

Pemberton, BC V0N 2L0



Village of Pemberton Water System **Annual Report - 2024**

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 water flow is recorded at the Wellhouse in Pioneer Park. Table 1 provides a comparison of the maximum, minimum, average, and total water flows for 2024 alongside data from the previous two years. Water consumption in 2024 was lower than in previous years, primarily due to cooler temperatures and the early implementation of water restrictions. Additional factors influencing water usage include climate variations, conservation efforts, and proactive leak detection and repairs. For detailed daily flow data, please refer to Appendix I.

Table 1 - Overall Water Consumption Summary

	2022 Consumption	2023 Consumption	2024 Consumption
Average Flow/day:	2,055 m³	2,052 m³	1,810 m³
High Flow/day:	4,295 m³ <i>(July 28, 2022</i>)	4,034 m³ (July 22, 2023)	4054 m³ (July 18, 2024)
Low Flow/day:	1129 m³ (December 9, 2022)	977 m³ (November 28, 2023)	672 m³ (December 17, 2024)
Total Annual	750,002 m³	749,115 m³	663,798 m³

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 - 2023 Chlorine Residual Summary

	Residual (mg/L)
Average:	0.25
High:	0.36
Low:	0.18

To ensure that target chlorine residuals are achieved within the distribution system, the Village also carries out manual sampling at 7 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 sampling for Total Metals, Volatile Organic Compounds, and Trihalomethanes was conducted on April 25, 2024. Samples were collected from several key locations, including Production Wells #2 and #3, the Pemberton Farm Rd. Sample Station, the Ridge Booster Pump and Re-chlorination Station, and the Industrial Park Sample Station. The test results confirm that all parameters are within the Health Canada Maximum Acceptable Concentration (MAC) limits. A gradual increase from previous years in manganese levels has been observed in both Wells #2 and #3 through regular operational testing. While manganese levels have exceeded the aesthetic objective (AO) of 0.02 mg/L (20 μ g/L), they remain below the MAC limit of 120 μ g/L. The average manganese concentrations for Well #2 and Well #3 are 86.5 μ g/L and 53.9 μ g/L, respectively, based on the 9 samples collected in 2024.

In 2024, well redevelopment was completed for both Well #2 and Well #3, with the goal of reducing manganese and iron concentrations in the short term. This redevelopment also contributed to improved pump capacity and the overall health of the wells and aquifer. Following a preliminary water treatment investigation performed in 2021, the Village has successfully been awarded grant funding to design and construct a Water filtration plant to help alleviate these elevated manganese levels. The engineering design is underway, with construction expected to take place in 2026. The Village will also be adding Iron and Manganese testing into our routine weekly water sample package to best monitor the levels going forward. For the full water quality test results from 2024, please refer to Appendix II.

Corrosion Control:

In 2017 the Village constructed a water conditioning plant to adjust the pH of potable water prior to distribution, and therefore reduce risk of corrosion in household plumbing resulting from acidic drinking water. The plant utilizes Sodium Carbonate (Soda Ash) to increase the pH and Alkalinity of Pemberton's well water, prior to distribution. The target pH throughout the distribution system is 7 and an alkalinity between 40 and 80mg/L as measured as CaCO3 (Calcium Carbonate). This is controlled automatically, but weekly samples are also taken for verification and calibration purposes. For results of these weekly samples, 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. The Cross Connection Control program is ongoing.

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

- Ridge Pump Station

Industrial Park (Mount Currie water source)

- Pemberton Meadows Rd.

Pemberton Farm Rd (West)

All results for the 2024 period were negative for Escherichia coli.

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**.

Appendix I

Daily Total Consumption and Chlorine Residual

	Daily Total Consumption and Chlorine Residual									
	20	21	20	022	7	2023	2024			
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2		
		Residual						Residual		
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)		
January										
1	1317	0.14	1303	0.30	1576	0.28	1204	0.19		
2	1286	0.13	1285	0.30	1571	0.31	1358	0.19		
3	1266	0.15	1199	0.31	1556	0.31	1280	0.21		
4	1433	0.16	1230	0.30	1515	0.30	1170	0.23		
5	2470	0.18	1149	0.31	1522	0.30	1428	0.22		
6	1198	0.16	1281	0.30	1493	0.34	1246	0.23		
7	2497	0.22	1174	0.30	1537	0.29	1318	0.22		
8	1698	0.24	1346	0.30	1537	0.25	1324	0.21		
9	1276	0.25	1286	0.24	1393	0.23	1369	0.21		
10	1300	0.27	1310	0.18	1449	0.21	1276	0.22		
11	1087	0.26	1180	0.20	1340	0.22	1181	0.22		
12	1265	0.26	1192	0.24	1547	0.27	1423	0.22		
13	1245	0.26	1243	0.28	1406	0.29	1450	0.21		
14	1264	0.28	1087	0.34	1571	0.27	1504	0.20		
15	1194	0.28	1435	0.35	1365	0.26	1460	0.21		
16	1172	0.29	1664	0.34	1580	0.26	1443	0.22		
17	1238	0.27	1697	0.34	1422	0.32	1407	0.22		
18	1221	0.26	1629		1385	0.29	1445	0.22		
19	1067	0.29	1637	0.35	1532	0.31	1513	0.22		
20	1245	0.29	1607	0.34	1382	0.29	1337	0.22		
21	1251	0.27	1573	0.36	1445	0.26	1292	0.21		
22	1121	0.27	1640	0.34	1422	0.26	1182	0.21		
23	1143	0.25	1657	0.35	1464	0.25	1415	0.23		
24	1150	0.24	1706	0.36	1359	0.25	1286	0.23		
25	1231	0.24	1670	0.36	1381	0.23	1103	0.23		
26	1250	0.25	1673	0.31	1573	0.22	1255	0.23		
27	1239	0.24	1725	0.33	1454	0.24	1264	0.21		
28	1195	0.22	1662	0.33	1540	0.25	1157	0.19		
29	1211	0.27	1644	0.34	1397	0.28	1140	0.19		
30	1263	0.22	1626	0.33	1411	0.29	1193	0.25		
31	1181	0.22	1661	0.34	1567	0.31	1144	0.33		
Monthly Total	40,974	0.24	45,172	0.31	45,694	0.27	40,567	0.22		

	20	21		022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
February								
1	1091	0.22	1651	0.33	1368	0.33	1215	0.32
2	1149	0.21	1608	0.29	1533	0.32	1065	0.31
3	1093	0.19	1584	0.31	1402	0.33	1219	0.31
4	1050	0.19	1597	0.33	1377	0.33	1183	0.31
5	1280	0.20	1701	0.32	1542	0.33	1128	0.27
6	1208	0.21	1670	0.31	1429	0.32	1148	0.26
7	1354	0.22	1697	0.31	1492	0.32	1161	0.25
8	1310	0.24	1603	0.31	1382	0.31	1153	0.26
9	1290	0.24	1673	0.30	1577	0.32	1145	0.27
10	1225	0.23	1589	0.33	1503	0.32	1197	0.26
11	1372	0.26	1653	0.31	1552	0.32	1246	0.26
12	1547	0.24	1677	0.32	1483	0.32	1075	0.25
13	1511	0.28	1650	0.32	1585	0.32	1206	0.26
14	1704	0.27	1568	0.31	1410	0.31	1090	0.26
15	1468	0.27	1744	0.30	1457	0.30	1158	0.25
16	1619	0.29	1516	0.30	1591	0.27	1258	0.25
17	1592	0.29	1690	0.29	1543	0.27	1277	0.27
18	1410	0.29	1542	0.29	1560	0.28	1108	0.28
19	1336	0.32	1626	0.30	1420	0.26	1307	0.27
20	1436	0.30	1700	0.31	1606	0.26	1105	0.27
21	1436	0.30	1678	0.31	1521	0.25	1266	0.27
22	1502	0.29	1809	0.31	1640	0.24	1180	0.27
23	1458	0.27	1678	0.28	1645	0.22	1239	0.27
24	1685	0.30	1681	0.29	1508	0.22	1220	0.23
25	1378	0.33	1667	0.29	1571	0.23	1180	0.22
26	1889	0.34	1782	0.29	1583	0.23	1225	0.22
27	1450	0.35	1656	0.30	1425	0.32	1200	0.23
28	1309	0.33	1652	0.31	1415	0.35	1132	0.20
29							1113	0.20
Monthly Total	39,153	0.27	46,343	0.31	42,118	0.29	34,199	0.26

	20			022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
March								
1	965	0.32	1730	0.32	1388	0.40	1169	0.21
2	1373	0.34	1712	0.26	1442	0.38	1196	0.22
3	1730	0.35	1632	0.37	1384	0.37	1281	0.22
4	1483	0.32	1668	0.33	1414	0.42	1086	0.22
5	1384	0.33	1673	0.37	1460	0.43	1177	0.24
6	1259	0.27	1698	0.47	1432	0.40	1110	0.23
7	1172	0.28	1609	0.48	1345	0.39	1161	0.26
8	1284	0.27	1629	0.29	1489	0.38	1229	0.26
9	1285	0.27	1132	0.28		0.35	1179	0.26
10	1136	0.26	1611	0.27	1325	0.37	1060	0.25
11	1278	0.27	1615	0.33		0.40		0.23
12	1212	0.31	1597	0.33		0.38	1092	0.24
13	1233	0.32	1941	0.32	1449	0.38	1220	0.25
14	1262	0.35	1330	0.30		0.38	1000	0.27
15	1327	0.33	1579	0.35		0.34	1138	0.26
16	1180	0.37	1677	0.36		0.31	1119	0.25
17	1387	0.37	1554	0.36		0.29	1098	0.24
18	1368	0.38	1492	0.36		0.27	982	0.25
19	1336	0.33	1648	0.37	1817	0.19	1043	0.24
20	1284	0.35	1451	0.40		0.23	1102	0.24
21	1177	0.35	1655	0.39		0.29	1054	0.22
22	1255	0.34	2075	0.33		0.31	985	0.20
23	1300	0.35	1522	0.32		0.30	1095	0.20
24	1274	0.33	1653	0.33	1395	0.32	968	0.19
25	1340	0.33	1652	0.34	1331	0.33	1023	0.19
26	1482	0.33	1469	0.32	1378	0.31	1081	0.22
27	1302	0.31	1629	0.34	1496	0.30	1044	0.20
28	1227	0.25	1761	0.35	1283	0.35	1079	0.22
29	1317	0.31	1651	0.33	1420	0.37	1157	0.25
30	1235	0.31	1921	0.34	1341	0.34	1130	0.27
31	1232	0.29	1581	0.35	1287	0.33	1068	0.26
Monthly Total	40,078	0.32	50,547	0.34	43,028	0.34	34,337	0.23

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	20	21	20	022	2	2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
April								
1	1202	0.32	1962	0.36	1301	0.35	1130	0.23
2	1338	0.32	1761	0.36	1425	0.34	1157	0.22
3	1342	0.31	1672	0.36	1425	0.34	1236	0.23
4	1318	0.30	1687	0.37	1526	0.34	1071	0.24
5	1320	0.29	1680	0.37	1728	0.34	1258	0.24
6	1374	0.32	1693	0.36	1539	0.35	1094	0.25
7	1280	0.29	1929	0.36	1419	0.35	1070	0.23
8	1311	0.28	1905	0.36	1364	0.35	1184	0.22
9	1275	0.28	1976	0.35	1339	0.35	1167	0.23
10	1502	0.24	1612	0.34	1353	0.36	1092	0.23
11	1342	0.28	1507	0.34	1388	0.36	1202	0.25
12	1384	0.26	2159	0.33	1474	0.35	1249	0.26
13	1249	0.23	1811	0.32	1348	0.35	1175	0.25
14	1477	0.25	1688	0.31	1234	0.35	1196	0.24
15	1340	0.22	1595	0.32	1317	0.37	1205	0.21
16	1483	0.36	1616	0.31	1454	0.35	1422	0.23
17	1508	0.33	1631	0.31	1268	0.35	1614	0.22
18	1416	0.32	1616	0.30	1253	0.36	1757	0.24
19	1742	0.31	1664	0.31	1322	0.36	1712	0.25
20	1598	0.31	1701	0.30	1157	0.36	1316	0.26
21	1569	0.31	1799	0.33	1269	0.35	1467	0.26
22	1674	0.30	1768	0.33	1340	0.35	1924	0.24
23	1671	0.31	1782	0.33	1158	0.35	2111	0.26
24	1588	0.31	1674	0.35	1344	0.35	1819	0.27
25	1602	0.31	1891	0.33	1222	0.35	1802	0.26
26	1677	0.32	1692	0.34	1406	0.35	1609	0.25
27	1731	0.32	1790	0.33	1554	0.36	1456	0.24
28	1822	0.33	1872	0.33	1601	0.38	1514	0.20
29	1589	0.32	1976	0.35	1716	0.39	1542	0.20
30	1648	0.33	1888	0.35	1830	0.37	1541	0.20
Monthly Total	44,374	0.30	52,994	0.34	42,074	0.35	42,091	0.24

	20	21)22		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
May								
1	1764	0.32	1944	0.37	1949	0.36	1579	0.21
2	2008	0.33	2108	0.38	1742	0.37	1850	0.21
3	1922	0.32	2068	0.33	1964	0.35	1931	0.20
4	1907	0.34	1931	0.33	1955	0.35	1892	0.21
5	2191	0.35	1969	0.32	2340	0.35	2015	0.25
6	1976	0.34	1769	0.33	2151	0.35	1797	0.26
7	1991	0.27	2360	0.33	1791	0.35	2005	0.27
8	2269	0.26	2098	0.32	1942	0.36	2047	0.30
9	1959	0.25	2037	0.33	1995	0.32	2338	0.28
10	2370	0.26	1748	0.33	2221	0.33	2609	0.29
11	2237	0.27	2031	0.31	2576	0.34	2811	0.28
12	2398	0.28	2013	0.31	2184	0.34	2735	0.29
13	2078	0.28	1884	0.32	2467	0.34	2559	0.29
14	2444	0.29	1772	0.31	2505	0.33	2699	0.30
15	2406	0.30	1683	0.31	2984	0.33	2883	0.29
16	2540	0.29	1961	0.32	2870	0.34	2264	0.27
17	2778	0.29	1594	0.31	3012	0.35	2496	0.26
18	2102	0.30	1583	0.31	3243	0.35	2358	0.27
19	2087	0.29	1615	0.31	3019	0.34	2579	0.26
20	2005	0.28	1573	0.33	3241	0.37	2693	0.25
21	2270	0.28	1719	0.32	3387	0.34	2474	0.24
22	2610	0.28	1750	0.32	3249	0.35	2275	0.25
23	2682	0.29	2006	0.32	2830	0.36	2467	0.21
24	2547	0.30	2136	0.34	2531	0.38	2150	0.21
25	2579	0.29	1900	0.34	2721	0.34	2186	0.25
26	2588	0.31	1868	0.32	3072	0.34	2131	0.25
27	2819	0.25	1855	0.32	3309	0.37	2191	0.22
28	2291	0.26	1722	0.31	3126	0.30	1899	0.23
29	2162	0.26	1881	0.31	3509	0.28	1959	0.25
30	2644	0.27	2190	0.31	3349	0.31	1953	0.25
31	2711	0.29	2018	0.31	2987	0.31	2233	0.24
Monthly Total	71,333	0.29	58,787	0.32	82,221	0.34	70,059	0.25

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		21		022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
June								
1	1743	0.29	1944	0.30		0.33	1962	0.25
2	3183	0.29	2135	0.31	2350	0.34	2082	0.28
3	3963	0.14	2229	0.33	3212	0.36	1894	0.30
4	3043	0.26	2008	0.33	3291	0.38	1839	0.31
5	2602	0.27	2000	0.32	3466	0.40	1909	0.28
6	2628	0.28	2191	0.31	3370	0.40	2372	0.30
7	2444	0.27	2019	0.31	3581	0.25	2525	0.31
8	2474	0.27	2233	0.32	3661	0.40	2594	0.33
9	2483	0.28	2084	0.33	3759	0.39	2901	0.33
10	2464	0.29	2166	0.32	3319	0.39	2642	0.32
11	2463	0.30	1988	0.30	2889	0.36	2104	0.34
12	2603	0.32	2103	0.32	3277	0.33	2509	0.32
13	2589	0.33	2636	0.33	3449	0.32	2615	0.31
14	2284	0.32	2314	0.33	3166	0.30	2460	0.36
15	2036	0.32	2344	0.32	2627	0.30	2333	0.34
16	2135	0.33	2300	0.31	2921	0.30	2432	0.32
17	2237	0.31	2319	0.30		0.32	2180	0.32
18	2979	0.33	2271	0.29		0.30	2234	0.31
19	2803	0.33	2149	0.27	2805	0.30	2612	0.34
20	2741	0.34	2314	0.27	2605	0.30	2771	0.36
21	3006	0.32	2401	0.35	2319	0.27	2996	0.34
22	3464	0.29	2132	0.37	2436	0.30	2694	0.35
23	3441	0.33	2098	0.34	2446	0.31	2781	0.35
24	3825	0.33	2673	0.37	3100	0.26	2729	0.35
25	3543	0.31	2868	0.37	2671	0.26	2606	0.36
26	3603	0.32	2898	0.36	2890	0.31	2851	0.34
27	3633	0.34	3393	0.37	3177	0.34	2271	0.31
28	3846	0.28	3094	0.37	3610	0.35	2314	0.34
29	4246	0.28	2655	0.35	4018	0.34	2398	0.35
30	3911	0.26	2679	0.33	3840	0.28	2621	0.34
Monthly Total	88,414	0.30	70,638	0.33	92,021	0.33	73,232	0.33

	20	21		022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
July								
1	4253	0.40	3066	0.35	3736	0.36	2505	0.34
2	4208	0.40	3135	0.34	3592	0.35	2633	0.35
3	3611	0.37	3007	0.30	3705	0.24	2994	0.36
4	3629	0.39	2794	0.31	3736	0.27	3109	0.34
5	3768	0.41	2121	0.19	3817	0.36	3090	0.32
6	3954	0.41	2185	0.20	3913	0.34	3535	0.32
7	3991	0.41	2620	0.24	3957	0.28	3685	0.31
8	3747	0.41	2377	0.28	3679	0.31	3725	0.32
9	3708	0.41	2428	0.28		0.32	3511	0.31
10	3822	0.40	2455	0.29		0.34	3796	0.33
11	3757	0.42	2886	0.29		0.35	3972	0.34
12	3948	0.44	2717	0.30		0.33	3650	0.36
13	3866	0.37	2755	0.30	3786	0.29	3428	0.34
14	4111	0.37	3010	0.29	3416	0.29	3697	0.34
15	4070	0.35	3265	0.30	3809	0.32	3719	0.36
16	4255	0.35	2732	0.31	3762	0.31	3754	0.35
17	3920	0.34	2607	0.32	3745	0.27	3949	0.34
18	3570	0.30	2727	0.31	3349	0.30	4054	0.31
19	3522	0.33	2846	0.30	3375	0.28	3889	0.30
20	3748	0.30	2900	0.31	3873	0.32	3579	0.30
21	3724	0.34	3277	0.31	4008	0.29	3648	0.31
22	3827	0.33	3460	0.38		0.26	3516	0.30
23	3797	0.35	3322	0.37	3806	0.24	3576	0.34
24	1814	0.31	3181	0.34	3819	0.24	3612	0.32
25	3566	0.32	3346	0.34	3079	0.25	3516	0.26
26	3509	0.32	3298	0.33	2732	0.28	3398	0.28
27	3717	0.34	4111	0.35	2917	0.32	3215	0.27
28	3778	0.33	4295	0.37	3460	0.23	3382	0.26
29	4127	0.34	4064	0.34	3506	0.29	2901	0.24
30	3984	0.34	3952	0.34	3536	0.20	2726	0.26
31	3872	0.34	3811	0.35	3767	0.26	3387	0.25
Monthly Total	117,172	0.36	94,751	0.31	113,310	0.29	107,154	0.31

