LT1
7/26/2021 9:50:00 AM	LT1	LT1
8/4/2021 9:30:00 AM	LT1	LT1
8/10/2021 9:50:00 AM	LT1	LT1

AM		
8/16/2021 9:50:00	LT1	LT1
AM		
8/23/2021 9:50:00	QRWRT	QRWRT
AM		
8/31/2021 9:50:00	LT1	LT1
AM		
9/7/2021 9:50:00 AM	LT1	LT1
9/13/2021 9:50:00	LT1	LT1
AM		
9/20/2021 10:00:00	LT1	LT1
AM		
9/27/2021 9:50:00	LT1	LT1
AM		
10/12/2021 9:50:00	LT1	LT1
AM		
10/18/2021 9:50:00	LT1	LT1
AM		
10/25/2021 9:50:00	LT1	LT1
AM		
11/1/2021 9:50:00	LT1	LT1
AM		
11/8/2021 9:20:00	LT1	LT1
AM		
11/15/2021 9:40:00	LT1	LT1
AM		
11/22/2021 9:50:00	LT1	LT1
AM		
11/29/2021 9:50:00	LT1	LT1
AM		
12/7/2021 9:30:00	LT1	LT1
AM		
12/15/2021 9:30:00	LT1	LT1
AM		
12/20/2021 9:30:00	<u>QRWRT</u>	<u>QRWRT</u>
AM		
Total Positive:	0	0

Ad hoc /
miscellaneous site,
Pemberton

5/19/2021 9:30:00	LT1	LT1
AM		
5/19/2021 9:40:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

Pemberton Ridge
Pumphouse,
Pemberton

1/4/2021 8:40:00 AM	LT1	LT1
1/11/2021 8:40:00	LT1	LT1
AM		

1/18/2021 8:40:00 AM	LT1	LT1
1/26/2021 8:40:00 AM	LT1	LT1
2/3/2021 8:40:00 AM	LT1	LT1
2/8/2021 8:30:00 AM	LT1	LT1
2/16/2021 8:40:00 AM	LT1	LT1
2/22/2021 8:40:00 AM	LT1	LT1
3/1/2021 8:40:00 AM	LT1	LT1
3/8/2021 8:40:00 AM	LT1	LT1
3/15/2021 8:40:00 AM	LT1	LT1
3/22/2021 8:40:00 AM	LT1	LT1
3/29/2021 8:40:00 AM	LT1	LT1
4/6/2021 8:40:00 AM	LT1	LT1
4/12/2021 8:40:00 AM	LT1	LT1
4/19/2021 8:40:00 AM	LT1	LT1
4/26/2021 8:40:00 AM	LT1	LT1
5/10/2021 8:40:00 AM	LT1	LT1
5/17/2021 8:40:00 AM	LT1	LT1
5/26/2021 8:40:00 AM	LT1	LT1
5/31/2021 8:40:00 AM	LT1	LT1
6/7/2021 8:40:00 AM	LT1	LT1
6/14/2021 8:40:00 AM	LT1	LT1
6/21/2021 8:40:00 AM	LT1	LT1
6/28/2021 8:40:00 AM	LT1	LT1
7/5/2021 9:50:00 AM	LT1	LT1
7/12/2021 8:20:00 AM	LT1	LT1
7/19/2021 8:20:00 AM	LT1	LT1
7/26/2021 8:40:00 AM	LT1	LT1
8/4/2021 8:30:00 AM	LT1	LT1
8/10/2021 8:40:00 AM	LT1	LT1
8/16/2021 8:40:00 AM	LT1	LT1
8/23/2021 8:40:00 AM	QRWRT	QRWRT
8/30/2021 8:40:00	LT1	LT1

AM		
9/7/2021 8:40:00 AM	LT1	LT1
9/13/2021 8:40:00	LT1	LT1
AM		
9/20/2021 8:50:00	LT1	LT1
AM		
9/27/2021 8:40:00	LT1	LT1
AM		
10/12/2021 8:40:00	LT1	LT1
AM		
10/18/2021 8:40:00	LT1	LT1
AM		
10/25/2021 8:40:00	LT1	LT1
AM		
11/1/2021 9:40:00	LT1	LT1
AM		
11/8/2021 8:40:00	LT1	LT1
AM		
11/15/2021 8:40:00	LT1	LT1
AM		
11/22/2021 8:40:00	LT1	LT1
AM		
11/29/2021 8:40:00	LT1	LT1
AM		
12/7/2021 8:40:00	LT1	LT1
AM		
12/15/2021 8:40:00	LT1	LT1
AM		
12/20/2021 8:40:00	<u>QRWRT</u>	<u>QRWRT</u>
AM		
Total Positive:	0	0

Pemberton Health
Center, 1403
Portage Road,
Pemberton, B.C.