	20	21		022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
August								
1	3359	0.34	3871	0.35	3405	0.31	3848	0.26
2	3087	0.32	3602	0.34		0.31	3323	0.28
3	3403	0.33	3643	0.33		0.28	3231	0.27
4	3653	0.36	3085	0.33	3411	0.30	3311	0.25
5	3917	0.35	2348	0.34	3537	0.34	3073	0.24
6	3994	0.36	2621	0.33	3541	0.30	3053	0.24
7	3314	0.30	3102	0.33	3549	0.29	3251	0.23
8	2785	0.33	3427	0.33	3357	0.30	3362	0.24
9	2629	0.35	3477	0.34	2764	0.26	3140	0.24
10	2931	0.36	3032	0.34	2639	0.25	2385	0.22
11	3125	0.36	3241	0.33		0.30	2658	0.21
12	3862	0.37	3350	0.35	3112	0.28	3449	0.21
13	4264	0.37	3524	0.34	3591	0.27	3207	0.24
14	3753	0.37	3207	0.32	3583	0.26	3239	0.26
15	3523	0.37	3723	0.32	3586	0.30	3677	0.27
16	3101	0.37	3257	0.31	3496	0.30	3182	0.27
17	3061	0.37	3415	0.30		0.29	3105	0.26
18	2599	0.35	3538	0.28	3846	0.28	2863	0.22
19	2858	0.35	3425	0.33	3571	0.31	2635	0.20
20	3460	0.35	3313	0.30		0.30	2653	0.20
21	2574	0.35	3325	0.32		0.29	2615	0.20
22	2131	0.34	3567	0.35		0.29	2701	0.24
23	2455	0.34	3374	0.34	3003	0.29	2510	0.26
24	2196	0.32	3287	0.34	2866	0.28	1956	0.25
25	2525	0.31	3455	0.32	3140	0.27	2399	0.19
26	2741	0.35	3371	0.34	2889	0.25	2246	0.20
27	2748	0.34	3377	0.29	2813	0.26	1962	0.20
28	2497	0.35	3020	0.28		0.25	2202	0.19
29	2644	0.35	3331	0.29	2872	0.28	2404	0.20
30	2788	0.34	3125	0.27	2385	0.26	2701	0.21
31	2595	0.34	3000	0.27	2543	0.26	2540	0.22
Monthly Total	94,573	0.35	102,434	0.32	99,459	0.28	88,881	0.23

				imption and Chi				
		21	20	022	7	2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
September								
1	2420	0.33	3393	0.27	2434	0.26	2824	0.21
2	2502	0.33	3353	0.25	2254	0.23	2805	0.18
3	2682	0.33	3505	0.26		0.22	2609	0.21
4	2686	0.34	3155	0.24		0.22	2881	0.23
5	2317	0.33	3001	0.25		0.28	2935	0.19
6	2227	0.33	2657	0.24		0.28	2954	0.22
7	2479	0.33	2281	0.28		0.28	2613	0.23
8	2499	0.34	3629	0.32	2739	0.26	2936	0.21
9	2253	0.34	3358	0.33	2478	0.24	2707	0.20
10	2418	0.40	2869	0.32	2618	0.21	2533	0.22
11	2302	0.34	3121	0.32	2568	0.22	2429	0.22
12	2133	0.33	3011	0.30	2324	0.20	2613	0.23
13	2317	0.32	3049	0.32	2149	0.24	2427	0.23
14	2222	0.33	2806	0.32	2363	0.29	2348	0.22
15	2079	0.32	2826	0.29	2966	0.30	2203	0.20
16	1893	0.30	2826	0.30	3256	0.30	2357	0.18
17	1863	0.30	2601	0.30	2930	0.26	2017	0.21
18	1764	0.30	2387	0.28		0.26	2631	0.21
19	1622	0.30	2649	0.29		0.23	2448	0.22
20	1474	0.28	2461	0.28		0.19	2789	0.25
21	1462	0.28	2614	0.28		0.24	2149	0.25
22	1543	0.28	2590	0.30	2925	0.27	2212	0.22
23	1589	0.28	2453	0.32	2365	0.23	1914	0.21
24	1630	0.27	2362	0.33	2188	0.22	1894	0.24
25	1474	0.27	2443	0.33	2177	0.23	1857	0.26
26	1600	0.27	2403	0.33	1885	0.25	1893	0.29
27	1444	0.26	2380	0.34	2094	0.23	1789	0.29
28	1202	0.26	2310	0.33	1686	0.22	1500	0.28
29	1324	0.26	2532	0.35	1634	0.21	1290	0.25
30	1590	0.27	2083	0.32	1675	0.20	1512	0.25
Monthly Total	59,010	0.31	83,111	0.30	72,577	0.24	70,069	0.23

	20			022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
October								
1	2301	0.29	2279	0.33	1620	0.19	1309	0.24
2	1356	0.29	2086	0.32	1644	0.19	1436	0.25
3	1320	0.28	2390	0.32	1592	0.18	1725	0.28
4	1356	0.27	2160	0.30	1519	0.21	2108	0.29
5	1265	0.27	2244	0.30		0.20	1981	0.29
6	1301	0.27	2162	0.33	1664	0.31	2021	0.28
7	1301	0.26	2171	0.31	1827	0.30	1550	0.26
8	1230	0.26	2122	0.31	1521	0.25	1388	0.29
9	1382	0.25	2160	0.31	1523	0.23	1318	0.31
10	1244	0.26	2133	0.31	2475	0.24	1138	0.28
11	1228	0.26	2011	0.32		0.26	1288	0.26
12	1279	0.25	2050	0.32		0.29	1335	0.24
13	1354	0.33	2093	0.31	1435	0.24	1200	0.24
14	1235	0.40	1843	0.31	1469	0.25	1288	0.23
15	1163	0.39	1928	0.30		0.19	1096	0.22
16	1165	0.37	2135	0.30		0.19	1196	0.25
17	1178	0.34	2479	0.29	1466	0.24	1127	0.23
18	1170	0.31	1764	0.29	1283	0.23	1225	0.19
19	1201	0.31	1677	0.29		0.22	1239	0.26
20	1270	0.31	1734	0.29		0.21	1182	0.24
21	1226	0.32	1539	0.28		0.25	1111	0.24
22	1278	0.31	1541	0.27	1246	0.23	1122	0.22
23	1223	0.34	1446	0.22		0.29	1283	0.33
24	1130	0.32	1559	0.24	1396	0.29	1005	0.32
25	1100	0.32	1507	0.24	1346	0.31	1209	0.30
26	1156	0.31	1488	0.27	1354	0.26	1025	0.29
27	1434	0.33	1368	0.28		0.23	1111	0.26
28	1370	0.31	1338	0.29	1334	0.24	1077	0.25
29	1152	0.29	1301	0.30	1380	0.23	1198	0.26
30	1231	0.31	1372	0.29	1369	0.33	1048	0.27
31	1197	0.27	1258	0.30	1305	0.27	1086	0.25
Monthly Total	39,798	0.30	57,333	0.30	45,671	0.24	40,423	0.26

	20			022		2023	2024	
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
		Residual						Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
November								
1	1195	0.28	1354	0.29	1211	0.24	1216	0.27
2	1381	0.28	1452	0.30	1282	0.25	1106	0.26
3	1437	0.28	1339	0.30		0.23	1209	0.24
4	1498	0.29	1366	0.30	1109	0.24	1103	0.25
5	1085	0.28	1310	0.30	1195	0.23	973	0.24
6	1049	0.27	1195	0.30	1157	0.24	1045	0.23
7	1195	0.27	1358	0.29	1231	0.30	1051	0.23
8	1084	0.26	1195	0.29	1227	0.28	1081	0.22
9	1212	0.27	1310	0.29	1172	0.24	1110	0.29
10	1031	0.34	1666	0.29	1124	0.28	1042	0.29
11	1288	0.35	1461	0.29	1225	0.23	1030	0.27
12	1090	0.34	1282	0.31	1143	0.24	1098	0.27
13	1048	0.35	1352	0.32	1164	0.20	1053	0.28
14	1069	0.35	1331	0.32	1267	0.22	1049	0.27
15	1109	0.34	1461	0.33	1143	0.21	1184	0.25
16	1016	0.32	1370	0.34	1209	0.22	1038	0.22
17	1193	0.33	1524	0.34	1163	0.21	1024	0.19
18	1072	0.35	1499	0.31	1152	0.19	1013	0.19
19	1121	0.33	1338	0.31	1205	0.18	1072	0.22
20	1021	0.34	1517	0.31	1200	0.21	1041	0.23
21	1051	0.34	1397	0.29	1121	0.28	1058	0.24
22	1186	0.32	1415	0.29	1039	0.29	1070	0.25
23	1039	0.30	1334	0.38	1193	0.28	1039	0.24
24	1084	0.32	1402	0.36	1139	0.32	1080	0.23
25	1043	0.31	1436	0.35	1225	0.32	1045	0.22
26	963	0.31	1402	0.33	1272	0.26	1015	0.26
27	1068	0.31	1571	0.34	1406	0.32	1035	0.26
28	995	0.31	1391	0.33	977	0.29	1055	0.28
29	1173	0.32	1439	0.34	1137	0.34	1131	0.24
30	1078	0.32	1402	0.33	1176	0.24	1030	0.25
Monthly Total	33,875	0.31	41,868	0.32	35,469	0.25	32,096	0.25

	2021			imption and Chi		2023	2024	,
Date	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2	Daily	Daily Cl2
	,	Residual	,				,	Residual
	Cubic metre	(ppm)	Cubic metre	Residual (ppm)	Cubic metre	Residual (ppm)	Cubic metre	(ppm)
December								
1	920	0.33	1449	0.34	1142	0.25	1074	0.21
2	1051	0.35	1414	0.32	1243	0.28	1025	0.24
3	1054	0.34	1402	0.33	1620	0.29	964	0.23
4	843	0.35	1364	0.31	1239	0.33	1186	0.23
5	972	0.33	1311	0.29	1190	0.27	1046	0.22
6	1032	0.33	1544	0.27	986	0.23	1161	0.24
7	995	0.37	1411	0.29		0.28	1043	0.21
8	1148	0.38	1443	0.32	1053	0.31	1039	0.20
9	969	0.43	1129	0.31	1174	0.25	1063	0.22
10	1042	0.34	1511	0.29	1098	0.25	1067	0.22
11	1050	0.35	1394	0.28		0.26	1156	0.22
12	1022	0.35	1452	0.29		0.30	1051	0.23
13	1015	0.34	1360	0.32		0.25	858	0.22
14	1163	0.39	1539	0.32		0.20	722	0.20
15	1015	0.32	1292	0.31	1100	0.25	734	0.18
16	1046		1431	0.29		0.22	823	0.19
17	1134	0.34	1462	0.28		0.23	672	0.23
18	1063	0.33	1410	0.27	1155	0.25	809	0.23
19	1054	0.32	1586	0.26		0.24	1023	0.21
20	1200	0.32	1435	0.26		0.20	1014	0.21
21	1140	0.33	1616	0.27	1120	0.24	969	0.21
22	1145	0.34	1478	0.26		0.22	970	0.18
23	1137	0.35	1505	0.29		0.26	1102	0.21
24	1086	0.34	1594	0.29		0.24	997	0.20
25	1287	0.34	1639	0.31	1019	0.24	1036	0.21
26	1189	0.32	1526	0.31	1053	0.27	988	0.25
27	1192	0.31	1718	0.31	1094	0.23	994	0.24
28	1250	0.30	1773	0.30	1223	0.22	1004	0.26
29	1253	0.30	1572	0.30		0.21	1038	0.29
30	1271	0.29	1641	0.31	1376	0.20	1020	0.27
31	1235	0.30	1624	0.29	1203	0.21	1043	0.23
Monthly Total	33,972	0.34	46,024	0.30	35,473	0.25	30,691	0.22
2020 Total m3	702,727		750,002		749,115		663,798	
Daily Average	1,920	0.31	2057	0.32		0.29	1814	0.25
Max Day	4,264	0.44				0.43	4054	0.36
Min Day	843	0.13	1129	0.18	977	0.18	672	0.18

Appendix II

2024 Annual Chemical Analysis of Drinking Water



Your C.O.C. #: C#716107-01-01

Attention: Reece Clark

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

Report Date: 2024/02/06

Report #: R3459693 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C407253 Received: 2024/02/02, 08:35

Sample Matrix: Drinking Water # Samples Received: 4

Date Date **Quantity Extracted** Analyzed **Analyses Laboratory Method Analytical Method** Alkalinity @25C (pp, total), CO3,HCO3,OH 4 N/A 2024/02/02 BBY6SOP-00026 SM 24 2320 B m Chloride/Sulphate by Auto Colourimetry 4 2024/02/02 BBY6SOP-00011 / SM24-4500-CI/SO4-E m N/A BBY6SOP-00017 Color (True) by Automated Analyzer 4 N/A 2024/02/02 BBY6SOP-00057 SM 24 2120 C m Conductivity @25C 4 N/A 2024/02/02 BBY6SOP-00026 SM 24 2510 B m Fluoride 4 N/A 2024/02/02 BBY6SOP-00037 SM 24 4500-F C m Hardness Total (calculated as CaCO3) (1) N/A 2024/02/05 BBY WI-00033 Auto Calc 2024/02/02 2024/02/02 AB SOP-00084 Mercury (Total) by CV 4 BCMOE BCLM Oct2013 m 4 Na, K, Ca, Mg, S by CRC ICPMS (total) N/A 2024/02/05 BBY WI-00033 Auto Calc Elements by CRC ICPMS (total) 4 N/A 2024/02/02 BBY7SOP-00003 / EPA 6020b R2 m BBY7SOP-00002 Nitrate + Nitrite (N) 4 N/A 2024/02/02 BBY6SOP-00010 SM 24 4500-NO3- H m Nitrite (N) Regular Level Water 4 N/A 2024/02/02 BBY6SOP-00010 SM 24 4500-NO2- m Nitrogen - Nitrate (as N) 4 N/A 2024/02/02 BBY WI-00033 Auto Calc pH @25°C (2) 4 N/A 2024/02/02 BBY6SOP-00026 SM 24 4500-H+ B m Total Dissolved Solids (Filt. Residue) 4 2024/02/05 2024/02/06 BBY6SOP-00033 SM 24 2540 C m Turbidity 4 N/A 2024/02/02 BBY6SOP-00027 SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water

Your C.O.C. #: C#716107-01-01

Attention: Reece Clark

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

Report Date: 2024/02/06

Report #: R3459693 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C407253 Received: 2024/02/02, 08:35

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 Bureau Veritas, 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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas 06 Feb 2024 11:22:16

Please direct all questions regarding this Certificate of Analysis to: Customer Solutions, Western Canada Customer Experience Team Email: customersolutionswest@bureauveritas.com Phone# (604) 734 7276

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VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CIM489	CIM490	CIM491			
Sampling Date					2024/01/31	2024/01/31	2024/01/31			
Sampling Date					08:30	08:45	09:00			
COC Number					C#716107-01-01	C#716107-01-01	C#716107-01-01			
	UNITS	MAC	AO	OG	WELL#2	WELL#3	RIDGE	RDL	QC Batch	
ANIONS										
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	B272507	
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	-	-	-	74.9	32.9	34.4	0.50	B272120	
Nitrate (N)	mg/L	10	-	-	0.287	0.164	0.167	0.020	B272117	
Misc. Inorganics						•		•		
Conductivity	uS/cm	-	-	-	270	110	200	2.0	B272535	
рН	pН	-	-	7.0:10.5	6.75	6.22	6.89	N/A	B272528	
Total Dissolved Solids	mg/L	-	500	-	170	70	120	10	B274436	
Anions										
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B272532	
Alkalinity (Total as CaCO3)	mg/L	-	-	-	36	20	60	1.0	B272532	
Bicarbonate (HCO3)	mg/L	-	-	-	44	25	74	1.0	B272532	
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B272532	
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B272584	
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B272532	
Chloride (Cl)	mg/L		250	-	41	11	13	1.0	B272740	
Sulphate (SO4)	mg/L	-	500	-	21	10	11	1.0	B272740	
MISCELLANEOUS							•			
True Colour	Col. Unit	1	15	-	<2.0	2.3	<2.0	2.0	B272503	
Nutrients										
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.287	0.164	0.167	0.020	B272505	
Physical Properties					-		-			
Turbidity	NTU	see remark	see remark	see remark	0.40	<0.10	<0.10	0.10	B272560	
No Fill No Exceedance										
Grey Exceeds 1 criteria policy/level										
Black Exceeds both criteria/levels										
RDL = Reportable Detection Limit										
N/A = Not Applicable										

N/A = Not Applicable



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CIM492		
Sampling Date					2024/01/31 09:15		
COC Number					C#716107-01-01		
	UNITS	MAC	AO	OG	FORM RD	RDL	QC Batch
ANIONS			•				
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	B272507
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	-	-	-	34.6	0.50	B272120
Nitrate (N)	mg/L	10	-	-	0.380	0.020	B272117
Misc. Inorganics							
Conductivity	uS/cm	-	-	-	200	2.0	B272535
pН	pН	-	-	7.0:10.5	7.03	N/A	B272528
Total Dissolved Solids	mg/L	-	500	-	100	10	B274436
Anions							
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	B272532
Alkalinity (Total as CaCO3)	mg/L	-	-	-	61	1.0	B272532
Bicarbonate (HCO3)	mg/L	-	-	-	74	1.0	B272532
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	B272532
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	B272584
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	B272532
Chloride (Cl)	mg/L		250	-	13	1.0	B272740
Sulphate (SO4)	mg/L	-	500	-	11	1.0	B272740
MISCELLANEOUS							
True Colour	Col. Unit	-	15	-	<2.0	2.0	B272503
Nutrients							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.380	0.020	B272505
Physical Properties							
Turbidity	NTU	see remark	see remark	see remark	0.20	0.10	B272560
No Fill No Ex	ceedance						
Grey Excee	ds 1 criteria	policy/level					
Black Excee	ds both crite	ria/levels					
RDL = Reportable Detection Limit							
N/A = Not Applicable							



VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID				CIM489	CIM490	CIM491	CIM492		
Sampling Date				2024/01/31 08:30	2024/01/31 08:45	2024/01/31 09:00	2024/01/31 09:15		
COC Number				C#716107-01-01	C#716107-01-01	C#716107-01-01	C#716107-01-01		
		UNITS	MAC	WELL#2	WELL#3	RIDGE	FORM RD	RDL	QC Batch
Elements									
Total Mercury (Hg) ug/L 1 0.0186 0.0176 0.0213 0.0193 0.0019 B							B272153		
No Fill	No Ex	ceedar	ice						
Grey	Excee	ds 1 cri	iteria p	oolicy/level					
Black	Excee	ds both	r criter	ria/levels					
RDL = Reportable Dete	ction Li	mit							



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CIM489	CIM490	CIM491	CIM492		
Sampling Date					2024/01/31 08:30	2024/01/31 08:45	2024/01/31 09:00	2024/01/31 09:15		
COC Number					C#716107-01-01	C#716107-01-01	C#716107-01-01	C#716107-01-01		
	UNITS	MAC	AO	OG	WELL#2	WELL#3	RIDGE	FORM RD	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (AI)	ug/L	2900	-	100	6.4	8.2	4.2	24.2	3.0	B272413
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B272413
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B272413
Total Barium (Ba)	ug/L	2000	-	-	48.5	21.2	20.9	22.4	1.0	B272413
Total Boron (B)	ug/L	5000	-	-	126	<50	<50	<50	50	B272413
Total Cadmium (Cd)	ug/L	7	-	-	0.018	0.028	<0.010	0.098	0.010	B272413
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B272413
Total Cobalt (Co)	ug/L	-	-	-	0.20	0.22	<0.20	<0.20	0.20	B272413
Total Copper (Cu)	ug/L	2000	1000	1	1.73	3.36	4.24	7.55	0.20	B272413
Total Iron (Fe)	ug/L	-	300	1	183	32.3	30.7	38.9	5.0	B272413
Total Lead (Pb)	ug/L	5	-	-	<0.20	0.77	0.21	<0.20	0.20	B272413
Total Manganese (Mn)	ug/L	120	20	-	82.7	65.9	7.6	18.9	1.0	B272413
Total Molybdenum (Mo)	ug/L	-	-	1	2.4	<1.0	<1.0	<1.0	1.0	B272413
Total Nickel (Ni)	ug/L	-	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B272413
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B272413
Total Silver (Ag)	ug/L	-	-	١	<0.020	<0.020	<0.020	<0.020	0.020	B272413
Total Strontium (Sr)	ug/L	7000	-	-	174	68.0	69.6	70.9	1.0	B272413
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B272413
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B272413
Total Zinc (Zn)	ug/L	-	5000	١	26.4	6.3	6.1	<5.0	5.0	B272413
Total Calcium (Ca)	mg/L	-	-	-	27.3	12.0	12.5	12.6	0.050	B272118
Total Magnesium (Mg)	mg/L	-	-	-	1.63	0.711	0.755	0.760	0.050	B272118
Total Potassium (K)	mg/L	-	-	-	2.64	1.06	1.11	1.11	0.050	B272118
Total Sodium (Na)	mg/L	-	200	-	15.8	5.08	24.8	25.0	0.050	B272118
Total Sulphur (S)	mg/L	-	-	-	6.8	3.4	3.5	3.6	3.0	B272118
								·		

No Fill Grey No Exceedance

Exceeds 1 criteria policy/level

Black Exceeds both criteria/levels

RDL = Reportable Detection Limit



VILLAGE OF PEMBERTON

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 2022.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B272153	Total Mercury (Hg)	2024/02/02	84	80 - 120	66	80 - 120	<0.0019	ng/L	0.58	20
B272413	Total Aluminum (Al)	2024/02/02	86	80 - 120	100	80 - 120	<3.0	ng/L	NC	20
B272413	Total Antimony (Sb)	2024/02/02	86	80 - 120	97	80 - 120	<0.50	1/Bn	NC	20
B272413	Total Arsenic (As)	2024/02/02	102	80 - 120	102	80 - 120	<0.10	ng/L	NC	20
B272413	Total Barium (Ba)	2024/02/02	100	80 - 120	100	80 - 120	<1.0	ng/L	NC	20
B272413	Total Boron (B)	2024/02/02	26	80 - 120	96	80 - 120	<50	ng/L	NC	20
B272413	Total Cadmium (Cd)	2024/02/02	86	80 - 120	86	80 - 120	<0.010	ng/L	NC	20
B272413	Total Chromium (Cr)	2024/02/02	96	80 - 120	98	80 - 120	<1.0	ng/L	NC	20
B272413	Total Cobalt (Co)	2024/02/02	93	80 - 120	95	80 - 120	<0.20	ng/L	2.1	20
B272413	Total Copper (Cu)	2024/02/02	16	80 - 120	92	80 - 120	<0.20	7/Bn	2.8	20
B272413	Total Iron (Fe)	2024/02/02	100	80 - 120	97	80 - 120	<5.0	ng/L	NC	20
B272413	Total Lead (Pb)	2024/02/02	26	80 - 120	96	80 - 120	<0.20	7/Bn	NC	20
B272413	Total Manganese (Mn)	2024/02/02	26	80 - 120	66	80 - 120	<1.0	ng/L	NC	20
B272413	Total Molybdenum (Mo)	2024/02/02	101	80 - 120	100	80 - 120	<1.0	7/8n	NC	20
B272413	Total Nickel (Ni)	2024/02/02	98	80 - 120	97	80 - 120	<1.0	ng/L	0.25	20
B272413	Total Selenium (Se)	2024/02/02	100	80 - 120	66	80 - 120	<0.10	1/Bn	3.9	20
B272413	Total Silver (Ag)	2024/02/02	26	80 - 120	86	80 - 120	<0.020	1/Bn	NC	20
B272413	Total Strontium (Sr)	2024/02/02	101	80 - 120	102	80 - 120	<1.0	7/8n	0.19	20
B272413	Total Uranium (U)	2024/02/02	66	80 - 120	100	80 - 120	<0.10	ng/L	NC	20
B272413	Total Vanadium (V)	2024/02/02	26	80 - 120	66	80 - 120	<5.0	1/Bn	NC	20
B272413	Total Zinc (Zn)	2024/02/02	26	80 - 120	66	80 - 120	<5.0	ng/L	NC	20
B272503	True Colour	2024/02/02			101	80 - 120	<2.0	Col. Unit	NC	20
8272505	Nitrate plus Nitrite (N)	2024/02/02	113	80 - 120	108	80 - 120	<0.020	mg/L	1.4	25
8272507	Nitrite (N)	2024/02/02	79 (1)	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
8272528	рН	2024/02/02			100	97 - 103			0.093	N/A
B272532	Alkalinity (PP as CaCO3)	2024/02/02					<1.0	mg/L	NC	20
8272532	Alkalinity (Total as CaCO3)	2024/02/02			88	80 - 120	<1.0	mg/L	0.54	20
8272532	Bicarbonate (HCO3)	2024/02/02					<1.0	mg/L	0.54	20
8272532	Carbonate (CO3)	2024/02/02					<1.0	mg/L	NC	20
B272532	Hydroxide (OH)	2024/02/02					<1.0	mg/L	NC	20
8272535	Conductivity	2024/02/02			101	90 - 110	<2.0	uS/cm	0.15	10
B272560	Turbidity	2024/02/02			97	80 - 120	<0.10	NTO	NC	20
B272584	Dissolved Fluoride (F)	2024/02/02	107	80 - 120	105	80 - 120	<0.050	mg/L	NC	20
B272740	Chloride (Cl)	2024/02/02	107	80 - 120	95	80 - 120	<1.0	mg/L	NC	20

Page 8 of 10

Bureau Veritas Burnaby: 4606 Canada Way VSG 1KS Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spik	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B272740	Sulphate (SO4)	2024/02/02	66	80 - 120	26	80 - 120	<1.0	mg/L	NC	20
B274436	B274436 Total Dissolved Solids	2024/02/06	102	80 - 120	66	80 - 120	<10	mg/L	5.7	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.

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.

Project Information C31790 E SPECIFIC)	Outdition # Propot # Propot # Propot # Samped By AWALYSIS PREQUESTED (PLEASE BE	Metric Matrix	S\$ 5 EMS C C C C C C C C C C C C C C C C C C C	Recc Clerk Report information Recc Clerk Recc Clerk
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		Special Institutions Special Institutions Special Institutions SP Or A	Address Ree Contrany Nature Ree Contrany Nature Ree Contrany Nature Ree Contrany Nature Rea Contrany Nature Service Remail Recker Service Pleat Remail Recker Pleat Representation of the Sampled Recker Pleat Representation of the Sampled Recker Representation of the Sampled Samp	AGE OF PEMBERTON Solution Varies Proposed St. Proposed



Your Project #: DW kits without Micro

Your C.O.C. #: 718396-01-01

Attention: Reece Clark

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

Report Date: 2024/03/07

Report #: R3472291 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C414646 Received: 2024/03/01, 10:25

Sample Matrix: Drinking Water

Samples Received: 4

# Jampies Neceived. 4					
		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	3	N/A	2024/03/01	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2024/03/02	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/03/05	BBY6SOP-00011 /	SM24-4500-CI/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A	2024/03/01	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	3	N/A	2024/03/01	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	1	N/A	2024/03/02	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/03/04	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/03/06	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/03/04	2024/03/04	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/03/06	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/03/05	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A	2024/03/01	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/03/01	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/03/01	BBY WI-00033	Auto Calc
pH @25°C (2)	3	N/A	2024/03/01	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (2)	1	N/A	2024/03/02	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/03/05	2024/03/06	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/03/01	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Your Project #: DW kits without Micro

Your C.O.C. #: 718396-01-01

Attention: Reece Clark

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

Report Date: 2024/03/07

Report #: R3472291 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C414646

Received: 2024/03/01, 10:25

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas

Please direct all questions regarding this Certificate of Analysis to: Customer Solutions, Western Canada Customer Experience Team Email: customersolutionswest@bureauveritas.com Phone# (604) 734 7276

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Bureau Veritas Job #: C414646 Report Date: 2024/03/07

VILLAGE OF PEMBERTON Client Project #: DW kits without Micro

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CKC155	CKC156	CKC157		
Complian Data					2024/02/09	2024/02/09	2024/02/09		
Sampling Date					09:00	09:30	10:00		
COC Number					718396-01-01	718396-01-01	718396-01-01		
	UNITS	MAC	AO	OG	RIDGE	FARM RD	WELL#2	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050 (1)	<0.0050	0.0050	B301068
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	34.7	33.6	71.3	0.50	B300337
Nitrate (N)	mg/L	10	-	-	0.209	0.211	0.244	0.020	B300299
Misc. Inorganics	•							•	
Conductivity	uS/cm	-	-	-	200	190	270	2.0	B301079
рН	pН	-	-	7.0:10.5	7.23	7.26	6.65	N/A	B301077
Total Dissolved Solids	mg/L	-	500	-	100	110	160	10	B303874
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B301078
Alkalinity (Total as CaCO3)	mg/L	-	-	-	62	60	35	1.0	B301078
Bicarbonate (HCO3)	mg/L	-	-	-	75	74	43	1.0	B301078
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B301078
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B302589
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B301078
Chloride (Cl)	mg/L	-	250	-	16	15	43	1.0	B302510
Sulphate (SO4)	mg/L	-	500	-	10	10	19	1.0	B302510
MISCELLANEOUS					•		•		
True Colour	Col. Unit	-	15	-	<2.0	<2.0	<2.0	2.0	B300457
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.209	0.211 (1)	0.244	0.020	B301067
Physical Properties					•		-		
Turbidity	NTU	see remark	see remark	see remark	0.11	0.30	0.21	0.10	B301008
No Fill	No Exceedance	e		-	•		-		
Grey Exceeds 1 criteria policy/level									
Black Exceeds both criteria/levels									
RDL = Reportable Detection Limit									
N/A = Not Applicable									
(1) Matrix spike exceeds a	cceptance lim	its due to ma	atrix interfere	ence.					

(1) Matrix spike exceeds acceptance limits due to matrix interference.



Bureau Veritas Job #: C414646 Report Date: 2024/03/07

VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID						CKC158		
Compling Data						2024/02/09		
Sampling Date						10:15		
COC Number						718396-01-01		
		UNITS	MAC	AO	OG	WELL#3	RDL	QC Batch
ANIONS								
Nitrite (N)		mg/L	1	-	-	<0.0050	0.0050	B301068
Calculated Parameters	S							
Total Hardness (CaCO3	3)	mg/L	-	-	-	27.1	0.50	B300337
Nitrate (N)		mg/L	10	-	-	0.203	0.020	B300299
Misc. Inorganics								
Conductivity		uS/cm	-	-	-	93	2.0	B301002
рН		pН	-	-	7.0:10.5	6.44	N/A	B300957
Total Dissolved Solids		mg/L	-	500	-	54	10	B303874
Anions								
Alkalinity (PP as CaCO	3)	mg/L	-	-	-	<1.0	1.0	B301001
Alkalinity (Total as CaCO3)		mg/L	1	-	-	17	1.0	B301001
Bicarbonate (HCO3)		mg/L	1	-	-	21	1.0	B301001
Carbonate (CO3)		mg/L	1	1	-	<1.0	1.0	B301001
Dissolved Fluoride (F)		mg/L	1.5	-	-	<0.050	0.050	B302589
Hydroxide (OH)		mg/L	1	-	-	<1.0	1.0	B301001
Chloride (Cl)		mg/L	ı	250	-	8.6	1.0	B302510
Sulphate (SO4)		mg/L	1	500	-	8.7	1.0	B302510
MISCELLANEOUS								
True Colour		Col. Unit	ı	15	-	<2.0	2.0	B300457
Nutrients								
Nitrate plus Nitrite (N)		mg/L	1	1	-	0.203	0.020	B301067
Physical Properties								
Turbidity		NTU	see remark	see remark	see remark	0.24	0.10	B301008
No Fill N	o Excee	dance						
Grey Ex	xceeds 1	L criteria p	oolicy/level					
Black Exceeds both criteria/levels								
RDL = Reportable Detection Limit								
N/A = Not Applicable								



APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water

Bureau Veritas Job #: C414646 Report Date: 2024/03/07

VILLAGE OF PEMBERTON Client Project #: DW kits without Micro

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID			CKC155	CKC156	CKC157	CKC158		
Sampling Date			2024/02/09 09:00	2024/02/09 09:30	2024/02/09 10:00	2024/02/09 10:15		
COC Number			718396-01-01	718396-01-01	718396-01-01	718396-01-01		
	UNIT	s MAC	RIDGE	FARM RD	WELL#2	WELL#3	RDL	QC Batch
Elements								
Total Mercury (Hg)	ug/	. 1	0.0234	0.0222	0.0235	0.0210	0.0019	B302854
No Fill	No Exceeda	ce						
Grey	Exceeds 1 cr	teria po	olicy/level					
Black	Exceeds bot	criteria	a/levels					
RDL = Reportable Det	tection Limit							



Bureau Veritas Job #: C414646 Report Date: 2024/03/07

VILLAGE OF PEMBERTON Client Project #: DW kits without Micro

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CKC155	CKC156	CKC157	CKC158		
					2024/02/09	2024/02/09	2024/02/09	2024/02/09		
Sampling Date					09:00	09:30	10:00	10:15		
COC Number					718396-01-01	718396-01-01	718396-01-01	718396-01-01		
	UNITS	MAC	AO	OG	RIDGE	FARM RD	WELL#2	WELL#3	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (AI)	ug/L	2900	-	100	5.5	9.1	10.3	8.0	3.0	B302748
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B302748
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B302748
Total Barium (Ba)	ug/L	2000	-	-	22.2	22.4	47.9	18.4	1.0	B302748
Total Boron (B)	ug/L	5000	-	-	86	78	179	57	50	B302748
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	0.032	<0.010	0.033	0.010	B302748
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B302748
Total Cobalt (Co)	ug/L	-	-	-	<0.20	<0.20	0.22	<0.20	0.20	B302748
Total Copper (Cu)	ug/L	2000	1000	-	3.03	4.67	2.11	2.79	0.20	B302748
Total Iron (Fe)	ug/L	-	300	-	26.5	32.0	71.6	18.1	5.0	B302748
Total Lead (Pb)	ug/L	5	-	-	0.57	<0.20	0.25	0.63	0.20	B302748
Total Manganese (Mn)	ug/L	120	20	-	8.1	28.1	93.8	39.0	1.0	B302748
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	<1.0	2.4	<1.0	1.0	B302748
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B302748
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B302748
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	<0.020	<0.020	0.020	B302748
Total Strontium (Sr)	ug/L	7000	-	-	74.8	72.6	177	56.2	1.0	B302748
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B302748
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B302748
Total Zinc (Zn)	ug/L	-	5000	-	6.2	<5.0	14.3	<5.0	5.0	B302748
Total Calcium (Ca)	mg/L	-	-	-	12.7	12.3	25.9	9.92	0.050	B300473
Total Magnesium (Mg)	mg/L	-	-	ı	0.735	0.710	1.62	0.553	0.050	B300473
Total Potassium (K)	mg/L	-	-	-	1.31	1.26	2.64	1.01	0.050	B300473
Total Sodium (Na)	mg/L	-	200	-	23.1	23.2	14.4	4.11	0.050	B300473
Total Sulphur (S)	mg/L	-	-	-	3.6	3.3	6.5	<3.0	3.0	B300473
No Fill N	lo Exceedar	nce								

Grey Black

Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Bureau Veritas Job #: C414646 Report Date: 2024/03/07

VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

GENERAL COMMENTS

Sample CKC155 [RIDGE]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue).

Sample CKC156 [FARM RD]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue).

Sample CKC157 [WELL#2]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue).

Sample CKC158 [WELL#3]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method speci

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, September 2022.

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.

QUALITY ASSURANCE REPORT

VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

			Matrix Spike	Spike	Spiked Blank	Slank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B300457	True Colour	2024/03/01			66	80 - 120	<2.0	Col. Unit	NC	20
B300957	рн	2024/03/01			100	97 - 103			0.030	N/A
B301001	Alkalinity (PP as CaCO3)	2024/03/01					<1.0	T/Bm	NC	20
B301001	Alkalinity (Total as CaCO3)	2024/03/01			103	80 - 120	<1.0	mg/L	0.039	20
B301001	Bicarbonate (HCO3)	2024/03/01					<1.0	mg/L	0.039	20
B301001	Carbonate (CO3)	2024/03/01					<1.0	mg/L	NC	20
B301001	Hydroxide (OH)	2024/03/01					<1.0	mg/L	NC	20
B301002	Conductivity	2024/03/01			86	90 - 110	<2.0	m2/sn	0	10
B301008	Turbidity	2024/03/01			104	80 - 120	<0.10	NTU	7.5	20
B301067	Nitrate plus Nitrite (N)	2024/03/01	40	N/A	103	80 - 120	<0.020	mg/L	0.033	25
B301068	Nitrite (N)	2024/03/01	79 (1)	80 - 120	104	80 - 120	<0.0050	T/Bm	NC	20
B301077	Н	2024/03/02			100	97 - 103			0.038	N/A
B301078	Alkalinity (PP as CaCO3)	2024/03/02					<1.0	mg/L	NC	20
B301078	Alkalinity (Total as CaCO3)	2024/03/02			105	80 - 120	<1.0	mg/L	2.5	20
B301078	Bicarbonate (HCO3)	2024/03/02					<1.0	T/Bm	2.5	20
B301078	Carbonate (CO3)	2024/03/02					<1.0	T/Bm	NC	20
B301078	Hydroxide (OH)	2024/03/02					<1.0	mg/L	NC	20
B301079	Conductivity	2024/03/02			66	90 - 110	<2.0	uS/cm	0	10
B302510	Chloride (Cl)	2024/03/05	NC	80 - 120	105	80 - 120	<1.0	mg/L	0.18	20
B302510	Sulphate (SO4)	2024/03/05	94	80 - 120	97	80 - 120	<1.0	mg/L	0.47	20
B302589	Dissolved Fluoride (F)	2024/03/04	101	80 - 120	104	80 - 120	<0.050	mg/L	NC	20
B302748	Total Aluminum (AI)	2024/03/05	105	80 - 120	96	80 - 120	<3.0	ng/L	1.4	20
B302748	Total Antimony (Sb)	2024/03/05	109	80 - 120	101	80 - 120	<0.50	ng/L	NC	20
B302748	Total Arsenic (As)	2024/03/05	117	80 - 120	107	80 - 120	<0.10	ng/L	1.6	20
B302748	Total Barium (Ba)	2024/03/05	112	80 - 120	102	80 - 120	<1.0	1/8n	0.24	20
B302748	Total Boron (B)	2024/03/05	113	80 - 120	105	80 - 120	<50	1/Bn	NC	20
B302748	Total Cadmium (Cd)	2024/03/05	109	80 - 120	102	80 - 120	<0.010	1/Bn	11	20
B302748	Total Chromium (Cr)	2024/03/05	107	80 - 120	66	80 - 120	<1.0	ng/L	NC	20
B302748	Total Cobalt (Co)	2024/03/05	104	80 - 120	96	80 - 120	<0.20	1/8n	NC	20
B302748	Total Copper (Cu)	2024/03/05	107	80 - 120	95	80 - 120	<0.20	ng/L	1.5	20
B302748	Total Iron (Fe)	2024/03/05	112	80 - 120	103	80 - 120	<5.0	ng/L	1.9	20
B302748	Total Lead (Pb)	2024/03/05	110	80 - 120	101	80 - 120	<0.20	ng/L	2.3	20
B302748	Total Manganese (Mn)	2024/03/05	107	80 - 120	66	80 - 120	<1.0	ng/L	0.0091	20

Page 8 of 10

Bureau Veritas Burnaby: 4606 Canada Way VSG 1KS Telephone(604) 734-7276 Fax(604) 731-2386



QUALITY ASSURANCE REPORT(CONT'D)

Bureau Veritas Job #: C414646 Report Date: 2024/03/07

VILLAGE OF PEMBERTON Client Project #: DW kits without Micro

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	•
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B302748	Total Molybdenum (Mo)	2024/03/05	112	80 - 120	103	80 - 120	<1.0	1/Bn	NC	20
B302748	Total Nickel (Ni)	2024/03/05	106	80 - 120	66	80 - 120	<1.0	7/8n	NC	20
B302748	Total Selenium (Se)	2024/03/05	111	80 - 120	102	80 - 120	<0.10	1/gn	NC	20
B302748	Total Silver (Ag)	2024/03/05	109	80 - 120	102	80 - 120	<0.020	7/Bn	NC	20
B302748	Total Strontium (Sr)	2024/03/05	NC	80 - 120	103	80 - 120	<1.0	1/gn	1.0	20
B302748	Total Uranium (U)	2024/03/05	113	80 - 120	103	80 - 120	<0.10	7/8n	NC	20
B302748	Total Vanadium (V)	2024/03/05	110	80 - 120	100	80 - 120	<5.0	T/Bn	NC	20
B302748	Total Zinc (Zn)	2024/03/05	103	80 - 120	100	80 - 120	<5.0	1/gn	0.72	20
B302854	Total Mercury (Hg)	2024/03/04	6	80 - 120	106	80 - 120	<0.0019	1/8n	3.5	20
B303874	Total Dissolved Solids	2024/03/06	NC	80 - 120	96	80 - 120	<10	mg/L	3.4	20
N/A = Not Applicable	aldesila									

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.

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.

	INVOICE TO:			Report information	uo		Project Information	2	700-50-4-03-NOAIII	AL.
Company Name #99020 \	#99020 VILLAGE OF PEMBERTON	S	Company Name			A contaction	C31790		2000年	Bottle Order #:
	ayable	30	Contact Name 2 Pecce	Cerry		P.O.#				
	Box 100 7400 Prospect St	Ad	Ļ ļ		And the state of t	Project #	DW kits without Micro	cro	-	710596
Pemberto	VON 2LO				10.744.4.77	Project Name			Chain Of Custody Record	Project Nanager
Phone (604) 894-6811	(604) 894-6811 Fax (604) 894-6855 accountsbayable@pemberton.ca		Phone God 353 5845 Fax	row herto	Fac:	Site#		and property of	C47.4830B.04.04	Customer Solutions
ullatory Crite	A Marianta		Special	F		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	SE BE SPECIFIC)		Turnaround Time (TAT) Required:	equired:
		0.0	1						Please provide advance notice for rush projects	rush projects
CSR		Fleas	thease that beganse	T.					Regular (Standerd) TAT:	
COME		And	AN J MAC	-		_			(will be applied if Rush TAT is not specified):	
BC Water Quality		2		(N)	/M 8				Standard TAT = 5-7 Working days for most tests	j
		_		人) &	жэд				Pieese note: Standard TAT for certain lests such as BOO and DiowinsFirrans are > 5 days - contact your Project Manager for details.	OD and Dioxins/Furans are >
Cole				pea.	Pac			-	Job Specific Rush TAT (if applies to entire submission)	ssion)
				əliz	veter Ty				1 DAY 2 Day 3 Day Dake Required;	Injud;
	TAG TO THE RIGHT COST OF THE C			Ple14	M Bi		-		Rush Confirmation Number:	
SAMPLES MUST BE KE	SAMPLES MUST BE REFT COOL (< 10°C PROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU V	IPLING UNTIL DELIVE	ERY TO BUREAU VERITAS	slet	nkin stob					(cat lab for #)
Sample Barcode Label	Sample (Location) identification	on Date Sampled	upled Time Sampled	Matrix	Mic				F or Comments	
	21096	2402/2g	129 9:00 pm		7					
	Form Rd	34/02/2M	In 9:30AM		7					
	Well #2	CAR	MACO 101 ration	_	7					
	Well #3	che	24/24/29 10715 AM		7					
THE TAXABLE STATES OF THE PROPERTY OF THE PROP										
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* RELINQUISHED PY: (SignaturalPrint)	lork a	Date: (YYMMIDD)	Time 10:70m	ALF K	Mey Worth	Date: (VYNINADO)	7 Time # Jars used and not submitted	mitted Time Sansilive	Temperatufé (*C) on Recept	Custody Seel Intact on Cooler?
				1				-	0	1



Your C.O.C. #: C#720627-01-01

Attention: Reece Clark

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

Report Date: 2024/04/05

Report #: R3484442 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C422339 Received: 2024/04/01, 09:02

Sample Matrix: Water # Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	4	N/A	2024/04/02	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/04/01	BBY6SOP-00011 /	SM24-4500-Cl/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A	2024/04/02	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	4	N/A	2024/04/02	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/04/02	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/04/03	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/04/03	2024/04/03	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/04/03	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/04/02	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A	2024/04/02	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/04/02	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/04/02	BBY WI-00033	Auto Calc
pH @25°C (2)	4	N/A	2024/04/02	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/04/03	2024/04/04	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/04/01	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Your C.O.C. #: C#720627-01-01

Attention: Reece Clark

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

Report Date: 2024/04/05

Report #: R3484442 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C422339 Received: 2024/04/01, 09:02

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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key

Aldean Alicando Customer Solutions Representative 05 Apr 2024 15:43:17

Please direct all questions regarding this Certificate of Analysis to: Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bureauveritas.com