1/4/2021 10:00:00	LT1	LT1
AM		
1/11/2021 10:10:00	LT1	LT1
AM		
1/18/2021 10:00:00	LT1	LT1
AM		
1/26/2021 9:30:00	LT1	LT1
AM		
2/3/2021 9:40:00 AM	LT1	LT1
2/8/2021 10:30:00	LT1	LT1
AM		
2/16/2021 9:40:00	LT1	LT1
AM		
2/22/2021 10:20:00	LT1	LT1
AM		
3/1/2021 10:10:00	LT1	LT1
AM		
3/8/2021 10:10:00	LT1	LT1

AM		
3/15/2021 10:20:00	LT1	LT1
AM		
3/22/2021 10:20:00	LT1	LT1
AM		
3/29/2021 10:30:00	LT1	LT1
AM		
4/12/2021 10:20:00	LT1	LT1
AM		
4/19/2021 10:20:00	LT1	LT1
AM		
4/26/2021 10:10:00	LT1	LT1
AM		
5/10/2021 10:00:00	LT1	LT1
AM		
5/17/2021 9:40:00	LT1	LT1
AM		
5/26/2021 10:00:00	LT1	LT1
AM		
5/31/2021 10:00:00	LT1	LT1
AM		
6/7/2021 10:00:00	LT1	LT1
AM		
6/14/2021 10:00:00	LT1	LT1
AM		
6/21/2021 10:20:00	LT1	LT1
AM		
6/28/2021 9:30:00	LT1	LT1
AM		
7/5/2021 11:00:00	LT1	LT1
AM		
7/12/2021 9:40:00	LT1	LT1
AM		
7/19/2021 9:40:00	LT1	LT1
AM		
7/26/2021 10:00:00	LT1	LT1
AM		
8/3/2021 11:30:00	LT1	LT1
AM		
8/10/2021 10:00:00	LT1	LT1
AM		
8/16/2021 10:00:00	LT1	LT1
AM		
8/23/2021 10:05:00	QRWRT	QRWRT
AM		
8/31/2021 10:00:00	LT1	LT1
AM		
9/7/2021 10:00:00	LT1	LT1
AM		
9/13/2021 10:00:00	LT1	LT1
AM		
9/20/2021 10:10:00	LT1	LT1
AM		
9/27/2021 10:00:00	LT1	LT1
AM		

10/5/2021 10:00:00 AM	LT1	LT1
10/12/2021 10:00:00 AM	LT1	LT1
10/18/2021 10:00:00 AM	LT1	LT1
10/25/2021 10:00:00 AM	LT1	LT1
11/1/2021 10:00:00 AM	LT1	LT1
11/8/2021 10:00:00 AM	LT1	LT1
11/15/2021 9:50:00 AM	LT1	LT1
11/22/2021 10:00:00 AM	LT1	LT1
11/29/2021 10:00:00 AM	LT1	LT1
12/7/2021 9:40:00 AM	LT1	LT1
12/15/2021 9:40:00 AM	LT1	LT1
12/20/2021 9:40:00 AM	<u>QRWRT</u>	<u>QRWRT</u>
Total Positive:	0	0

Village Office, 7410 Prospect

1/4/2021 8:50:00 AM	LT1	LT1
1/11/2021 9:00:00 AM	LT1	LT1
1/18/2021 9:00:00 AM	LT1	LT1
1/26/2021 9:00:00 AM	LT1	LT1
2/3/2021 9:00:00 AM	LT1	LT1
2/8/2021 9:00:00 AM	LT1	LT1
2/16/2021 9:00:00 AM	LT1	LT1
2/22/2021 9:00:00 AM	LT1	LT1
3/1/2021 9:00:00 AM	LT1	LT1
3/8/2021 9:00:00 AM	LT1	LT1
3/15/2021 9:00:00 AM	LT1	LT1
3/22/2021 9:00:00 AM	LT1	LT1
3/29/2021 9:00:00 AM	LT1	LT1
4/12/2021 9:00:00 AM	LT1	LT1
4/19/2021 9:00:00 AM	LT1	LT1
4/26/2021 9:50:00	LT1	LT1