Phone# (604) 734 7276

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID					CLN059	CLN060	CLN061		
Sampling Date					2024/03/28	2024/03/28	2024/03/28		
Sampling Date					08:30	08:45	09:00		
COC Number					C#720627-01-01	C#720627-01-01	C#720627-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	RIDGE	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	B328650
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	72.8	26.2	27.8	0.50	B327375
Nitrate (N)	mg/L	10	-	-	0.282	0.213	0.219	0.020	B327379
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	270	89	170	2.0	B328738
рН	pН	-	-	7.0:10.5	6.84	6.54	7.66	N/A	B328725
Total Dissolved Solids	mg/L	-	500	-	120	44	82	10	B329629
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B328737
Alkalinity (Total as CaCO3)	mg/L	-	-	-	36	16	57	1.0	B328737
Bicarbonate (HCO3)	mg/L	-	-	-	44	20	69	1.0	B328737
Carbonate (CO3)	mg/L	ı	-	-	<1.0	<1.0	<1.0	1.0	B328737
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B328801
Hydroxide (OH)	mg/L	1	-	-	<1.0	<1.0	<1.0	1.0	B328737
Chloride (Cl)	mg/L	ı	250	-	42	6.8	8.3	1.0	B327725
Sulphate (SO4)	mg/L	ı	500	-	19	8.2	8.3	1.0	B327725
MISCELLANEOUS									
True Colour	Col. Unit	ı	15	-	<2.0	<2.0	<2.0	2.0	B328639
Nutrients									
Nitrate plus Nitrite (N)	mg/L	ı	-	-	0.282	0.213	0.219	0.020	B328646
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.44	<0.10	0.18	0.10	B327544
No Fill N	lo Exceedar	nce							
Grey	xceeds 1 cr	iteria policy/	level						
-	xceeds botl	h criteria/lev	els						
RDL = Reportable Detection		,							
N/A = Not Applicable									

N/A = Not Applicable

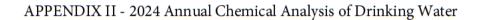


VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID						CLN062		
Sampling Date						2024/03/28 09:15		
COC Number						C#720627-01-01		
		UNITS	MAC	AO	OG	FARM RD	RDL	QC Batch
ANIONS								
Nitrite (N)		mg/L	1	-	-	<0.0050	0.0050	B328650
Calculated Parame	ters							
Total Hardness (Ca	CO3)	mg/L	-	-	-	26.7	0.50	B327375
Nitrate (N)		mg/L	10	-	-	0.219	0.020	B327379
Misc. Inorganics								
Conductivity		uS/cm	-	-	-	160	2.0	B328738
pН		pН	1	,	7.0:10.5	7.65	N/A	B328725
Total Dissolved Soli	ds	mg/L	,	500	-	90	10	B329629
Anions								
Alkalinity (PP as Cat		mg/L	-	-	-	<1.0	1.0	B328737
Alkalinity (Total as	CaCO3)	mg/L	-	-	-	54	1.0	B328737
Bicarbonate (HCO3)	mg/L	-	-	-	66	1.0	B328737
Carbonate (CO3)		mg/L	-	-	-	<1.0	1.0	B328737
Dissolved Fluoride (F)		mg/L	1.5	-	-	<0.050	0.050	B328801
Hydroxide (OH)		mg/L	-	-	-	<1.0	1.0	B328737
Chloride (Cl)		mg/L	-	250	-	8.2	1.0	B327725
Sulphate (SO4)		mg/L	-	500	-	8.3	1.0	B327725
MISCELLANEOUS								
True Colour		Col. Unit	-	15	-	2.0	2.0	B328639
Nutrients								
Nitrate plus Nitrite	• •	mg/L	-	-	-	0.219	0.020	B328646
Physical Properties	;							
Turbidity		NTU	see remark	see remark	see remark	0.31	0.10	B327544
No Fill	No Exce	edance						
Grey	Exceeds	1 criteria	policy/level					
Black	Exceeds	both crite	ria/levels					
RDL = Reportable D	etection L	imit						
N/A = Not Applicab	le							

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VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID				CLN059	CLN060	CLN061	CLN062		
Sampling Date				2024/03/28 08:30	2024/03/28 08:45	2024/03/28 09:00	2024/03/28 09:15		
COC Number				C#720627-01-01	C#720627-01-01	C#720627-01-01	C#720627-01-01		
		UNITS	MAC	WELL #2	WELL #3	RIDGE	FARM RD	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	B329663
No Fill	No Ex	ceedar	ice						
Grey	Excee	ds 1 cri	iteria p	olicy/level					
Black	Excee	ds both	r criter	ia/levels					
RDL = Reportable Dete	ction Li	mit							



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID					CLN059	CLN060	CLN061	CLN062		
Samuling Data					2024/03/28	2024/03/28	2024/03/28	2024/03/28		
Sampling Date					08:30	08:45	09:00	09:15		
COC Number					C#720627-01-01	C#720627-01-01	C#720627-01-01	C#720627-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	RIDGE	FARM RD	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2900	-	100	4.0	7.9	<3.0	47.3	3.0	B328658
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B328658
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B328658
Total Barium (Ba)	ug/L	2000	-	-	45.6	17.0	17.2	20.1	1.0	B328658
Total Boron (B)	ug/L	5000	-	1	152	<50	<50	<50	50	B328658
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	0.024	<0.010	0.201	0.010	B328658
Total Chromium (Cr)	ug/L	50	-	١	<1.0	<1.0	<1.0	<1.0	1.0	B328658
Total Cobalt (Co)	ug/L	-	1	1	0.21	<0.20	<0.20	<0.20	0.20	B328658
Total Copper (Cu)	ug/L	2000	1000	•	1.91	3.04	2.46	10.1	0.20	B328658
Total Iron (Fe)	ug/L	-	300	-	83.3	14.1	13.9	45.5	5.0	B328658
Total Lead (Pb)	ug/L	5	1	•	<0.20	0.48	<0.20	<0.20	0.20	B328658
Total Manganese (Mn)	ug/L	120	20	-	84.5	34.3	3.5	41.5	1.0	B328658
Total Molybdenum (Mo)	ug/L	-	-	1	2.4	<1.0	<1.0	<1.0	1.0	B328658
Total Nickel (Ni)	ug/L	-	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B328658
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B328658
Total Silver (Ag)	ug/L	-	-	١	<0.020	<0.020	<0.020	<0.020	0.020	B328658
Total Strontium (Sr)	ug/L	7000	-	-	157	47.7	51.8	52.9	1.0	B328658
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B328658
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B328658
Total Zinc (Zn)	ug/L	-	5000	-	26.5	<5.0	8.3	<5.0	5.0	B328658
Total Calcium (Ca)	mg/L	-	-	-	26.5	9.58	10.1	9.74	0.050	B327377
Total Magnesium (Mg)	mg/L	-	-	-	1.60	0.562	0.601	0.577	0.050	B327377
Total Potassium (K)	mg/L	-	-	-	2.58	0.980	0.995	0.990	0.050	B327377
Total Sodium (Na)	mg/L	-	200	-	15.4	4.07	22.3	21.1	0.050	B327377
Total Sulphur (S)	mg/L	-	-	-	7.0	3.2	3.2	3.1	3.0	B327377
No Fill	o Evened									

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Bureau Veritas Job #: C422339 Report Date: 2024/04/05

VILLAGE OF PEMBERTON

GENERAL COMMENTS

Version #2: Report reissued to amend client sampling time on samples Well #3, Ridge and Farm Rd as per the original Chain of Custody.

Sample CLN059 [WELL #2]: Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer.

Sample CLN060 [WELL #3]: Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrite (N). Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer.

Sample CLN061 [RIDGE]: Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrite (N). Regular Level Water. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer.

Sample CLN062 [FARM RD] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, September 2022.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B327544	Turbidity	2024/04/01			103	80 - 120	<0.10	NTU	14	20
B327725	Chloride (Cl)	2024/04/01	114	80 - 120	103	80 - 120	<1.0	mg/L	96.0	20
B327725	Sulphate (SO4)	2024/04/01	100	80 - 120	97	80 - 120	<1.0	mg/L	96.0	20
B328639	True Colour	2024/04/02			100	80 - 120	<2.0	Col. Unit	NC	20
B328646	Nitrate plus Nitrite (N)	2024/04/02	115	80 - 120	106	80 - 120	<0.020	mg/L	2.1	25
B328650	Nitrite (N)	2024/04/02	111	80 - 120	106	80 - 120	<0.0050	mg/L	NC	20
B328658	Total Aluminum (AI)	2024/04/02	86	80 - 120	104	80 - 120	<3.0	ng/L	NC	20
B328658	Total Antimony (Sb)	2024/04/02	66	80 - 120	104	80 - 120	<0.50	ng/L	NC	20
B328658	Total Arsenic (As)	2024/04/02	104	80 - 120	108	80 - 120	<0.10	1/Bn	NC	20
B328658	Total Barium (Ba)	2024/04/02	66	80 - 120	104	80 - 120	<1.0	1/Bn	NC	20
B328658	Total Boron (B)	2024/04/02	100	80 - 120	106	80 - 120	<50	1/Bn	NC	20
B328658	Total Cadmium (Cd)	2024/04/02	100	80 - 120	104	80 - 120	<0.010	ng/L	NC	20
B328658	Total Chromium (Cr)	2024/04/02	97	80 - 120	102	80 - 120	<1.0	ng/L	NC	20
B328658	Total Cobalt (Co)	2024/04/02	86	80 - 120	103	80 - 120	<0.20	7/8n	NC	20
B328658	Total Copper (Cu)	2024/04/02	91	80 - 120	98	80 - 120	<0.20	ng/L	NC	20
B328658	Total Iron (Fe)	2024/04/02	86	80 - 120	102	80 - 120	<5.0	ng/L	NC	20
B328658	Total Lead (Pb)	2024/04/02	95	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
B328658	Total Manganese (Mn)	2024/04/02	91	80 - 120	97	80 - 120	<1.0	ng/L	NC	20
B328658	Total Molybdenum (Mo)	2024/04/02	66	80 - 120	108	80 - 120	<1.0	ug/L	NC	20
B328658	Total Nickel (Ni)	2024/04/02	95	80 - 120	101	80 - 120	<1.0	ng/L	NC	20
B328658	Total Selenium (Se)	2024/04/02	66	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
B328658	Total Silver (Ag)	2024/04/02	96	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
B328658	Total Strontium (Sr)	2024/04/02	91	80 - 120	97	80 - 120	<1.0	ng/L	NC	20
B328658	Total Uranium (U)	2024/04/02	93	80 - 120	100	80 - 120	<0.10	ng/L	NC	20
B328658	Total Vanadium (V)	2024/04/02	93	80 - 120	99	80 - 120	<5.0	ng/L	NC	20
B328658	Total Zinc (Zn)	2024/04/02	101	80 - 120	103	80 - 120	<5.0	ng/L	NC	20
B328725	рН	2024/04/02			100	97 - 103			0.13	N/A
B328737	Alkalinity (PP as CaCO3)	2024/04/02					<1.0	mg/L	NC	20
B328737	Alkalinity (Total as CaCO3)	2024/04/02			100	80 - 120	<1.0	mg/L	3.3	20
B328737	Bicarbonate (HCO3)	2024/04/02					<1.0	mg/L	3.3	20
B328737	Carbonate (CO3)	2024/04/02					<1.0	mg/L	NC	20
B328737	Hydroxide (OH)	2024/04/02					<1.0	mg/L	NC	20
B328738	Conductivity	2024/04/02			102	90 - 110	<2.0	uS/cm	0.43	10
B328801	Dissolved Fluoride (F)	2024/04/02	102	80 - 120	96	80 - 120	<0.050	T/8m	NC	20
				210						

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery QC Limits	QC Limits	Value	UNITS	Value (%)	QC Limits
B329629	B329629 Total Dissolved Solids	2024/04/04	100	80 - 120	100	80 - 120	<10	∏/gш	2.4	20
B329663	Total Mercury (Hg)	2024/04/03	66	80 - 120	100	80 - 120	<0.0019	7/8n	NC (1)	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.

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) Mercury RDL raised due to background interference

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Your Project #: ANNUAL WATER SAMPLE

Your C.O.C. #: C#722604-02-01

Attention: Reece Clark

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

Report Date: 2024/04/30

Report #: R3494160 Version: 1 - Final

CERTIFICATE OF ANALYSIS

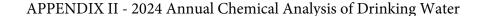
BUREAU VERITAS JOB #: C429048 Received: 2024/04/26, 08:44

Sample Matrix: Water # Samples Received: 5

# Samples Received. 5		_	_		
Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
	Qualitity 2	N/A		BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH		-			SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	2	N/A		BBY6SOP-00026	
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A		BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	5	N/A	2024/04/26	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-CI/SO4-E m
Color (True) by Automated Analyzer	5	N/A	2024/04/26	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	2	N/A	2024/04/26	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	2	N/A	2024/04/27	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	1	N/A	2024/04/29	BBY6SOP-00026	SM 24 2510 B m
Fluoride	5	N/A	2024/04/29	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	5	N/A	2024/04/29	BBY WI-00033	Auto Calc
Mercury (Total) by CV	5	2024/04/26	2024/04/26	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2024/04/29	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	5	N/A	2024/04/26	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Nitrate + Nitrite (N)	5	N/A	2024/04/26	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	5	N/A		BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	5	N/A	2024/04/26	BBY WI-00033	Auto Calc
pH @25°C (2)	2	N/A	2024/04/26	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (2)	2	N/A	2024/04/27	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (2)	1	N/A	2024/04/29	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/04/26	2024/04/27	BBY6SOP-00033	SM 24 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2024/04/29	2024/04/30	BBY6SOP-00033	SM 24 2540 C m
Total Trihalomethanes Calculation	3	N/A	2024/04/30	BBY WI-00033	Auto Calc
Turbidity	5	N/A	2024/04/26	BBY6SOP-00027	SM 24 2130 B m
VOCs, VH, F1, LH in Water by HS GC/MS	5	N/A	2024/04/30	BBY8SOP-00009 /	BCMOE BCLM Jul2017 m
				BBY8SOP-00011 / BBY8SOP-00012	
Volatile HC-BTEX (3)	3	N/A	2024/04/30	BBY WI-00033	Auto Calc

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau





Your Project #: ANNUAL WATER SAMPLE Your C.O.C. #: C#722604-02-01

Attention: Reece Clark

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

Report Date: 2024/04/30

Report #: R3494160 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C429048 Received: 2024/04/26, 08:44

Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, 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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.
- (3) VPH = VH (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)

Encryption Key



30 Apr 2024 16:15:32

Please direct all questions regarding this Certificate of Analysis to: Aldean Alicando, Customer Solutions Representative Email: Aldean.ALICANDO@bureauveritas.com

Phone# (604)734-7272 Ext:7062605

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID					CMP806		CMP807		
Sampling Date					2024/04/25		2024/04/25		
Sampling Date					08:30		08:40		
COC Number					C#722604-02-01		C#722604-02-01		
	UNITS	MAC	AO	OG	WELL #2	QC Batch	WELL #3	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	B351883	<0.0050	0.0050	B351883
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	65.6	B351631	27.1	0.50	B351631
Nitrate (N)	mg/L	10	-	-	0.395	B351538	0.191	0.020	B351538
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	230	B352264	92	2.0	B352189
рН	pН	-	-	7.0:10.5	6.27	B352261	6.26	N/A	B352188
Total Dissolved Solids	mg/L	-	500	-	130	B351752	46	10	B351752
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	B352266	<1.0	1.0	B352181
Alkalinity (Total as CaCO3)	mg/L	-	-	-	39	B352266	16	1.0	B352181
Bicarbonate (HCO3)	mg/L	-	-	-	47	B352266	20	1.0	B352181
Carbonate (CO3)	mg/L	-	-	-	<1.0	B352266	<1.0	1.0	B352181
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	B353644	<0.050	0.050	B353644
Hydroxide (OH)	mg/L	-	1	-	<1.0	B352266	<1.0	1.0	B352181
Chloride (Cl)	mg/L	-	250	-	37	B352108	7.8	1.0	B352108
Sulphate (SO4)	mg/L	-	500	-	19	B352108	8.9	1.0	B352108
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	2.2	B351917	<2.0	2.0	B351917
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.395	B351869	0.191	0.020	B351869
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.23	B352184	<0.10	0.10	B352184
No Fill	No Exceedan	ce							
Grey	Exceeds 1 crit	eria policy/le	evel						
Black	Exceeds both	criteria/leve	ls						
RDL = Reportable Detectio	n Limit								
N/A = Not Applicable									



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID					CMP808		CMP809		
					2024/04/25		2024/04/25		
Sampling Date					09:00		09:30		
COC Number					C#722604-02-01		C#722604-02-01		
	UNITS	MAC	AO	OG	FARM RD	QC Batch	RIDGE P/S	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	B351883	<0.0050	0.0050	B351883
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	27.6	B351631	27.8	0.50	B351631
Nitrate (N)	mg/L	10	-	-	0.199	B351538	0.201	0.020	B351538
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	170	B352189	170	2.0	B352278
рН	pН	-	-	7.0:10.5	7.01	B352188	7.32	N/A	B352271
Total Dissolved Solids	mg/L	-	500	-	86	B351752	84	10	B351752
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	B352181	<1.0	1.0	B352279
Alkalinity (Total as CaCO3)	mg/L	-	-	-	58	B352181	58	1.0	B352279
Bicarbonate (HCO3)	mg/L	-	-	-	71	B352181	71	1.0	B352279
Carbonate (CO3)	mg/L	-	-	-	<1.0	B352181	<1.0	1.0	B352279
Dissolved Fluoride (F)	mg/L	1.5	1	-	<0.050	B353644	<0.050	0.050	B353644
Hydroxide (OH)	mg/L	-	1	1	<1.0	B352181	<1.0	1.0	B352279
Chloride (CI)	mg/L	-	250	-	8.8	B352108	8.7	1.0	B352108
Sulphate (SO4)	mg/L	-	500	-	8.9	B352108	8.9	1.0	B352108
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	<2.0	B351917	<2.0	2.0	B351917
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	•	-	0.199	B351869	0.201	0.020	B351869
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.13	B352184	0.14	0.10	B352184
No Fill N	o Exceedanc	ce							
Grey	xceeds 1 crit	eria policy/le	evel						
Black	xceeds both	criteria/level	ls						
RDL = Reportable Detection	Limit								
N/A = Not Applicable									



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID					CMP810		
					2024/04/25		
Sampling Date					10:00		
COC Number					C#722604-02-01		
	UNITS	MAC	AO	OG	INDUSTRIAL PARK	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	B351883
Calculated Parameters	•						
Total Hardness (CaCO3)	mg/L	-	-	-	29.3	0.50	B351631
Nitrate (N)	mg/L	10	-	-	0.090	0.020	B351538
Misc. Inorganics	•						
Conductivity	uS/cm	-	-	-	74	2.0	B352278
рН	pН	-	-	7.0:10.5	6.67	N/A	B352271
Total Dissolved Solids	mg/L	-	500	-	40	10	B353829
Anions							
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	B352279
Alkalinity (Total as CaCO	3) mg/L	-	-	-	24	1.0	B352279
Bicarbonate (HCO3)	mg/L	1	-	-	29	1.0	B352279
Carbonate (CO3)	mg/L	1	1	-	<1.0	1.0	B352279
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	B353644
Hydroxide (OH)	mg/L	1	1	-	<1.0	1.0	B352279
Chloride (Cl)	mg/L	-	250	-	<1.0	1.0	B352108
Sulphate (SO4)	mg/L	-	500	-	8.2	1.0	B352108
MISCELLANEOUS							
True Colour	Col. Unit	-	15	-	<2.0	2.0	B351917
Nutrients							
Nitrate plus Nitrite (N)	mg/L	1	-	-	0.090	0.020	B351869
Physical Properties							
Turbidity	NTU	see remark	see remark	see remark	<0.10	0.10	B352184
No Fill No	Exceedance						
Grey Exc	ceeds 1 criteria	policy/level					
	eeds both crite	ria/levels					
RDL = Reportable Detect	tion Limit						
N/A = Not Applicable							



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID				CMP806	CMP807	CMP808	CMP809		
Sampling Date				2024/04/25 08:30	2024/04/25 08:40	2024/04/25 09:00	2024/04/25 09:30		
COC Number				C#722604-02-01	C#722604-02-01	C#722604-02-01	C#722604-02-01		
		UNITS	MAC	WELL #2	WELL #3	FARM RD	RIDGE P/S	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	B352160
No Fill	No E	xceedar	ice						
Grey	Exce	eds 1 cr	iteria p	oolicy/level					
Black	Exce	eds botl	r criter	ria/levels					
RDL = Reportable Dete	ction L	imit							

Bureau Verita	is ID			CMP810		
Sampling Dat	e			2024/04/25 10:00		
COC Number				C#722604-02-01		
		UNITS	MAC	INDUSTRIAL PARK	RDL	QC Batch
Elements						
Total Mercury	/ (Hg)	ug/L	1	<0.0019	0.0019	B352160
No Fill	No Exceedance	e				
Grey	Exceeds 1 crit	eria pol	icy/lev	el		
Black	Exceeds both	criteria	/levels			
RDL = Reporta	able Detection L	imit				



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID					CMP806	CMP807	CMP808	CMP809		
Sampling Date					2024/04/25	2024/04/25	2024/04/25	2024/04/25		
Sumpling Dute					08:30	08:40	09:00	09:30		
COC Number					C#722604-02-01	C#722604-02-01	C#722604-02-01	C#722604-02-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	FARM RD	RIDGE P/S	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2900	-	100	3.7	7.6	6.5	6.8	3.0	B351791
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B351791
Total Arsenic (As)	ug/L	10	-	1	<0.10	<0.10	<0.10	<0.10	0.10	B351791
Total Barium (Ba)	ug/L	2000	-	١	41.2	17.4	17.5	17.8	1.0	B351791
Total Boron (B)	ug/L	5000	-	1	124	<50	<50	<50	50	B351791
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	0.027	0.024	0.023	0.010	B351791
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B351791
Total Cobalt (Co)	ug/L	-	-	-	<0.20	<0.20	<0.20	<0.20	0.20	B351791
Total Copper (Cu)	ug/L	2000	1000	•	1.82	2.38	6.52	4.65	0.20	B351791
Total Iron (Fe)	ug/L	-	300	-	68.7	16.8	15.4	20.0	5.0	B351791
Total Lead (Pb)	ug/L	5	-	•	<0.20	0.37	<0.20	0.23	0.20	B351791
Total Manganese (Mn)	ug/L	120	20	-	56.8	56.2	6.6	7.2	1.0	B351791
Total Molybdenum (Mo)	ug/L	-	-	-	1.9	<1.0	<1.0	<1.0	1.0	B351791
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B351791
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B351791
Total Silver (Ag)	ug/L	-	-	١	<0.020	<0.020	<0.020	<0.020	0.020	B351791
Total Strontium (Sr)	ug/L	7000	-	-	142	50.3	51.2	50.1	1.0	B351791
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B351791
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B351791
Total Zinc (Zn)	ug/L	-	5000	١	26.2	<5.0	<5.0	8.1	5.0	B351791
Total Calcium (Ca)	mg/L	-	-	-	23.9	9.87	10.1	10.2	0.050	B351636
Total Magnesium (Mg)	mg/L	-	-	-	1.45	0.591	0.590	0.595	0.050	B351636
Total Potassium (K)	mg/L	-	-	-	2.38	0.997	1.01	0.994	0.050	B351636
Total Sodium (Na)	mg/L	-	200	-	14.5	4.19	22.4	22.1	0.050	B351636
Total Sulphur (S)	mg/L	-	-	-	6.6	3.2	3.4	3.3	3.0	B351636
No Ell N	o Evened									

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID					CMP810		
Samuling Date					2024/04/25		
Sampling Date					10:00		
COC Number					C#722604-02-01		
	UNITS	MAC	AO	OG	INDUSTRIAL PARK	RDL	QC Batch
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	2900	-	100	<3.0	3.0	B351791
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50	B351791
Total Arsenic (As)	ug/L	10	-	-	0.12	0.10	B351791
Total Barium (Ba)	ug/L	2000	-	-	6.1	1.0	B351791
Total Boron (B)	ug/L	5000	-	-	<50	50	B351791
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	0.010	B351791
Total Chromium (Cr)	ug/L	50	1	-	<1.0	1.0	B351791
Total Cobalt (Co)	ug/L	-	,	,	<0.20	0.20	B351791
Total Copper (Cu)	ug/L	2000	1000	1	4.40	0.20	B351791
Total Iron (Fe)	ug/L	1	300		6.5	5.0	B351791
Total Lead (Pb)	ug/L	5	ı	-	0.33	0.20	B351791
Total Manganese (Mn)	ug/L	120	20	-	<1.0	1.0	B351791
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0	B351791
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0	B351791
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10	B351791
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	B351791
Total Strontium (Sr)	ug/L	7000	-	-	28.7	1.0	B351791
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10	B351791
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0	B351791
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0	B351791
Total Calcium (Ca)	mg/L	-	-	-	10.3	0.050	B351636
Total Magnesium (Mg)	mg/L	-	-	-	0.879	0.050	B351636
Total Potassium (K)	mg/L	-	-	-	0.488	0.050	B351636
Total Sodium (Na)	mg/L	-	200	-	1.49	0.050	B351636
Total Sulphur (S)	mg/L	1	-	-	3.1	3.0	B351636
No Fill No Exceedar	nce						
Grey Exceeds 1 cr	iteria p	olicy/le	evel				
Black Exceeds bot	h criteri	a/leve	ls				
RDL = Reportable Detection L	imit			_		_	

Page 8 of 17



RDL = Reportable Detection Limit

VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

TRIHALOMETHANES (THM) IN WATER

Bureau Veritas ID				CMP808	CMP809			CMP810		
Sampling Date				2024/04/25 09:00	2024/04/25 09:30			2024/04/25 10:00		
COC Number				C#722604-02-01	C#722604-02-01			C#722604-02-01		
		UNITS	MAC	FARM RD	RIDGE P/S	RDL	QC Batch	INDUSTRIAL PARK	RDL	QC Batch
Volatiles										
Total Trihalomethanes		ug/L	100	3.3	2.8	1.0	B351639	2.4	1.0	B351639
Bromodichloromethane	5	ug/L	-	1.4	1.2	1.0	B353643			
Bromoform		ug/L	-	<1.0	<1.0	1.0	B353643			
Dibromochloromethane	e	ug/L	-	2.0	1.7	1.0	B353643			
Chloroform		ug/L	-	<1.0	<1.0	1.0	B353643			
Surrogate Recovery (%)									
1,4-Difluorobenzene (su	ur.)	%	-	99	102		B353643			
4-Bromofluorobenzene	(sur.)	%		82	86		B353643			
D4-1,2-Dichloroethane	(sur.)	%	•	76	85		B353643			
No Fill	No Exc	eedanc	e							
Grey	Exceed	ds 1 crite	eria po	licy/level						
Black	Exceed	ds both	criteria	/levels						



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

CSR VOC + VPH IN WATER (WATER)

Bureau Veritas ID				CMP806	CMP807	CMP810		
Samuellina Bata				2024/04/25	2024/04/25	2024/04/25		
Sampling Date				08:30	08:40	10:00		
COC Number				C#722604-02-01	C#722604-02-01	C#722604-02-01		
	UNITS	MAC	ΑO	WELL #2	WELL #3	INDUSTRIAL PARK	RDL	QC Batch
Calculated Parameters								
VPH (VH6 to 10 - BTEX)	ug/L	-	-	<300	<300	<300	300	B351641
Volatiles					•	•		
VH C6-C10	ug/L	-	-	<300	<300	<300	300	B353643
1,1,1,2-tetrachloroethane	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,1,1-trichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,1,2,2-tetrachloroethane	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
1,1,2-trichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,1-dichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,1-dichloroethene	ug/L	14	-	<0.50	<0.50	<0.50	0.50	B353643
1,2,3-trichlorobenzene	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
1,2,4-trichlorobenzene	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
1,2-dibromoethane	ug/L	-	-	<0.20	<0.20	<0.20	0.20	B353643
1,2-dichlorobenzene	ug/L	200	3	<0.50	<0.50	<0.50	0.50	B353643
1,2-dichloroethane	ug/L	5	-	<0.50	<0.50	<0.50	0.50	B353643
1,2-dichloropropane	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,3,5-trimethylbenzene	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
1,3-Butadiene	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,3-dichlorobenzene	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
1,3-dichloropropane	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
1,4-dichlorobenzene	ug/L	5	1	<0.50	<0.50	<0.50	0.50	B353643
Benzene	ug/L	5	-	<0.40	<0.40	<0.40	0.40	B353643
Bromobenzene	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
Bromodichloromethane	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
Bromoform	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
Bromomethane	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
Carbon tetrachloride	ug/L	2	-	<0.50	<0.50	<0.50	0.50	B353643
Chlorobenzene	ug/L	80	30	<0.50	<0.50	<0.50	0.50	B353643
Dibromochloromethane	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
Chloroethane	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
Chloroform	ug/L	-	-	<1.0	<1.0	2.4	1.0	B353643
Chloromethane	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
cis-1,2-dichloroethene	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
No Fill No Exceedar	ice							
Grey Exceeds 1 cr	teria pol	icy/lev	el					
Black Exceeds both		,.						
RDL = Reportable Detection Limit								
p								

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VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

CSR VOC + VPH IN WATER (WATER)

Bureau Veritas ID				CMP806	CMP807	CMP810		
Sampling Date				2024/04/25	2024/04/25	2024/04/25		
Sampling Date				08:30	08:40	10:00		
COC Number				C#722604-02-01	C#722604-02-01	C#722604-02-01		
	UNITS	MAC	AO	WELL #2	WELL #3	INDUSTRIAL PARK	RDL	QC Batch
cis-1,3-dichloropropene	ug/L	-	-	<1.0 (1)	<1.0	<1.0	1.0	B353643
Dichlorodifluoromethane	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
Dichloromethane	ug/L	50	-	<2.0	<2.0	<2.0	2.0	B353643
Ethylbenzene	ug/L	140	1.6	<0.40	<0.40	<0.40	0.40	B353643
Hexachlorobutadiene	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
Isopropylbenzene	ug/L	-	-	<2.0	<2.0	<2.0	2.0	B353643
Methyl-tert-butylether (MTBE)	ug/L	-	15	<4.0	<4.0	<4.0	4.0	B353643
Styrene	ug/L	-	-	<0.50	<0.50	<0.50	0.50	B353643
Tetrachloroethene	ug/L	10	1	<0.50	<0.50	<0.50	0.50	B353643
Toluene	ug/L	60	24	<0.40	<0.40	<0.40	0.40	B353643
trans-1,2-dichloroethene	ug/L	-	-	<1.0	<1.0	<1.0	1.0	B353643
trans-1,3-dichloropropene	ug/L	-	-	<1.0 (1)	<1.0	<1.0	1.0	B353643
Trichloroethene	ug/L	5	-	<0.50	<0.50	<0.50	0.50	B353643
Trichlorofluoromethane	ug/L	-	-	<4.0	<4.0	<4.0	4.0	B353643
Vinyl chloride	ug/L	2	-	<0.50	<0.50	<0.50	0.50	B353643
m & p-Xylene	ug/L	-	-	<0.40	<0.40	<0.40	0.40	B353643
o-Xylene	ug/L	-	-	<0.40	<0.40	<0.40	0.40	B353643
Xylenes (Total)	ug/L	90	20	<0.40	<0.40	<0.40	0.40	B353643
Surrogate Recovery (%)	•							
1,4-Difluorobenzene (sur.)	%	-	-	102	102	103		B353643
4-Bromofluorobenzene (sur.)	%	-	-	86	87	85		B353643
D4-1,2-Dichloroethane (sur.)	%	-	-	88	92	93		B353643

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit

(1) Matrix Spike recovery below acceptance criteria. Sensitivity is not an issue, As results are non-detect, there is no impact on data quality.



VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

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 2022.

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.

QUALITY ASSURANCE REPORT

Bureau Veritas Job #: C429048
Report Date: 2024/04/30

VILLAGE OF PEMBERTON Client Project #: ANNUAL WATER SAMPLE

			Matrix Spike	Spike	Spiked Blank	3lank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B353643	1,4-Difluorobenzene (sur.)	2024/04/29	97	50 - 140	97	50 - 140	101	%		
B353643	4-Bromofluorobenzene (sur.)	2024/04/29	101	50 - 140	106	50 - 140	85	%		
B353643	D4-1,2-Dichloroethane (sur.)	2024/04/29	64	50 - 140	92	50 - 140	88	%		
B351752	Total Dissolved Solids	2024/04/27	100	80 - 120	100	80 - 120	<10	mg/L	0	20
B351791	Total Aluminum (AI)	2024/04/26	96	80 - 120	101	80 - 120	<3.0	ng/L	5.5	20
B351791	Total Antimony (Sb)	2024/04/26	86	80 - 120	102	80 - 120	<0.50	ng/L	NC	20
B351791	Total Arsenic (As)	2024/04/26	100	80 - 120	101	80 - 120	<0.10	ng/L	NC	20
B351791	Total Barium (Ba)	2024/04/26	95	80 - 120	101	80 - 120	<1.0	ng/L	1.3	20
B351791	Total Boron (B)	2024/04/26	113	80 - 120	107	80 - 120	<50	ng/L	NC	20
B351791	Total Cadmium (Cd)	2024/04/26	26	80 - 120	102	80 - 120	<0.010	ng/L	13	20
B351791	Total Chromium (Cr)	2024/04/26	90	80 - 120	94	80 - 120	<1.0	ng/L	NC	20
B351791	Total Cobalt (Co)	2024/04/26	06	80 - 120	94	80 - 120	<0.20	1/Bn	NC	20
B351791	Total Copper (Cu)	2024/04/26	68	80 - 120	95	80 - 120	<0.20	ng/L	0.84	20
B351791	Total Iron (Fe)	2024/04/26	86	80 - 120	100	80 - 120	<5.0	ng/L	NC	20
B351791	Total Lead (Pb)	2024/04/26	96	80 - 120	101	80 - 120	<0.20	ng/L	2.1	20
B351791	Total Manganese (Mn)	2024/04/26	96	80 - 120	100	80 - 120	<1.0	ng/L	1.7	20
B351791	Total Molybdenum (Mo)	2024/04/26	66	80 - 120	102	80 - 120	<1.0	ng/L	NC	20
B351791	Total Nickel (Ni)	2024/04/26	94	80 - 120	66	80 - 120	<1.0	ng/L	NC	20
B351791	Total Selenium (Se)	2024/04/26	94	80 - 120	100	80 - 120	<0.10	ng/L	NC	20
B351791	Total Silver (Ag)	2024/04/26	96	80 - 120	101	80 - 120	<0.020	ng/L	NC	20
B351791	Total Strontium (Sr)	2024/04/26	NC	80 - 120	95	80 - 120	<1.0	ng/L	1.0	20
B351791	Total Uranium (U)	2024/04/26	102	80 - 120	107	80 - 120	<0.10	ng/L	NC	20
B351791	Total Vanadium (V)	2024/04/26	63	80 - 120	96	80 - 120	<5.0	ng/L	NC	20
B351791	Total Zinc (Zn)	2024/04/26	97	80 - 120	101	80 - 120	<5.0	ng/L	3.8	20
B351869	Nitrate plus Nitrite (N)	2024/04/26	111	80 - 120	111	80 - 120	<0.020	mg/L	1.0	25
B351883	Nitrite (N)	2024/04/26	109	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20
B351917	True Colour	2024/04/26			86	80 - 120	<2.0	Col. Unit	14	20
B352108	Chloride (Cl)	2024/04/26	66	80 - 120	101	80 - 120	<1.0	mg/L	2.0	20
B352108	Sulphate (SO4)	2024/04/26	86	80 - 120	86	80 - 120	<1.0	mg/L		
B352160	Total Mercury (Hg)	2024/04/26	83	80 - 120	86	80 - 120	<0.0019	ng/L	NC	20
B352181	Alkalinity (PP as CaCO3)	2024/04/26					<1.0	mg/L	NC	20
B352181	Alkalinity (Total as CaCO3)	2024/04/26			97	80 - 120	<1.0	mg/L	3.4	20
B352181	Bicarbonate (HCO3)	2024/04/26					<1.0	mg/L	3.4	20

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APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water

VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike	Spike	Spiked Blank	Slank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B352181	Carbonate (CO3)	2024/04/26					<1.0	mg/L	NC	20
B352181	Hydroxide (OH)	2024/04/26					<1.0	mg/L	NC	20
B352184	Turbidity	2024/04/26			26	80 - 120	<0.10	NTU	5.4	20
B352188	рн	2024/04/26			100	97 - 103			1.0	N/A
B352189	Conductivity	2024/04/26			100	90 - 110	<2.0	uS/cm	0	10
B352261	рн	2024/04/29			100	97 - 103			0.80	N/A
B352264	Conductivity	2024/04/29			100	90 - 110	<2.0	uS/cm	2.9	10
B352266	Alkalinity (PP as CaCO3)	2024/04/29					<1.0	mg/L	NC	20
B352266	Alkalinity (Total as CaCO3)	2024/04/29			96	80 - 120	<1.0	mg/L	1.3	20
B352266	Bicarbonate (HCO3)	2024/04/29					<1.0	mg/L	1.3	20
B352266	Carbonate (CO3)	2024/04/29					<1.0	mg/L	NC	20
B352266	Hydroxide (OH)	2024/04/29					<1.0	mg/L	NC	20
B352271	рн	2024/04/29			100	97 - 103			0.32	N/A
B352278	Conductivity	2024/04/29			100	90 - 110	<2.0	uS/cm	1.0	10
B352279	Alkalinity (PP as CaCO3)	2024/04/29					<1.0	mg/L	NC	20
B352279	Alkalinity (Total as CaCO3)	2024/04/29			101	80 - 120	<1.0	mg/L	16	20
B352279	Bicarbonate (HCO3)	2024/04/29					<1.0	mg/L	16	20
B352279	Carbonate (CO3)	2024/04/29					<1.0	mg/L	NC	20
B352279	Hydroxide (OH)	2024/04/29					<1.0	mg/L	NC	20
B353643	1,1,1,2-tetrachloroethane	2024/04/30	94	70 - 130	97	60 - 130	<0.50	ng/L	NC	30
B353643	1,1,1-trichloroethane	2024/04/30	106	70 - 130	107	60 - 130	<0.50	ng/L	NC	30
B353643	1,1,2,2-tetrachloroethane	2024/04/30	93	70 - 130	92	60 - 130	<0.50	ng/L	NC	30
B353643	1,1,2Trichloro-1,2,2Trifluoroethane	2024/04/30	104	N/A	107	60 - 130	<2.0	ng/L	NC	30
B353643	1,1,2-trichloroethane	2024/04/30	91	70 - 130	94	60 - 130	<0.50	ug/L	NC	30
B353643	1,1-dichloroethane	2024/04/30	100	70 - 130	102	60 - 130	<0.50	ug/L	NC	30
B353643	1,1-dichloroethene	2024/04/30	112	70 - 130	103	60 - 130	<0.50	ug/L	NC	30
B353643	1,2,3-trichlorobenzene	2024/04/30	104	N/A	104	60 - 130	<2.0	ng/L	NC	30
B353643	1,2,4-trichlorobenzene	2024/04/30	101	N/A	101	60 - 130	<2.0	ug/L	NC	30
B353643	1,2-dibromoethane	2024/04/30	94	70 - 130	96	60 - 130	<0.20	ng/L	NC	30
B353643	1,2-dichlorobenzene	2024/04/30	105	70 - 130	105	60 - 130	<0.50	ug/L	NC	30
B353643	1,2-dichloroethane	2024/04/30	97	70 - 130	66	60 - 130	<0.50	ng/L	NC	30
B353643	1,2-dichloropropane	2024/04/30	98	70 - 130	100	60 - 130	<0.50	ug/L	NC	30
B353643	1,3,5-trimethylbenzene	2024/04/30	101	N/A	102	60 - 130	<2.0	ng/L	NC	30

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Bureau Veritas Burnaby: 4606 Canada Way VSG 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



QUALITY ASSURANCE REPORT(CONT'D)

Bureau Veritas Job #: C429048
Report Date: 2024/04/30

VILLAGE OF PEMBERTON Client Project #: ANNUAL WATER SAMPLE

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	GdN	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B353643	1,3-Butadiene	2024/04/30	111	N/A	114	50 - 140	<0.50	ng/L	NC	30
B353643	1,3-dichlorobenzene	2024/04/30	108	70 - 130	109	60 - 130	<0.50	7/8n	NC	30
B353643	1,3-dichloropropane	2024/04/30	98	30 - 130	87	60 - 130	<1.0	ng/L	NC	30
B353643	1,4-dichlorobenzene	2024/04/30	95	70 - 130	95	60 - 130	<0.50	ng/L	NC	30
B353643	Benzene	2024/04/30	99	70 - 130	101	60 - 130	<0.40	ng/L	NC	30
B353643	Bromobenzene	2024/04/30	100	N/A	66	60 - 130	<2.0	7/Bn	NC	30
B353643	Bromodichloromethane	2024/04/30	95	70 - 130	96	60 - 130	<1.0	ng/L	NC	30
B353643	Bromoform	2024/04/30	96	70 - 130	101	60 - 130	<1.0	7∕Bn	NC	30
B353643	Bromomethane	2024/04/30	117	60 - 140	109	50 - 140	<1.0	ng/L	NC	30
B353643	Carbon tetrachloride	2024/04/30	88	70 - 130	68	60 - 130	<0.50	1/8n	NC	30
B353643	Chlorobenzene	2024/04/30	94	70 - 130	26	60 - 130	<0.50	T/Bn	NC	30
B353643	Chloroethane	2024/04/30	73	60 - 140	79	50 - 140	<1.0	7/8n	ON	30
B353643	Chloroform	2024/04/30	66	70 - 130	101	60 - 130	<1.0	ng/L	NC	30
B353643	Chloromethane	2024/04/30	127	60 - 140	128	50 - 140	<1.0	∏/Bn	NC	30
B353643	cis-1,2-dichloroethene	2024/04/30	97	70 - 130	66	60 - 130	<1.0	ng/L	NC	30
B353643	cis-1,3-dichloropropene	2024/04/30	66 (1)	70 - 130	92	50 - 140	<1.0	1/8n	NC	30
B353643	Dibromochloromethane	2024/04/30	96	70 - 130	97	60 - 130	<1.0	ng/L	NC	30
B353643	Dichlorodifluoromethane	2024/04/30	110	N/A	113	50 - 140	<2.0	ng/L	NC	30
B353643	Dichloromethane	2024/04/30	95	70 - 130	98	60 - 130	<2.0	ng/L	NC	30
B353643	Ethylbenzene	2024/04/30	89	70 - 130	91	60 - 130	<0.40	ng/L	NC	30
B353643	Hexachlorobutadiene	2024/04/30	101	N/A	103	60 - 130	<0.50	ng/L	NC	30
B353643	Isopropylbenzene	2024/04/30	89	N/A	88	60 - 130	<2.0	ng/L	NC	30
B353643	m & p-Xylene	2024/04/30	92	70 - 130	94	60 - 130	<0.40	7∕Bn	NC	30
B353643	Methyl-tert-butylether (MTBE)	2024/04/30	92	70 - 130	95	60 - 130	<4.0	ng/L	NC	30
B353643	o-Xylene	2024/04/30	88	70 - 130	06	60 - 130	<0.40	1/8n	NC	30
B353643	Styrene	2024/04/30	92	70 - 130	94	60 - 130	<0.50	ng/L	NC	30
B353643	Tetrachloroethene	2024/04/30	100	70 - 130	104	60 - 130	<0.50	7/Bn	ON	30
B353643	Toluene	2024/04/30	85	70 - 130	87	60 - 130	<0.40	ng/L	NC	30
B353643	trans-1,2-dichloroethene	2024/04/30	101	70 - 130	103	60 - 130	<1.0	7∕Bn	NC	30
B353643	trans-1,3-dichloropropene	2024/04/30	68 (1)	70 - 130	99	50 - 140	<1.0	ng/L	NC	30
B353643	Trichloroethene	2024/04/30	102	70 - 130	96	60 - 130	<0.50	ng/L	NC	30
B353643	Trichlorofluoromethane	2024/04/30	114	60 - 140	117	60 - 130	<4.0	ng/L	NC	30
B353643	VH C6-C10	2024/04/30			78	70 - 130	<300	ng/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

Bureau Veritas Job #: C429048 Report Date: 2024/04/30

VILLAGE OF PEMBERTON
Client Project #: ANNUAL WATER SAMPLE

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	llank	RPD	١
QC Batch	QC Batch Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B353643	Vinyl chloride	2024/04/30	102	60 - 140	104	50 - 140	<0.50	ng/L	NC	30
B353643	B353643 Xylenes (Total)	2024/04/30					<0.40	ng/L	NC	30
B353644	Dissolved Fluoride (F)	2024/04/29	105	80 - 120	101	80 - 120	<0.050	mg/L	NC	70
B353829	B353829 Total Dissolved Solids	2024/04/30	102	80 - 120	26	80 - 120	<10	mg/L	0.51	70
oldenias Apple AVIA	old coll.									