AM		
5/10/2021 9:00:00	LT1	LT1
AM		
5/17/2021 9:00:00	LT1	LT1
AM		
5/26/2021 9:00:00	LT1	LT1
AM		
5/31/2021 9:00:00	LT1	LT1
AM		
6/7/2021 9:00:00 AM	LT1	LT1
6/14/2021 9:50:00	LT1	LT1
AM		
6/21/2021 9:00:00	LT1	LT1
AM		
6/28/2021 9:00:00	LT1	LT1
AM		
7/5/2021 10:30:00	LT1	LT1
AM		
7/12/2021 9:00:00	LT1	LT1
AM		
7/19/2021 9:00:00	LT1	LT1
AM		
7/26/2021 9:00:00	LT1	LT1
AM		
8/4/2021 9:00:00 AM	LT1	LT1
8/10/2021 9:00:00	LT1	LT1
AM		
8/16/2021 9:00:00	LT1	LT1
AM		
8/23/2021 9:00:00	QRWRT	QRWRT
AM		
8/30/2021 10:30:00	LT1	LT1
AM		
9/7/2021 9:00:00 AM	LT1	LT1
9/13/2021 9:00:00	LT1	LT1
AM		
9/20/2021 9:10:00	LT1	LT1
AM		
9/27/2021 9:00:00	LT1	LT1
AM		
10/5/2021 9:00:00	LT1	LT1
AM		
10/12/2021 9:00:00	LT1	LT1
AM		
10/18/2021 9:00:00	LT1	LT1
AM		
10/25/2021 9:00:00	LT1	LT1
AM		
11/1/2021 9:00:00	LT1	LT1
AM		
11/8/2021 8:50:00	LT1	LT1
AM		
11/15/2021 8:50:00	LT1	LT1
AM		
11/22/2021 9:00:00	LT1	LT1

AM		
11/29/2021 9:00:00	LT1	LT1
AM		
12/7/2021 9:00:00	LT1	LT1
AM		
12/15/2021 9:00:00	LT1	LT1
AM		
12/20/2021 9:00:00	<u>QRWRT</u>	<u>QRWRT</u>
AM		
Total Positive:	0	0

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	0	0.00% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	245	

Comments:

Environmental Health Officer
May 25 2022

FOR FURTHER INFORMATION PLEASE CALL: Dan Glover (604) 892-2293

Sample Range Report

Vancouver Coastal Health

Facility Name: Pemberton Industrial Park Water System

Date Range: Jan 1 2021 to Dec 31 2021

Operator Jeff Westlake
 Attn: Jeff Westlake Box 100
 Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Yard Hydrant,</u>				
<u>Pemberton Industrial</u>				
<u>Park</u>				
	1/5/2021 9:00:00 AM	LT1	LT1	
	1/11/2021 8:50:00 AM	LT1	LT1	
	1/18/2021 8:00:00 AM	LT1	LT1	
	1/26/2021 8:50:00 AM	LT1	LT1	
	2/3/2021 8:00:00 AM	LT1	LT1	
	2/8/2021 8:50:00 AM	LT1	LT1	
	2/16/2021 8:00:00 AM	LT1	LT1	
	2/22/2021 8:50:00 AM	LT1	LT1	
	3/1/2021 8:00:00 AM	LT1	LT1	
	3/8/2021 8:50:00 AM	LT1	LT1	
	3/15/2021 8:00:00 AM	LT1	LT1	
	3/22/2021 8:30:00 AM	LT1	LT1	
	3/29/2021 8:50:00 AM	LT1	LT1	
	4/6/2021 8:50:00 AM	LT1	LT1	
	5/17/2021 8:50:00 AM	LT1	LT1	
	5/26/2021 8:50:00 AM	LT1	LT1	
	5/31/2021 8:50:00 AM	LT1	LT1	
	6/7/2021 8:50:00 AM	LT1	LT1	
	6/14/2021 8:50:00 AM	LT1	LT1	
	6/21/2021 8:50:00 AM	LT1	LT1	
	6/28/2021 8:50:00 AM	LT1	LT1	
	7/5/2021 9:40:00 AM	LT1 GTR200	LT1 GTR200	
	7/12/2021 8:10:00 AM	LT1	LT1	

7/19/2021 8:10:00 AM	LT1	LT1
7/26/2021 8:50:00 AM	LT1	LT1
8/4/2021 8:40:00 AM	LT1	LT1
8/9/2021 10:00:00 AM	LT1	LT1
11/15/2021 10:00:00 AM	LT1	LT1
11/29/2021 8:50:00 AM	LT1	LT1
12/15/2021 8:50:00 AM	<u>LT1</u>	<u>LT1</u>
Total Positive:	0	0

Sample Station at
Meter Chamber,
Pemberton Industrial
Park

4/12/2021 8:50:00 AM	LT1	LT1
4/19/2021 8:50:00 AM	LT1	LT1
4/26/2021 8:50:00 AM	LT1	LT1
5/3/2021 8:50:00 AM	LT1	LT1
5/10/2021 8:50:00 AM	LT1	LT1
8/16/2021 8:50:00 AM	LT1	LT1
8/23/2021 8:50:00 AM	QRWRT	QRWRT
8/30/2021 8:50:00 AM	LT1	LT1
9/7/2021 8:50:00 AM	LT1	LT1
9/13/2021 8:50:00 AM	LT1	LT1
9/20/2021 9:00:00 AM	LT1	LT1
9/27/2021 8:52:00 AM	LT1	LT1
10/5/2021 8:50:00 AM	LT1	LT1
10/12/2021 8:00:00 AM	LT1	LT1
10/18/2021 8:50:00 AM	LT1	LT1
10/25/2021 8:50:00 AM	LT1	LT1
11/1/2021 8:50:00 AM	LT1	LT1
11/22/2021 8:50:00 AM	LT1	LT1
12/7/2021 8:50:00	LT1	LT1

AM
 12/20/2021 8:52:00 QRWRT QRWRT
 AM
Total Positive: **0** **0**

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	0		0.00% of total
Samples that contain e. coli:	0		0.00% of total
Samples that contain fecal coliform:	0		0.00% of total
Number of consecutive samples that contain total coliform:	0		
Number of samples that contain total coliform in last 30 days:	0/0		
Total number of samples:	50		

Comments:

Environmental Health Officer
 May 25 2022

FOR FURTHER INFORMATION PLEASE CALL: Dan Glover (604) 892-2293

Sample Range Report

Vancouver Coastal Health

Facility Name: Pemberton North Water System

Date Range: Jan 1 2021 to Dec 31 2021

Operator Utilities Department-SLRD
P.O. Box 219
Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>1428 Pemberton</u>				
<u>Farm Road,</u>				
<u>Adjacent to 1428</u>				
<u>Pemberton Farm</u>				
<u>Road</u>				
	1/4/2021 9:40:00 AM	LT1	LT1	
	1/11/2021 9:20:00 AM	LT1	LT1	
	1/18/2021 9:40:00 AM	LT1	LT1	
	2/22/2021 9:50:00 AM	LT1	LT1	
	3/1/2021 9:50:00 AM	LT1	LT1	
	3/8/2021 9:50:00 AM	LT1	LT1	
	3/15/2021 9:50:00 AM	LT1	LT1	
	3/22/2021 9:50:00 AM	LT1	LT1	
	3/29/2021 10:00:00 AM	LT1	LT1	
	4/6/2021 9:50:00 AM	LT1	LT1	
	4/12/2021 9:50:00 AM	LT1	LT1	
	4/19/2021 9:50:00 AM	LT1	LT1	
	4/26/2021 8:50:00 AM	LT1	LT1	
	5/3/2021 9:40:00 AM	LT1	LT1	
	5/10/2021 9:20:00 AM	LT1	LT1	
	5/19/2021 8:45:00 AM	LT1	LT1	
	5/26/2021 9:40:00 AM	LT1	LT1	
	5/31/2021 9:40:00 AM	LT1	LT1	
	6/7/2021 9:40:00 AM	LT1	LT1	
	6/14/2021 9:40:00 AM	LT1	LT1	
	6/21/2021 9:50:00 AM	LT1	LT1	

6/29/2021 9:10:00 AM	LT1	LT1
7/5/2021 10:10:00 AM	LT1	LT1
7/12/2021 8:40:00 AM	LT1	LT1
7/19/2021 8:46:00 AM	LT1	LT1
7/26/2021 9:40:00 AM	LT1	LT1
8/4/2021 9:20:00 AM	LT1	LT1
8/10/2021 9:40:00 AM	LT1	LT1
8/16/2021 9:40:00 AM	LT1	LT1
8/23/2021 9:40:00 AM	QRWRT	QRWRT
8/31/2021 9:20:00 AM	LT1	LT1
9/7/2021 9:40:00 AM	LT1	LT1
9/13/2021 9:40:00 AM	LT1	LT1
9/20/2021 9:50:00 AM	LT1	LT1
9/27/2021 9:40:00 AM	LT1	LT1
10/5/2021 9:40:00 AM	LT1	LT1
10/12/2021 9:40:00 AM	LT1	LT1
10/18/2021 9:40:00 AM	LT1	LT1
10/25/2021 9:40:00 AM	LT1	LT1
11/1/2021 9:40:00 AM	LT1	LT1
11/15/2021 9:30:00 AM	LT1	LT1
11/22/2021 9:40:00 AM	LT1	LT1
11/29/2021 9:40:00 AM	<u>LT1</u>	<u>LT1</u>
Total Positive:	0	0