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.



Your C.O.C. #: C#716107-01-01

Attention: Reece Clark

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

Report Date: 2024/05/06

Report #: R3496211 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C407253 Received: 2024/02/02, 08:35

Sample Matrix: Drinking Water

Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	4	N/A	2024/02/02	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/02/02	BBY6SOP-00011 /	SM24-4500-Cl/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A	2024/02/02	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	4	N/A	2024/02/02	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/02/02	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/02/05	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/02/02	2024/02/02	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/02/05	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/02/02	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A	2024/02/02	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/02/02	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/02/02	BBY WI-00033	Auto Calc
pH @25°C (2)	4	N/A	2024/02/02	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/02/05	2024/02/06	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/02/02	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



Your C.O.C. #: C#716107-01-01

Attention: Reece Clark

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

Report Date: 2024/05/06

Report #: R3496211 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C407253 Received: 2024/02/02, 08:35

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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Morgan Melnychuk Customer Solutions Representative 06 May 2024 10:27:44

Please direct all questions regarding this Certificate of Analysis to: Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bureauveritas.com

Phone# (604) 734 7276

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CIM489	CIM490	CIM491			
Sampling Date					2024/01/31	2024/01/31	2024/01/31			
Sampling Date					08:30	08:45	09:00			
COC Number					C#716107-01-01	C#716107-01-01	C#716107-01-01			
	UNITS	MAC	AO	OG	WELL#2	WELL#3	RIDGE	RDL	QC Batch	
ANIONS										
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	B272507	
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	-	-	-	74.9	32.9	34.4	0.50	B272120	
Nitrate (N)	mg/L	10	-	-	0.287	0.164	0.167	0.020	B272117	
Misc. Inorganics								•		
Conductivity	uS/cm	-	-	-	270	110	200	2.0	B272535	
рН	pН	-	-	7.0:10.5	6.75	6.22	6.89	N/A	B272528	
Total Dissolved Solids	mg/L	-	500	-	170	70	120	10	B274436	
Anions										
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B272532	
Alkalinity (Total as CaCO3)	mg/L	-	-	-	36	20	60	1.0	B272532	
Bicarbonate (HCO3)	mg/L	-	-	-	44	25	74	1.0	B272532	
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B272532	
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B272584	
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B272532	
Chloride (Cl)	mg/L		250	-	41	11	13	1.0	B272740	
Sulphate (SO4)	mg/L	-	500	-	21	10	11	1.0	B272740	
MISCELLANEOUS						•	•			
True Colour	Col. Unit	1	15	-	<2.0	2.3	<2.0	2.0	B272503	
Nutrients										
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.287	0.164	0.167	0.020	B272505	
Physical Properties					-	-	-			
Turbidity	NTU	see remark	see remark	see remark	0.40	<0.10	<0.10	0.10	B272560	
No Fill	lo Exceedar	nce			-	-	-			
Grey	Exceeds 1 criteria policy/level									
Black Exceeds both criteria/levels										
RDL = Reportable Detection										
N/A = Not Applicable										

N/A = Not Applicable



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID						CIM492				
Sampling Date						2024/01/31 09:15				
COC Number						C#716107-01-01				
		UNITS	MAC	AO	OG	FORM RD	RDL	QC Batch		
ANIONS										
Nitrite (N)		mg/L	1	-	-	<0.0050	0.0050	B272507		
Calculated Parameters	Calculated Parameters									
Total Hardness (CaCO	3)	mg/L	-	-	-	34.6	0.50	B272120		
Nitrate (N)		mg/L	10	10 -		0.380	0.020	B272117		
Misc. Inorganics										
Conductivity		uS/cm	-	-	-	200	2.0	B272535		
рН		рН	•	1	7.0:10.5	7.03	N/A	B272528		
Total Dissolved Solids		mg/L	-	500	-	100	10	B274436		
Anions										
Alkalinity (PP as CaCO3)		mg/L	-	-	-	<1.0	1.0	B272532		
Alkalinity (Total as CaCO3)		mg/L	-	-	-	61	1.0	B272532		
Bicarbonate (HCO3)		mg/L	-	-	-	74	1.0	B272532		
Carbonate (CO3)		mg/L	-	•	-	<1.0	1.0	B272532		
Dissolved Fluoride (F)		mg/L	1.5	-	-	<0.050	0.050	B272584		
Hydroxide (OH)		mg/L	-	-	-	<1.0	1.0	B272532		
Chloride (Cl)		mg/L	-	250	-	13	1.0	B272740		
Sulphate (SO4)		mg/L	-	500	-	11	1.0	B272740		
MISCELLANEOUS										
True Colour		Col. Unit	-	15	-	<2.0	2.0	B272503		
Nutrients										
Nitrate plus Nitrite (N))	mg/L	-	-	-	0.380	0.020	B272505		
Physical Properties										
Turbidity		NTU	see remark	see remark	see remark	0.20	0.10	B272560		
No Fill N	lo Exce	edance								
Grey	Exceeds 1 criteria policy/level									
Black E	Black Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
N/A = Not Applicable	N/A = Not Applicable									



VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID	reau Veritas ID		CIM489	CIM490	CIM491	CIM492				
Sampling Date			2024/01/31 08:30	2024/01/31 08:45	2024/01/31 09:00	2024/01/31 09:15				
COC Number				C#716107-01-01	C#716107-01-01	C#716107-01-01	C#716107-01-01			
		UNITS	MAC	WELL#2	WELL#3	RIDGE	FORM RD	RDL	QC Batch	
Elements										
Total Mercury (Hg) ug/L 1				<0.030 (1)	<0.030 (1) <0.030 (1)		<0.030 (1)	0.030	B272153	
No Fill	No Ex	No Exceedance								
Grey	Excee	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										
(1) Mercury RDL raised due to background interference.										



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CIM489	CIM490	CIM491	CIM492		
Sampling Date					2024/01/31 08:30	2024/01/31 08:45	2024/01/31 09:00	2024/01/31 09:15		
COC Number					C#716107-01-01	C#716107-01-01	C#716107-01-01	C#716107-01-01		
	UNITS	MAC	AO	OG	WELL#2	WELL#3	RIDGE	FORM RD	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (AI)	ug/L	2900	-	100	6.4	8.2	4.2	24.2	3.0	B272413
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B272413
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B272413
Total Barium (Ba)	ug/L	2000	-	-	48.5	21.2	20.9	22.4	1.0	B272413
Total Boron (B)	ug/L	5000	-	-	126	<50	<50	<50	50	B272413
Total Cadmium (Cd)	ug/L	7	-	-	0.018	0.028	<0.010	0.098	0.010	B272413
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B272413
Total Cobalt (Co)	ug/L	-	-	-	0.20	0.22	<0.20	<0.20	0.20	B272413
Total Copper (Cu)	ug/L	2000	1000	1	1.73	3.36	4.24	7.55	0.20	B272413
Total Iron (Fe)	ug/L	-	300	1	183	32.3	30.7	38.9	5.0	B272413
Total Lead (Pb)	ug/L	5	-	-	<0.20	0.77	0.21	<0.20	0.20	B272413
Total Manganese (Mn)	ug/L	120	20	-	82.7	65.9	7.6	18.9	1.0	B272413
Total Molybdenum (Mo)	ug/L	-	-	1	2.4	<1.0	<1.0	<1.0	1.0	B272413
Total Nickel (Ni)	ug/L	-	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B272413
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B272413
Total Silver (Ag)	ug/L	-	-	١	<0.020	<0.020	<0.020	<0.020	0.020	B272413
Total Strontium (Sr)	ug/L	7000	-	-	174	68.0	69.6	70.9	1.0	B272413
Total Uranium (U)	ug/L	20	-	1	<0.10	<0.10	<0.10	<0.10	0.10	B272413
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B272413
Total Zinc (Zn)	ug/L	-	5000	١	26.4	6.3	6.1	<5.0	5.0	B272413
Total Calcium (Ca)	mg/L	-	-	-	27.3	12.0	12.5	12.6	0.050	B272118
Total Magnesium (Mg)	mg/L	-	-	-	1.63	0.711	0.755	0.760	0.050	B272118
Total Potassium (K)	mg/L	-	-	-	2.64	1.06	1.11	1.11	0.050	B272118
Total Sodium (Na)	mg/L	-	200	-	15.8	5.08	24.8	25.0	0.050	B272118
Total Sulphur (S)	mg/L	-	-	-	6.8	3.4	3.5	3.6	3.0	B272118

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit



VILLAGE OF PEMBERTON

GENERAL COMMENTS

Version #2: Mercury RDL raised due to background interference.

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, September 2022.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	SLINO	Value (%)	QC Limits
B272153	Total Mercury (Hg)	2024/02/02	84	80 - 120	66	80 - 120	<0.0019	7/8n	NC	20
B272413	Total Aluminum (Al)	2024/02/02	86	80 - 120	100	80 - 120	<3.0	7/Bn	NC	20
B272413	Total Antimony (Sb)	2024/02/02	86	80 - 120	97	80 - 120	<0.50	7/Bn	NC	20
B272413	Total Arsenic (As)	2024/02/02	102	80 - 120	102	80 - 120	<0.10	7/Bn	NC	20
B272413	Total Barium (Ba)	2024/02/02	100	80 - 120	100	80 - 120	<1.0	ng/L	NC	20
B272413	Total Boron (B)	2024/02/02	26	80 - 120	96	80 - 120	<50	√gn	NC	20
B272413	Total Cadmium (Cd)	2024/02/02	86	80 - 120	98	80 - 120	<0.010	1/Bn	NC	20
B272413	Total Chromium (Cr)	2024/02/02	96	80 - 120	98	80 - 120	<1.0	1/8n	NC	20
B272413	Total Cobalt (Co)	2024/02/02	86	80 - 120	95	80 - 120	<0.20	7/8n	2.1	20
B272413	Total Copper (Cu)	2024/02/02	16	80 - 120	92	80 - 120	<0.20	7/Bn	2.8	20
B272413	Total Iron (Fe)	2024/02/02	100	80 - 120	97	80 - 120	<5.0	1/Bn	NC	20
B272413	Total Lead (Pb)	2024/02/02	26	80 - 120	96	80 - 120	<0.20	7/Bn	NC	20
B272413	Total Manganese (Mn)	2024/02/02	26	80 - 120	66	80 - 120	<1.0	1/Bn	NC	20
B272413	Total Molybdenum (Mo)	2024/02/02	101	80 - 120	100	80 - 120	<1.0	7/8n	NC	20
B272413	Total Nickel (Ni)	2024/02/02	56	80 - 120	97	80 - 120	<1.0	7/8n	0.25	20
B272413	Total Selenium (Se)	2024/02/02	100	80 - 120	66	80 - 120	<0.10	7/Bn	3.9	20
B272413	Total Silver (Ag)	2024/02/02	97	80 - 120	98	80 - 120	<0.020	ng/L	NC	20
B272413	Total Strontium (Sr)	2024/02/02	101	80 - 120	102	80 - 120	<1.0	7/8n	0.19	20
B272413	Total Uranium (U)	2024/02/02	66	80 - 120	100	80 - 120	<0.10	ng/L	NC	20
B272413	Total Vanadium (V)	2024/02/02	97	80 - 120	99	80 - 120	<5.0	ng/L	NC	20
B272413	Total Zinc (Zn)	2024/02/02	97	80 - 120	99	80 - 120	<5.0	ng/L	NC	20
B272503	True Colour	2024/02/02			101	80 - 120	<2.0	Col. Unit	NC	20
B272505	Nitrate plus Nitrite (N)	2024/02/02	113	80 - 120	108	80 - 120	<0.020	mg/L	1.4	25
B272507	Nitrite (N)	2024/02/02	79 (1)	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
B272528	рн	2024/02/02			100	97 - 103			0.093	N/A
B272532	Alkalinity (PP as CaCO3)	2024/02/02					<1.0	mg/L	NC	20
B272532	Alkalinity (Total as CaCO3)	2024/02/02			89	80 - 120	<1.0	mg/L	0.54	20
B272532	Bicarbonate (HCO3)	2024/02/02					<1.0	mg/L	0.54	20
B272532	Carbonate (CO3)	2024/02/02					<1.0	mg/L	NC	20
B272532	Hydroxide (OH)	2024/02/02					<1.0	mg/L	NC	20
8272535	Conductivity	2024/02/02			101	90 - 110	<2.0	uS/cm	0.15	10
B272560	Turbidity	2024/02/02			97	80 - 120	<0.10	NTO	NC	20
B272584	Dissolved Fluoride (F)	2024/02/02	107	80 - 120	105	80 - 120	<0.050	mg/L	NC	20
B272740	Chloride (CI)	2024/02/02	107	80 - 120	95	80 - 120	<1.0	mg/L	NC	20
			0 0000	717						

Page 8 of 10

Bureau Veritas Burnaby: 4606 Canada Way VSG 1KS Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B272740	Sulphate (SO4)	2024/02/02	66	80 - 120	97	80 - 120	<1.0	mg/L	NC	20
B274436	Total Dissolved Solids	2024/02/06	102	80 - 120	66	80 - 120	<10	mg/L	5.7	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.

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.

		Bottle Order#:		716107	roject manager	Customer Solutions	aguired:	BOD and Chousing-Turering are > 5 diseasor) Advance: (cal lab for 4)	The same of the sa							l	一直を設定を	Custory Seal intect on Cooler? The No Notice Chert White: Bureat Verifies Yellow Chert
	Laboratory Use Only	Bureau Veritas Job#		Ohole Of Creekely Barness	Bloom Crosses In History	C#716107-01-01	Tumaround Time (TAT) Required:	Regular (Samoiaru) 1/AT: Standard 1/AT is not speedind): Standard 1/AT is 57 Working dogs for roast tests. Please note: Standard 1/AT for desiden mats som as 8/OL and DioutinsFurens are > 5 degree-code; Standard 1/AT for desiden mats som as 8/OL and DioutinsFurens are > 5 degree-code; Standard 1/AT for desiden mats som as 8/OL and DioutinsFurens are > 5 degree-code; Standard 1/AT for options to entire submission; 10 MY									C407253 COC	Only
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		Quotation #	P.O.#	Project #	Project Name	Site# Sampled By	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)											PACE 02/02/02
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Your Project #: DW kits without Micro

Your C.O.C. #: 718396-01-01

Attention: Reece Clark

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

Report Date: 2024/05/06

Report #: R3496210 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C414646 Received: 2024/03/01, 10:25

Sample Matrix: Drinking Water

Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	3	N/A	2024/03/01	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2024/03/02	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/03/05	BBY6SOP-00011 /	SM24-4500-Cl/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A	2024/03/01	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	3	N/A	2024/03/01	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	1	N/A	2024/03/02	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/03/04	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/03/06	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/03/04	2024/03/04	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/03/06	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/03/05	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A	2024/03/01	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/03/01	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/03/01	BBY WI-00033	Auto Calc
pH @25°C (2)	3	N/A	2024/03/01	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (2)	1	N/A	2024/03/02	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/03/05	2024/03/06	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/03/01	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.



Your Project #: DW kits without Micro

Your C.O.C. #: 718396-01-01

Attention: Reece Clark

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

Report Date: 2024/05/06

Report #: R3496210 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C414646

Received: 2024/03/01, 10:25

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Morgan Melnychuk Customer Solutions Representative 06 May 2024 10:27:38

Please direct all questions regarding this Certificate of Analysis to: Customer Solutions, Western Canada Customer Experience Team Email: customersolutionswest@bureauveritas.com

Phone# (604) 734 7276

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON Client Project #: DW kits without Micro

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CKC155	CKC156	CKC157		
Sampling Date					2024/02/09	2024/02/09	2024/02/09		
Jamping Date					09:00	09:30	10:00		
COC Number					718396-01-01	718396-01-01	718396-01-01		
	UNITS	MAC	AO	OG	RIDGE	FARM RD	WELL#2	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050 (1)	<0.0050	0.0050	B301068
Calculated Parameters		•			•				
Total Hardness (CaCO3)	mg/L	-	-	-	34.7	33.6	71.3	0.50	B300337
Nitrate (N)	mg/L	10	-	-	0.209	0.211	0.244	0.020	B300299
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	200	190	270	2.0	B301079
рН	pН	-	-	7.0:10.5	7.23	7.26	6.65	N/A	B301077
Total Dissolved Solids	mg/L	-	500	-	100	110	160	10	B303874
Anions					-				
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B301078
Alkalinity (Total as CaCO3)) mg/L	-	-	-	62	60	35	1.0	B301078
Bicarbonate (HCO3)	mg/L	-	-	-	75	74	43	1.0	B301078
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B301078
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B302589
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B301078
Chloride (Cl)	mg/L	-	250	-	16	15	43	1.0	B302510
Sulphate (SO4)	mg/L	-	500	-	10	10	19	1.0	B302510
MISCELLANEOUS	-								
True Colour	Col. Unit	-	15	-	<2.0	<2.0	<2.0	2.0	B300457
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.209	0.211 (1)	0.244	0.020	B301067
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.11	0.30	0.21	0.10	B301008
No Fill	No Exceedan	ce							
Grey	Exceeds 1 crit	teria policy/le	evel						
Black	Exceeds both	criteria/leve	ls						
RDL = Reportable Detection	on Limit								
N/A = Not Applicable									
(1) Matrix spike exceeds a	cceptance lim	nits due to ma	atrix interfer	ence.					

(1) Matrix spike exceeds acceptance limits due to matrix interference.



VILLAGE OF PEMBERTON

Client Project #: DW kits without Micro

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CKC158		
Sampling Date					2024/02/09 10:15		
COC Number					718396-01-01		
	UNITS	MAC	AO	OG	WELL#3	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	B301068
Calculated Parameters							
Total Hardness (CaCO3)) mg/L	-	-	-	27.1	0.50	B300337
Nitrate (N)	mg/L	10	-	-	0.203	0.020	B300299
Misc. Inorganics							
Conductivity	uS/cm	- ۱	-	-	93	2.0	B301002
рН	pН	-	-	7.0:10.5	6.44	N/A	B300957
Total Dissolved Solids	mg/L	-	500	-	54	10	B303874
Anions							
Alkalinity (PP as CaCO3)) mg/L	-	-	-	<1.0	1.0	B301001
Alkalinity (Total as CaCo	03) mg/L	-	-	-	17	1.0	B301001
Bicarbonate (HCO3)	mg/L	-	-	-	21	1.0	B301001
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	B301001
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	B302589
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	B301001
Chloride (Cl)	mg/L	-	250	-	8.6	1.0	B302510
Sulphate (SO4)	mg/L	-	500	-	8.7	1.0	B302510
MISCELLANEOUS							
True Colour	Col. Ur	it -	15	-	<2.0	2.0	B300457
Nutrients							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.203	0.020	B301067
Physical Properties							
Turbidity	NTU	see remark	see remark	see remark	0.24	0.10	B301008
No Fill No	Exceedance						
Grey Exc	ceeds 1 criteri	a policy/level					
Black Exc	ceeds both cri	teria/levels					
RDL = Reportable Detec	ction Limit						
N/A = Not Applicable							



VILLAGE OF PEMBERTON

Client Project #: DW kits without Micro

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID				CKC155	CKC156	CKC157	CKC158		
Sampling Date				2024/02/09 09:00	2024/02/09 09:30	2024/02/09 10:00	2024/02/09 10:15		
COC Number				718396-01-01	718396-01-01	718396-01-01	718396-01-01		
		UNITS	MAC	RIDGE	FARM RD	WELL#2	WELL#3	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	<0.030 (1)	<0.030 (1)	<0.030 (1)	<0.030 (1)	0.030	B302854
No Fill	No Exc	eedance	2						
Grey	Exceed	s 1 crite	ria po	licy/level					
Black	Exceed	s both o	riteria	/levels					
RDL = Reportable De	tection Li	imit							
(1) Mercury RDL raise	ed due to	backgr	ound i	nterference.					