7493 Urdal Road.
Adjacent to 7493
Urdal Road

1/11/2021 9:50:00 AM	LT1	LT1
2/22/2021 10:00:00 AM	LT1	LT1
3/1/2021 10:00:00 AM	LT1	LT1
3/15/2021 10:00:00	LT1	LT1

AM		
3/22/2021 10:00:00	LT1	LT1
AM		
4/6/2021 10:00:00	LT1	LT1
AM		
4/12/2021 10:00:00	LT1	LT1
AM		
4/19/2021 10:00:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

7620 Pemberton
Meadows Rd.
Opposite 7620
Pemberton
Meadows Rd

1/4/2021 9:30:00 AM	LT1	LT1
1/11/2021 9:30:00	LT1	LT1
AM		
1/18/2021 9:30:00	LT1	LT1
AM		
2/22/2021 9:40:00	LT1	LT1
AM		
3/1/2021 9:40:00 AM	LT1	LT1
3/8/2021 9:40:00 AM	LT1	LT1
3/15/2021 9:40:00	LT1	LT1
AM		
3/22/2021 9:40:00	LT1	LT1
AM		
3/29/2021 9:00:00	LT1	LT1
AM		
4/6/2021 9:40:00 AM	LT1	LT1
4/12/2021 7:40:00	LT1	LT1
AM		
4/19/2021 7:40:00	LT1	LT1
AM		
4/26/2021 9:40:00	LT1	LT1
AM		
5/3/2021 9:30:00 AM	LT1	LT1
5/10/2021 9:30:00	LT1	LT1
AM		
5/19/2021 8:30:00	LT1	LT1
AM		
5/26/2021 9:30:00	LT1	LT1
AM		
5/31/2021 9:30:00	LT1	LT1
AM		
6/7/2021 9:30:00 AM	LT1	LT1
6/14/2021 9:30:00	LT1	LT1
AM		
6/21/2021 9:40:00	LT1	LT1
AM		
6/29/2021 9:00:00	LT1	LT1
AM		

7/5/2021 10:00:00 AM	LT1	LT1
7/12/2021 8:30:00 AM	LT1	LT1
7/19/2021 8:30:00 AM	LT1	LT1
7/26/2021 9:30:00 AM	LT1	LT1
8/4/2021 9:10:00 AM	LT1	LT1
8/10/2021 9:30:00 AM	LT1	LT1
8/16/2021 9:30:00 AM	LT1	LT1
8/23/2021 9:30:00 AM	QRWRT	QRWRT
8/31/2021 9:30:00 AM	LT1	LT1
9/7/2021 9:30:00 AM	LT1	LT1
9/13/2021 9:30:00 AM	LT1	LT1
9/20/2021 9:40:00 AM	LT1	LT1
9/27/2021 9:30:00 AM	LT1	LT1
10/5/2021 9:30:00 AM	LT1	LT1
10/12/2021 9:30:00 AM	LT1	LT1
10/18/2021 9:30:00 AM	LT1	LT1
10/25/2021 9:30:00 AM	LT1	LT1
11/1/2021 9:30:00 AM	LT1	LT1
11/8/2021 9:30:00 AM	LT1	LT1
11/15/2021 9:20:00 AM	LT1	LT1
11/22/2021 9:30:00 AM	LT1	LT1
11/29/2021 9:30:00 AM	<u>LT1</u>	<u>LT1</u>
Total Positive:	0	0

400-m South of
Collins Road, 400-m
South of Collins
Road

1/4/2021 9:20:00 AM	LT1	LT1
2/22/2021 9:30:00 AM	LT1	LT1
3/1/2021 9:30:00 AM	LT1	LT1
3/8/2021 9:30:00 AM	LT1	LT1
3/15/2021 9:30:00	LT1	LT1

AM		
3/22/2021 9:30:00	LT1	LT1
AM		
4/6/2021 9:30:00 AM	LT1	LT1
4/12/2021 9:30:00	LT1	LT1
AM		
4/19/2021 9:30:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	0		0.00% of total
Samples that contain e. coli:	0		0.00% of total
Samples that contain fecal coliform:	0		0.00% of total
Number of consecutive samples that contain total coliform:	0		
Number of samples that contain total coliform in last 30 days:	0/0		
Total number of samples:	104		

Comments:

Environmental Health Officer
May 25 2022

FOR FURTHER INFORMATION PLEASE CALL: Dan Glover (604) 892-2293