VILLAGE OF PEMBERTON Client Project #: DW kits without Micro

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CKC155	CKC156	CKC157	CKC158		
Sampling Date					2024/02/09	2024/02/09	2024/02/09	2024/02/09		
Sampling Date					09:00	09:30	10:00	10:15		
COC Number					718396-01-01	718396-01-01	718396-01-01	718396-01-01		
	UNITS	MAC	AO	OG	RIDGE	FARM RD	WELL#2	WELL#3	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2900	-	100	5.5	9.1	10.3	8.0	3.0	B302748
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B302748
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B302748
Total Barium (Ba)	ug/L	2000	-	-	22.2	22.4	47.9	18.4	1.0	B302748
Total Boron (B)	ug/L	5000	-	-	86	78	179	57	50	B302748
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	0.032	<0.010	0.033	0.010	B302748
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B302748
Total Cobalt (Co)	ug/L	-	-	-	<0.20	<0.20	0.22	<0.20	0.20	B302748
Total Copper (Cu)	ug/L	2000	1000	-	3.03	4.67	2.11	2.79	0.20	B302748
Total Iron (Fe)	ug/L	-	300	-	26.5	32.0	71.6	18.1	5.0	B302748
Total Lead (Pb)	ug/L	5	-	-	0.57	<0.20	0.25	0.63	0.20	B302748
Total Manganese (Mn)	ug/L	120	20	-	8.1	28.1	93.8	39.0	1.0	B302748
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	<1.0	2.4	<1.0	1.0	B302748
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B302748
Total Selenium (Se)	ug/L	50	1	-	<0.10	<0.10	<0.10	<0.10	0.10	B302748
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	<0.020	<0.020	0.020	B302748
Total Strontium (Sr)	ug/L	7000	-	-	74.8	72.6	177	56.2	1.0	B302748
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B302748
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B302748
Total Zinc (Zn)	ug/L	-	5000	-	6.2	<5.0	14.3	<5.0	5.0	B302748
Total Calcium (Ca)	mg/L	-	-	-	12.7	12.3	25.9	9.92	0.050	B300473
Total Magnesium (Mg)	mg/L	-	-	-	0.735	0.710	1.62	0.553	0.050	B300473
Total Potassium (K)	mg/L	-	-	-	1.31	1.26	2.64	1.01	0.050	B300473
Total Sodium (Na)	mg/L	-	200	-	23.1	23.2	14.4	4.11	0.050	B300473
Total Sulphur (S)	mg/L	-	-	-	3.6	3.3	6.5	<3.0	3.0	B300473
No Fill N	o Exceedar	nce			<u> </u>			<u> </u>		
Grev	xceeds 1 cr	iteria r	olicv/	evel						

No Fill Grey Black

Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Bureau Veritas Job #: C414646 Report Date: 2024/05/06

VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

GENERAL COMMENTS

Version #2: Mercury RDL raised due to background interference.

Sample CKC155 [RIDGE]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specified hold time for Color (True) by Sample was analyzed past method specif

Sample CKC156 [FARM RD]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue).

Sample CKC157 [WELL#2]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue).

Sample CKC158 [WELL#3]: Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample was analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue).

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, September 2022.

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.

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

QUALITY ASSURANCE REPORT

VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	3lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B300457	True Colour	2024/03/01			66	80 - 120	<2.0	Col. Unit	NC	20
B300957	Нф	2024/03/01			100	97 - 103			0.030	N/A
B301001	Alkalinity (PP as CaCO3)	2024/03/01					<1.0	mg/L	NC	20
B301001	Alkalinity (Total as CaCO3)	2024/03/01			103	80 - 120	<1.0	mg/L	0.039	20
B301001	Bicarbonate (HCO3)	2024/03/01					<1.0	mg/L	0.039	20
B301001	Carbonate (CO3)	2024/03/01					<1.0	mg/L	NC	20
B301001	Hydroxide (OH)	2024/03/01					<1.0	mg/L	NC	20
B301002	Conductivity	2024/03/01			86	90 - 110	<2.0	m2/cm	0	10
B301008	Turbidity	2024/03/01			104	80 - 120	<0.10	UTN	7.5	20
B301067	Nitrate plus Nitrite (N)	2024/03/01	40	A/N	103	80 - 120	<0.020	mg/L	0.033	25
B301068	Nitrite (N)	2024/03/01	79 (1)	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
B301077	рн	2024/03/02			100	97 - 103			0.038	N/A
B301078	Alkalinity (PP as CaCO3)	2024/03/02					<1.0	mg/L	NC	20
B301078	Alkalinity (Total as CaCO3)	2024/03/02			105	80 - 120	<1.0	mg/L	2.5	20
B301078	Bicarbonate (HCO3)	2024/03/02					<1.0	mg/L	2.5	20
B301078	Carbonate (CO3)	2024/03/02					<1.0	mg/L	NC	20
B301078	Hydroxide (OH)	2024/03/02					<1.0	mg/L	NC	20
B301079	Conductivity	2024/03/02			66	90 - 110	<2.0	uS/cm	0	10
B302510	Chloride (CI)	2024/03/05	NC	80 - 120	105	80 - 120	<1.0	mg/L	0.18	20
B302510	Sulphate (SO4)	2024/03/05	94	80 - 120	97	80 - 120	<1.0	mg/L	0.47	20
B302589	Dissolved Fluoride (F)	2024/03/04	101	80 - 120	104	80 - 120	<0.050	mg/L	NC	20
B302748	Total Aluminum (AI)	2024/03/05	105	80 - 120	96	80 - 120	<3.0	ng/L	1.4	20
B302748	Total Antimony (Sb)	2024/03/05	109	80 - 120	101	80 - 120	<0.50	ng/L	NC	20
B302748	Total Arsenic (As)	2024/03/05	117	80 - 120	107	80 - 120	<0.10	ng/L	1.6	20
B302748	Total Barium (Ba)	2024/03/05	112	80 - 120	102	80 - 120	<1.0	ng/L	0.24	20
B302748	Total Boron (B)	2024/03/05	113	80 - 120	105	80 - 120	05>	ng/L	NC	20
B302748	Total Cadmium (Cd)	2024/03/05	109	80 - 120	102	80 - 120	<0.010	ng/L	11	20
B302748	Total Chromium (Cr)	2024/03/05	107	80 - 120	66	80 - 120	<1.0	ng/L	NC	20
B302748	Total Cobalt (Co)	2024/03/05	104	80 - 120	96	80 - 120	<0.20	ng/L	NC	20
B302748	Total Copper (Cu)	2024/03/05	107	80 - 120	95	80 - 120	<0.20	ng/L	1.5	20
B302748	Total Iron (Fe)	2024/03/05	112	80 - 120	103	80 - 120	<5.0	ng/L	1.9	20
B302748	Total Lead (Pb)	2024/03/05	110	80 - 120	101	80 - 120	<0.20	ng/L	2.3	20
B302748	Total Manganese (Mn)	2024/03/05	107	80 - 120	66	80 - 120	<1.0	ng/L	0.0091	20

Page 9 of 11

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



QUALITY ASSURANCE REPORT(CONT'D)

Bureau Veritas Job #: C414646 Report Date: 2024/05/06

VILLAGE OF PEMBERTON
Client Project #: DW kits without Micro

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	•
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B302748	Total Molybdenum (Mo)	2024/03/05	112	80 - 120	103	80 - 120	<1.0	ng/L	NC	20
B302748	Total Nickel (Ni)	2024/03/05	106	80 - 120	66	80 - 120	<1.0	ng/L	NC	70
B302748	Total Selenium (Se)	2024/03/05	111	80 - 120	102	80 - 120	<0.10	ng/L	NC	70
B302748	Total Silver (Ag)	2024/03/05	109	80 - 120	102	80 - 120	<0.020	ng/L	NC	70
B302748	Total Strontium (Sr)	2024/03/05	NC	80 - 120	103	80 - 120	<1.0	ng/L	1.0	07
B302748	Total Uranium (U)	2024/03/05	113	80 - 120	103	80 - 120	<0.10	1/8n	NC	07
B302748	Total Vanadium (V)	2024/03/05	110	80 - 120	100	80 - 120	<5.0	ng/L	NC	70
B302748	Total Zinc (Zn)	2024/03/05	103	80 - 120	100	80 - 120	<5.0	ng/L	0.72	70
B302854	Total Mercury (Hg)	2024/03/04	97	80 - 120	106	80 - 120	<0.0019	ng/L	3.5	70
B303874	Total Dissolved Solids	2024/03/06	NC	80 - 120	96	80 - 120	<10	mg/L	3.4	70
oldenian A to Man A N	- - - - - - - - - -									

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.

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.

	INVOICE TO:			Report information	uo		Project Information	mation	MIVAIN-2024-03-052	Alt.
Company Mana #99020 VILLY	#99020 VILLAGE OF PEMBERTON	· c	Company Name			Occidental	C31790		2010年10日	Bottle Order #:
	ible	8	Contact Name & Porco	Cerk	. 10	# 00				
	Prospect St	Ad	¥.			Project #	DW kits wif	DW kits without Micro		718396
Pemberton BC V0N 2L0						Project Name			Chain Of Custody Record	Project Nanager
	Fax Pamperton ca	(604) 894-6855 Ph	Phone 604 353 5'845 Fac	S'84S	Fac	Site		- Company and the Company of the Com		Customer Solutions
Denilation Citation			Special			ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	SE BE SPECIFIC)		Tumaround Time (TAT) Required	(TAT) Required:
regulatery criteria;		•	a company		-		-	-	Disease stood did not be	The state of the s
CSR		Please	Please Pled Against	£5.					Please provide auvence notice for rush projects Regular (Standard) TAT:	notice for rush projects
COME		A O A	AD J MAC		0				(will be applied if Rush TAT is not specified):	
BC Water Quelly		2		(N.)/M 6				Standard TAT = 5-7 Working days for most tests.	tosts.
į				(A) &	жэдж				Pleese note: Standard TAT for certain lests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	such as BOD and Dioxins/Furans are sits.
- Const	1			per	Pac				Job Specific Rush TAT (if applies to entire submission)	ire submission)
			***************************************	- -	Vater				1 DAY 2 Day 3 Day	Date Required:
SAMPLES MUST BE KEPT C	SAMPLES MUST BE KEPT COOL (< 10°C FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU	AIPLING UNTIL DELIVE	ERY TO BUREAU VERITAS	lei∃ si	V gail				Rush Confirmation Number:	(call lab for #)
Sample Barcode Label	Sample (Location) Identification	nton Date Sampled	mpled Time Sampled	Matrix	Drink				# of Bottes	Comments
	30012	24/22/29	129 9:00 pm		2					
	Farm Rd	30/102	34/02/20 91.30MB		7					
	Well #2	CAR	MACO 101 Majache		2					
	Well #3	che	MASI 501 Papalue		7	material de la company de la c				
				-						
* RELINQUISHED RY: (Signatura/Print)		Date; (YYJMMDD)	Time	PESEIVED BY	EIVED BY: (Signatura/Frint)	Date: (YYMMADD)	1	afare used and	Leb Use Only	
/ Recen	Pecce Clark	04/05/20	10:70 M	40	THED INDIA	0/50/1/01	1 10:25	-	Time Senselive Temperature (*C) on Recept	Custody Seel Intact on Cooler?



Your Project #: DRINKING WATER WITHOUT MICRO

Your C.O.C. #: C#724783-01-01

Attention: Reece Clark

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

Report Date: 2024/05/30

Report #: R3506572 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C436894 Received: 2024/05/24, 08:30

Sample Matrix: Drinking Water # Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	4	N/A	2024/05/24	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/05/24	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Color (True) by Automated Analyzer	4	N/A	2024/05/24	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	4	N/A	2024/05/24	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/05/24	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/05/25	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/05/28	2024/05/28	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/05/25	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/05/25	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Nitrate + Nitrite (N)	4	N/A	2024/05/24	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/05/24	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/05/24	BBY WI-00033	Auto Calc
pH @25°C (2)	4	N/A	2024/05/24	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	3	2024/05/24	2024/05/25	BBY6SOP-00033	SM 24 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2024/05/27	2024/05/28	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/05/24	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Your Project #: DRINKING WATER WITHOUT MICRO

Your C.O.C. #: C#724783-01-01

Attention: Reece Clark

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

Report Date: 2024/05/30

Report #: R3506572 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C436894 Received: 2024/05/24, 08:30 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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas 30 May 2024 13:09:25

Please direct all questions regarding this Certificate of Analysis to:

Aldean Alicando, Customer Solutions Representative

Email: Aldean. ALICANDO@bureauveritas.com

Phone# (604)734-7272 Ext:7062605

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

Client Project #: DRINKING WATER WITHOUT MICRO

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CNZ684	CNZ685	CNZ686		
Sampling Date					2024/05/23	2024/05/23	2024/05/23		
Jumphing Date					08:00	08:15	08:30		
COC Number					C#724783-01-01	C#724783-01-01	C#724783-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	RIDGE	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	B378671
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	67.9	30.9	30.2	0.50	B378407
Nitrate (N)	mg/L	10	-	-	0.400	0.160	0.160	0.020	B378375
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	240	100	200	2.0	B378701
рН	pН	-	-	7.0:10.5	6.42	6.30	7.18	N/A	B378700
Total Dissolved Solids	mg/L	-	500	-	150	52	110	10	B378562
Anions	•								
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B378695
Alkalinity (Total as CaCO3)	mg/L	-	-	-	33	17	68	1.0	B378695
Bicarbonate (HCO3)	mg/L	-	-	-	40	21	83	1.0	B378695
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B378695
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B378693
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B378695
Chloride (Cl)	mg/L	-	250	-	38	9.6	11	1.0	B378674
Sulphate (SO4)	mg/L	-	500	-	19	10	9.9	1.0	B378674
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	7.3	<2.0	<2.0	2.0	B378716
Nutrients						-			
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.400	0.160	0.160	0.020	B378660
Physical Properties					-	-		-	
Turbidity	NTU	see remark	see remark	see remark	0.32	0.14	0.21	0.10	B378668
No Fill	No Exceedar	nce							
Grey	xceeds 1 cr	iteria policy/	level						
•		h criteria/lev							
RDL = Reportable Detection	Limit	,							
N/A = Not Applicable									



VILLAGE OF PEMBERTON
Client Project #: DRINKING WATER WITHOUT MICRO

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CNZ687		
Samuelina Bata					2024/05/23		
Sampling Date					08:45		
COC Number					C#724783-01-01		
	UNITS	MAC	AO	OG	FARM RD	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	B378671
Calculated Parameters	•						
Total Hardness (CaCO3)	mg/L	-	-	-	29.9	0.50	B378407
Nitrate (N)	mg/L	10	-	-	0.160	0.020	B378375
Misc. Inorganics							
Conductivity	uS/cm	-	-	-	200	2.0	B378701
рН	pН	-	-	7.0:10.5	7.20	N/A	B378700
Total Dissolved Solids	mg/L	-	500	-	110	10	B380828
Anions							
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	B378695
Alkalinity (Total as CaCO3	B) mg/L	-	-	-	68	1.0	B378695
Bicarbonate (HCO3)	mg/L	-	-	-	83	1.0	B378695
Carbonate (CO3)	mg/L	•	-	-	<1.0	1.0	B378695
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	B378693
Hydroxide (OH)	mg/L	1	-	-	<1.0	1.0	B378695
Chloride (Cl)	mg/L	-	250	-	10	1.0	B378674
Sulphate (SO4)	mg/L	-	500	-	9.8	1.0	B378674
MISCELLANEOUS							
True Colour	Col. Unit	-	15	-	<2.0	2.0	B378716
Nutrients							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.160	0.020	B378660
Physical Properties							
Turbidity	NTU	see remark	see remark	see remark	0.19	0.10	B378668
No Fill No E	Exceedance						1
Grey Exce	eds 1 criteria	policy/level					- 1
Black Exce	eds both crite	ria/levels					
RDL = Reportable Detecti	on Limit						
N/A = Not Applicable							



VILLAGE OF PEMBERTON
Client Project #: DRINKING WATER WITHOUT MICRO

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID				CNZ684	CNZ685	CNZ686	CNZ687		
Sampling Date				2024/05/23 08:00	2024/05/23 08:15	2024/05/23 08:30	2024/05/23 08:45		
COC Number				C#724783-01-01	C#724783-01-01	C#724783-01-01	C#724783-01-01		
		UNITS	MAC	WELL #2	WELL #3	RIDGE	FARM RD	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	B381992
No Fill	No Ex	o Exceedance							
Grey	Excee	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels								
RDL = Reportable Dete	ction Li								



VILLAGE OF PEMBERTON

Client Project #: DRINKING WATER WITHOUT MICRO

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CNZ684	CNZ685	CNZ686	CNZ687		
Sampling Date					2024/05/23	2024/05/23	2024/05/23	2024/05/23		
Sampling Date					08:00	08:15	08:30	08:45		
COC Number					C#724783-01-01	C#724783-01-01	C#724783-01-01	C#724783-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	RIDGE	FARM RD	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2900	-	100	3.6	6.7	<3.0	3.7	3.0	B379392
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B379392
Total Arsenic (As)	ug/L	10	-	1	<0.10	<0.10	<0.10	<0.10	0.10	B379392
Total Barium (Ba)	ug/L	2000	-	١	39.9	17.0	16.6	16.0	1.0	B379392
Total Boron (B)	ug/L	5000	-	1	132	<50	<50	<50	50	B379392
Total Cadmium (Cd)	ug/L	7	-	-	0.010	0.028	<0.010	<0.010	0.010	B379392
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B379392
Total Cobalt (Co)	ug/L	-	-	-	<0.20	<0.20	<0.20	<0.20	0.20	B379392
Total Copper (Cu)	ug/L	2000	1000	-	1.99	3.34	4.07	6.43	0.20	B379392
Total Iron (Fe)	ug/L	-	300	-	68.4	25.3	18.3	18.7	5.0	B379392
Total Lead (Pb)	ug/L	5	-	•	<0.20	0.39	<0.20	<0.20	0.20	B379392
Total Manganese (Mn)	ug/L	120	20	-	56.9	58.3	4.8	12.9	1.0	B379392
Total Molybdenum (Mo)	ug/L	-	-	-	2.1	<1.0	<1.0	<1.0	1.0	B379392
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B379392
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B379392
Total Silver (Ag)	ug/L	-	-	1	<0.020	<0.020	<0.020	<0.020	0.020	B379392
Total Strontium (Sr)	ug/L	7000	-	-	128	53.0	53.7	54.4	1.0	B379392
Total Uranium (U)	ug/L	20	-	١	<0.10	<0.10	<0.10	<0.10	0.10	B379392
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B379392
Total Zinc (Zn)	ug/L	-	5000	١	24.0	<5.0	<5.0	<5.0	5.0	B379392
Total Calcium (Ca)	mg/L	-	-	-	24.6	11.2	10.9	10.8	0.050	B378371
Total Magnesium (Mg)	mg/L	-	-	-	1.55	0.701	0.723	0.713	0.050	B378371
Total Potassium (K)	mg/L	-	-	-	2.36	0.937	0.968	0.941	0.050	B378371
Total Sodium (Na)	mg/L	-	200	-	16.3	4.94	29.6	28.8	0.050	B378371
Total Sulphur (S)	mg/L	-	-	-	7.4	3.3	4.4	<3.0	3.0	B378371
No Fill N	o Evened									

No Fill Grey No Exceedance

Exceeds 1 criteria policy/level Exceeds both criteria/levels

Black Exceeds both criteria/level

RDL = Reportable Detection Limit

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Bureau Veritas Job #: C436894 Report Date: 2024/05/30

VILLAGE OF PEMBERTON
Client Project #: DRINKING WATER WITHOUT MICRO

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 2022.

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.

QUALITY ASSURANCE REPORT

VILLAGE OF PEMBERTON
Client Project #: DRINKING WATER WITHOUT MICRO

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	Slank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B378562	Total Dissolved Solids	2024/05/25	103	80 - 120	66	80 - 120	<10	mg/L	1.3	20
B378660	Nitrate plus Nitrite (N)	2024/05/24	NC	80 - 120	110	80 - 120	<0.020	mg/L	1.9	25
B378668	Turbidity	2024/05/24			103	80 - 120	<0.10	NTU	2.8	70
B378671	Nitrite (N)	2024/05/24	NC	80 - 120	108	80 - 120	<0.0050	mg/L	0.13	20
B378674	Chloride (Cl)	2024/05/24	NC	80 - 120	86	80 - 120	<1.0	mg/L	0.20	20
B378674	Sulphate (SO4)	2024/05/24	NC	80 - 120	26	80 - 120	<1.0	mg/L	3.4	20
B378693	Dissolved Fluoride (F)	2024/05/24	108	80 - 120	101	80 - 120	<0.050	mg/L	0:30	70
B378695	Alkalinity (PP as CaCO3)	2024/05/24					<1.0	mg/L	ON	20
B378695	Alkalinity (Total as CaCO3)	2024/05/24			96	80 - 120	<1.0	mg/L	0.92	70
B378695	Bicarbonate (HCO3)	2024/05/24					<1.0	mg/L	0.92	20
B378695	Carbonate (CO3)	2024/05/24					<1.0	mg/L	NC	70
B378695	Hydroxide (OH)	2024/05/24					<1.0	mg/L	NC	20
B378700	Hd	2024/05/24			100	97 - 103			99.0	N/A
B378701	Conductivity	2024/05/24			66	90 - 110	<2.0	uS/cm		
B378716	True Colour	2024/05/24			100	80 - 120	<2.0	Col. Unit	0.82	70
B379392	Total Aluminum (AI)	2024/05/25	86	80 - 120	101	80 - 120	<3.0	ng/L	1.1	20
B379392	Total Antimony (Sb)	2024/05/25	6	80 - 120	26	80 - 120	<0.50	ng/L	ON	20
B379392	Total Arsenic (As)	2024/05/25	101	80 - 120	102	80 - 120	<0.10	ng/L	0.32	20
B379392	Total Barium (Ba)	2024/05/25	95	80 - 120	95	80 - 120	<1.0	ng/L	0.73	20
B379392	Total Boron (B)	2024/05/25	119	80 - 120	121 (1)	80 - 120	<50	ng/L	3.3	20
B379392	Total Cadmium (Cd)	2024/05/25	6	80 - 120	86	80 - 120	<0.010	ng/L	NC	20
B379392	Total Chromium (Cr)	2024/05/25	100	80 - 120	104	80 - 120	<1.0	ng/L	4.9	20
B379392	Total Cobalt (Co)	2024/05/25	100	80 - 120	105	80 - 120	<0.20	ng/L	NC	20
B379392	Total Copper (Cu)	2024/05/25	66	80 - 120	104	80 - 120	<0.20	ng/L	0.97	20
B379392	Total Iron (Fe)	2024/05/25	66	80 - 120	106	80 - 120	<5.0	ng/L	ON	70
B379392	Total Lead (Pb)	2024/05/25	93	80 - 120	96	80 - 120	<0.20	ng/L	NC	20
B379392	Total Manganese (Mn)	2024/05/25	6	80 - 120	101	80 - 120	<1.0	ng/L	1.4	20
B379392	Total Molybdenum (Mo)	2024/05/25	100	80 - 120	103	80 - 120	<1.0	ng/L	NC	70
B379392	Total Nickel (Ni)	2024/05/25	100	80 - 120	106	80 - 120	<1.0	ng/L	NC	20
B379392	Total Selenium (Se)	2024/05/25	106	80 - 120	108	80 - 120	<0.10	ng/L	NC	20
B379392	Total Silver (Ag)	2024/05/25	86	80 - 120	100	80 - 120	<0.020	ng/L	NC	20
B379392	Total Strontium (Sr)	2024/05/25	NC	80 - 120	93	80 - 120	<1.0	ng/L	1.1	20
B379392	Total Uranium (U)	2024/05/25	86	80 - 120	100	80 - 120	<0.10	ng/L	NC	20

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Bureau Veritas Burnaby: 4606 Canada Way VSG 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

QUALITY ASSURANCE REPORT(CONT'D)

VILLAGE OF PEMBERTON
Client Project #: DRINKING WATER WITHOUT MICRO

			Matrix Snike	Snike	Sniked Blank	Slank	Method Blank	lank	RPD	
				- June	Daniel Company	-	8011011	1		
QC Batch	QC Batch Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B379392	Total Vanadium (V)	2024/05/25	100	80 - 120	102	80 - 120	<5.0	ng/L	NC	20
B379392	B379392 Total Zinc (Zn)	2024/05/25	86	80 - 120	100	80 - 120	<5.0	ng/L	NC	20
B380828	B380828 Total Dissolved Solids	2024/05/28	100	80 - 120	95	80 - 120	<10	mg/L	6.9	70
B381992	B381992 Total Mercury (Hg)	2024/05/28	104	80 - 120	26	80 - 120	<0.0019	ng/L	NC	20
	-1-1-1-									

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.

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).



Your C.O.C. #: C#727535-01-01

Attention: Reece Clark

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

Report Date: 2024/07/18

Report #: R3529312 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452452 Received: 2024/07/12, 11:33

Sample Matrix: Drinking Water # Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	4	N/A	2024/07/12	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/07/15	BBY6SOP-00011 /	SM24-4500-CI/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A	2024/07/13	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	4	N/A	2024/07/12	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/07/15	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/07/16	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/07/17	2024/07/17	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/07/16	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/07/16	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A	2024/07/12	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/07/12	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/07/15	BBY WI-00033	Auto Calc
pH @25°C (2)	4	N/A	2024/07/12	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/07/17	2024/07/18	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/07/12	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Your C.O.C. #: C#727535-01-01

Attention: Reece Clark

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

Report Date: 2024/07/18

Report #: R3529312 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452452 Received: 2024/07/12, 11:33

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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas

18 Jul 2024 17:03:26

Please direct all questions regarding this Certificate of Analysis to: Aldean Alicando, Customer Solutions Representative

Email: Aldean.ALICANDO@bureauveritas.com

Phone# (604)734-7276 Ext:7062605

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.

For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon

Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CRC709	CRC710	CRC711		
Samulius Data					2024/07/11	2024/07/11	2024/07/11		
Sampling Date					08:00	08:15	08:30		
COC Number					C#727535-01-01	C#727535-01-01	C#727535-01-01		
	UNITS	MAC	AO	OG	WELL#2	WELL #3	FARM RD	RDL	QC Batch
ANIONS									<u> </u>
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	B437331
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	68.6	24.2	25.5	0.50	B436370
Nitrate (N)	mg/L	10	-	-	0.316	0.133	0.140	0.020	B436496
Misc. Inorganics	•		•						
Conductivity	uS/cm	-	-	-	250	83	180	2.0	B437278
рН	pН	-	-	7.0:10.5	6.51	6.35	7.27	N/A	B437273
Total Dissolved Solids	mg/L	-	500	-	140	50	92	10	B442200
Anions			•						
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B437276
Alkalinity (Total as CaCO3)	mg/L	-	-	-	35	18	60	1.0	B437276
Bicarbonate (HCO3)	mg/L	-	-	-	43	22	73	1.0	B437276
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B437276
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B439215
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B437276
Chloride (Cl)	mg/L	-	250	-	37	14	7.8	1.0	B437234
Sulphate (SO4)	mg/L	-	500	-	20	8.6	9.0	1.0	B437234
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	<2.0	<2.0	<2.0	2.0	B437791
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.316	0.133	0.140	0.020	B437231
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.20	0.12	1.7	0.10	B436429
No Fill	No Exceeda	nce							
Grey	Exceeds 1 cr	iteria policy/	level (
Black	Exceeds bot	h criteria/lev	els						
RDL = Reportable Detection		-							
N/A = Not Applicable									

N/A = Not Applicable



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CRC712		
Carrallia a Data					2024/07/11		
Sampling Date					08:45		
COC Number					C#727535-01-01		
	UNITS	MAC	AO	og	RIDGE	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	B437331
Calculated Parameters	•						
Total Hardness (CaCO3)	mg/L	-	-	-	25.5	0.50	B436370
Nitrate (N)	mg/L	10	-	-	0.147	0.020	B436496
Misc. Inorganics	•		•			•	
Conductivity	uS/cm	-	-	-	180	2.0	B437271
pН	pН	-	-	7.0:10.5	7.11	N/A	B437270
Total Dissolved Solids	mg/L	-	500	-	86	10	B442200
Anions							
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	B437266
Alkalinity (Total as CaCO3)	mg/L	-	-	-	61	1.0	B437266
Bicarbonate (HCO3)	mg/L	-	-	-	75	1.0	B437266
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	B437266
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	B439215
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	B437266
Chloride (Cl)	mg/L		250	-	8.3	1.0	B437234
Sulphate (SO4)	mg/L	-	500	-	9.0	1.0	B437234
MISCELLANEOUS							
True Colour	Col. Unit	-	15	-	2.4	2.0	B437791
Nutrients							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.147	0.020	B437231
Physical Properties							
Turbidity	NTU	see remark	see remark	see remark	0.28	0.10	B436429
No Fill No Exc	eedance						
Grey Exceed	s 1 criteria	policy/level					
-	s both crite	ria/levels					
RDL = Reportable Detection		-					
N/A = Not Applicable							



VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID				CRC709	CRC710	CRC711		CRC712		
Sampling Date				2024/07/11 08:00	2024/07/11 08:15	2024/07/11 08:30		2024/07/11 08:45		
COC Number				C#727535-01-01	C#727535-01-01	C#727535-01-01		C#727535-01-01		
	UN	NITS	MAC	WELL#2	WELL #3	FARM RD	QC Batch	RIDGE	RDL	QC Batch
Elements										
Total Mercury (Hg)	uį	ıg/L	1	<0.0019	<0.0019	<0.0019	B442184	<0.0019	0.0019	B442468
No Fill	No Exc	ceeda	ance							
Grey	Exceed	ds 1 c	riteria	policy/level						
Black	Exceed	ds bo	th crit	eria/levels						
RDL = Reportable Detect	ion Limit	it								



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CRC709	CRC710	CRC711	CRC712		
Sampling Date					2024/07/11	2024/07/11	2024/07/11	2024/07/11		
Sumpling Date					08:00	08:15	08:30	08:45		
COC Number					C#727535-01-01	C#727535-01-01	C#727535-01-01	C#727535-01-01		
	UNITS	MAC	AO	OG	WELL#2	WELL #3	FARM RD	RIDGE	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2900	-	100	3.2	7.4	113	5.1	3.0	B438786
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B438786
Total Arsenic (As)	ug/L	10	-	•	<0.10	<0.10	<0.10	<0.10	0.10	B438786
Total Barium (Ba)	ug/L	2000	-	١	45.2	15.6	25.6	16.0	1.0	B438786
Total Boron (B)	ug/L	5000	-	1	118	<50	<50	<50	50	B438786
Total Cadmium (Cd)	ug/L	7	-	1	0.012	0.038	0.546	0.020	0.010	B438786
Total Chromium (Cr)	ug/L	50	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B438786
Total Cobalt (Co)	ug/L	-	-	١	0.23	<0.20	0.34	<0.20	0.20	B438786
Total Copper (Cu)	ug/L	2000	1000	١	2.77	1.78	13.5	3.39	0.20	B438786
Total Iron (Fe)	ug/L	-	300	1	67.7	10.3	144	22.0	5.0	B438786
Total Lead (Pb)	ug/L	5	-	1	0.23	0.46	<0.20	<0.20	0.20	B438786
Total Manganese (Mn)	ug/L	120	20	-	96.8	26.0	188	16.6	1.0	B438786
Total Molybdenum (Mo)	ug/L	-	-	-	2.3	<1.0	<1.0	<1.0	1.0	B438786
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B438786
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B438786
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	<0.020	<0.020	0.020	B438786
Total Strontium (Sr)	ug/L	7000	-	-	144	47.8	52.6	51.2	1.0	B438786
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B438786
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B438786
Total Zinc (Zn)	ug/L	-	5000	-	26.5	<5.0	<5.0	6.8	5.0	B438786
Total Calcium (Ca)	mg/L	-	-	-	24.8	8.85	9.33	9.27	0.050	B436495
Total Magnesium (Mg)	mg/L	-	-	-	1.62	0.506	0.546	0.565	0.050	B436495
Total Potassium (K)	mg/L	-	-	-	2.51	0.871	0.931	0.921	0.050	B436495
Total Sodium (Na)	mg/L	-	200	-	14.2	3.86	25.1	25.0	0.050	B436495
Total Sulphur (S)	mg/L	-	-	-	6.3	<3.0	3.1	3.1	3.0	B436495

No Fill Grey No Exceedance

Exceeds 1 criteria policy/level Exceeds both criteria/levels

Black Exceeds both criteria/level

RDL = Reportable Detection Limit



VILLAGE OF PEMBERTON

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 2022.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	SLINO	Value (%)	QC Limits
B436429	Turbidity	2024/07/12			101	80 - 120	<0.10	NLN	6.6	20
B437231	Nitrate plus Nitrite (N)	2024/07/12	114	80 - 120	107	80 - 120	<0.020	T/Bm	1.8	25
B437234	Chloride (CI)	2024/07/15	NC	80 - 120	100	80 - 120	<1.0	T/Bm	2.1	20
B437234	Sulphate (SO4)	2024/07/15	ON	80 - 120	105	80 - 120	<1.0	T/Bm	3.1	20
B437266	Alkalinity (PP as CaCO3)	2024/07/12					<1.0	mg/L	NC	20
B437266	Alkalinity (Total as CaCO3)	2024/07/12			106	80 - 120	<1.0	T/Bm	0:30	20
B437266	Bicarbonate (HCO3)	2024/07/12					<1.0	T/Bm	0:30	20
B437266	Carbonate (CO3)	2024/07/12					<1.0	T/Bm	NC	20
B437266	Hydroxide (OH)	2024/07/12					<1.0	T/Bm	NC	20
B437270	рН	2024/07/12			100	97 - 103			0.095	N/A
B437271	Conductivity	2024/07/12			100	90 - 110	<2.0	mɔ/sn	0.28	10
B437273	Hd	2024/07/12			100	97 - 103			9.0	N/A
B437276	Alkalinity (PP as CaCO3)	2024/07/12					<1.0	mg/L	NC	20
B437276	Alkalinity (Total as CaCO3)	2024/07/12			103	80 - 120	<1.0	T/BW	0.33	20
B437276	Bicarbonate (HCO3)	2024/07/12					<1.0	T/Bm	0.33	20
B437276	Carbonate (CO3)	2024/07/12					<1.0	mg/L	NC	20
B437276	Hydroxide (OH)	2024/07/12					<1.0	mg/L	NC	20
B437278	Conductivity	2024/07/12			100	90 - 110	<2.0	mɔ/sn	0.42	10
B437331	Nitrite (N)	2024/07/12	112	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
B437791	True Colour	2024/07/13			97	80 - 120	<2.0	Col. Unit	10	20
B438786	Total Aluminum (AI)	2024/07/16	86	80 - 120	66	80 - 120	<3.0	ng/L	3.2	20
B438786	Total Antimony (Sb)	2024/07/16	101	80 - 120	102	80 - 120	<0.50	ng/L	NC	20
B438786	Total Arsenic (As)	2024/07/16	102	80 - 120	101	80 - 120	<0.10	ng/L	NC	20
B438786	Total Barium (Ba)	2024/07/16	NC	80 - 120	100	80 - 120	<1.0	ng/L	1.1	20
B438786	Total Boron (B)	2024/07/16	111	80 - 120	108	80 - 120	<50	ng/L	3.7	20
B438786	Total Cadmium (Cd)	2024/07/16	98	80 - 120	102	80 - 120	<0.010	ng/L	NC	20
B438786	Total Chromium (Cr)	2024/07/16	96	80 - 120	66	80 - 120	<1.0	ng/L	NC	20
B438786	Total Cobalt (Co)	2024/07/16	92	80 - 120	95	80 - 120	<0.20	ng/L	2.0	20
B438786	Total Copper (Cu)	2024/07/16	93	80 - 120	98	80 - 120	<0.20	ng/L	0.95	20
B438786	Total Iron (Fe)	2024/07/16	97	80 - 120	101	80 - 120	<5.0	ng/L	7.4	20
B438786	Total Lead (Pb)	2024/07/16	97	80 - 120	100	80 - 120	<0.20	ng/L	3.8	20
B438786	Total Manganese (Mn)	2024/07/16	96	80 - 120	100	80 - 120	<1.0	ng/L	0.25	20
B438786	Total Molybdenum (Mo)	2024/07/16	108	80 - 120	105	80 - 120	<1.0	ng/L	NC	20
B438786	Total Nickel (Ni)	2024/07/16	64	80 - 120	86	80 - 120	<1.0	7/8n	NC	20
				210						

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

Bureau Veritas Job #: C452452 Report Date: 2024/07/18

		_	Anthin Caile	Caike	Jude Doub	Jucio	Jacia bodtoh	Jac	000	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	OC Limits	Value	UNITS	Value (%)	QC Limits
B438786	Total Selenium (Se)	2024/07/16	86	80 - 120	102	80 - 120	<0.10	ng/L	NC	20
B438786	Total Silver (Ag)	2024/07/16	66	80 - 120	103	80 - 120	<0.020	ng/L	NC	20
B438786	Total Strontium (Sr)	2024/07/16	NC	80 - 120	101	80 - 120	<1.0	ng/L	0.29	20
B438786	Total Uranium (U)	2024/07/16	105	80 - 120	103	80 - 120	<0.10	ng/L	NC	20
B438786	Total Vanadium (V)	2024/07/16	100	80 - 120	100	80 - 120	<5.0	ng/L	NC	20
B438786	Total Zinc (Zn)	2024/07/16	94	80 - 120	101	80 - 120	<5.0	ng/L	1.1	20
B439215	Dissolved Fluoride (F)	2024/07/15	95	80 - 120	100	80 - 120	<0.050	mg/L	NC	20
B442184	Total Mercury (Hg)	2024/07/17	100	80 - 120	97	80 - 120	<0.0019	ng/L	3.0	20
B442200	Total Dissolved Solids	2024/07/18	100	80 - 120	94	80 - 120	<10	mg/L	06:0	20
B442468	Total Mercury (Hg)	2024/07/17	97	80 - 120	97	80 - 120	<0.0019	ng/L	NC	20
N/A = Not Applicable	ulicable									

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.

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).

Page of Chain Of Custody Record	Laboratory Use Only	Bureau Verius Job # Bottle Order #:		Chain Of Custody Barrows	The state of the s	C#727636501-01	Turnaround Time (TAT) Required:	Please provide advance notice for rush projects	regular (standard) TAT: (will be applied if Rush TAT is not specified):	Standard TAT = 5-1 Working days for most teats. Discuss note: Chandrad TAT for cathellin fracts	There into Southful In United States and as built and University are > 0 days - contact your Project Manager for delating.	Job Specific Rush TAT (if applies to entire submission) 1 DAY 2 Day 5 Day Dake Required:	Rush Confirmation Number:	# of Bottles Commonts					MVAN-2024-07-732	経験回					Lib Use brily	Time Sensitive Transcrature 800 cm December 2 Outlook Seal Intact on Cooler?
	Project Information	C31790	TO LOCAL DE				EASE 3E SPECIFIC)		_																pb) Time # jars used and	2024/07/12/10-23 morsubmused
UUD		Ouolaliona	P.O.#	Project #	Project Name	Sampled By	ANALYSIS REQUESTED (PLEASE 3E SPECIFIC)																		Date: (YY/MMIDD)	2024/07/
Banau Vertias ABOR Camada Way, Burnaby, British Columbia Canada VSG 1KS Tek(604) 734 7276 Toll-free,800-563-6086 Fax(604) 731 2388 www.bvna.com	Report Information		Sim		. 246 Fev	Ē			(Fiftere		Meta	>	7	7	7							(Sig	Mada somora
Tel:(634) 734 7276 Toll-free:80	Report		Reece Clark, Clare Sim		(604) 894-6135 Ext. 246	rclark@pemberton.	Special instructions	of against	7 4)			REAU VERITAS	Time Sampled Natrix	8:00AM	9:15 AM	8:30AM	8:45.BM								
ibia Canada VSG 1K5 1		Company Name	Contact Name	Address	Phone		Special in	please plo		FO & MI			TIL DELIVERY TO BU	Dafe Sampled	34/61/11	2401/1	3407/4	24/67/11							6	MUDDE 111
Bumaby, British Colum		NO	-		(604) 894-6855			Q				-	ME OF SAMPLING UN		#2	+3	7	U							П	2407/11
4606 Canada Way, I	INVOICE TO:	#99020 VILLAGE OF PEMBERTON	Accounts Payable	SC VON 2LO	Ē	le@pemberton.ca					ļ		SAMPLES MUST BE KRET COOL (< 100) FROM TAKE OF SAMPLING UNTIL DELIVERY TO BURE.	Sample (Location) Identification	Well #	Well #3	Form 2d	RIDGE							sture/Print)	reece clark
DEUR EAU		Company Name #99026 VIL			1 -		Regulatory Criteries	CSR	COME	BC Water Quality	Other		SAMPLES MUST BE KEPT	Sample Barcode Label											RELINQUISHED BY: (Signature/Print)	3
2 >		Comps	Contac	Address	Phone	Email	Reg			>						64	75	4	ro.	10	1	100	on	10	1	

Page 10 of 10



Your C.O.C. #: C#731934-01-01

Attention: Reece Clark

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

Report Date: 2024/08/08

Report #: R3538897 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C459178 Received: 2024/08/02, 12:20

Sample Matrix: Drinking Water # Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	4	N/A	2024/08/02	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2024/08/06	BBY6SOP-00011 /	SM24-4500-Cl/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A	2024/08/02	BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	4	N/A	2024/08/02	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/08/06	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	4	N/A	2024/08/07	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/08/06	2024/08/06	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2024/08/07	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2024/08/06	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A	2024/08/03	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2024/08/03	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2024/08/03	BBY WI-00033	Auto Calc
pH @25°C (2)	4	N/A	2024/08/02	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/08/06	2024/08/07	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/08/03	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

APPENDIX II - 2024 Annual Chemical Analysis of Drinking Water



Your C.O.C. #: C#731934-01-01

Attention: Reece Clark

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

Report Date: 2024/08/08

Report #: R3538897 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C459178 Received: 2024/08/02, 12:20

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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas

08 Aug 2024 11:32:07

Please direct all questions regarding this Certificate of Analysis to: Aldean Alicando, Customer Solutions Representative

Email: Aldean.ALICANDO@bureauveritas.com

Phone# (604)734-7276 Ext:7062605

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, Senior Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CSQ334	CSQ335	CSQ336		
Sampling Date					2024/08/01	2024/08/01	2024/08/01		
Sampling Date					08:00	08:15	08:30		
COC Number					C#731934-01-01	C#731934-01-01	C#731934-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	RIDGE	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	B465715
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	69.7	33.4	37.8	0.50	B463815
Nitrate (N)	mg/L	10	-	-	0.262	0.180	0.193	0.020	B464536
Misc. Inorganics						•	•		
Conductivity	uS/cm	-	-	-	250	110	210	2.0	B465335
рН	pН	-	-	7.0:10.5	6.97	6.25	6.74	N/A	B465332
Total Dissolved Solids	mg/L	-	500	-	160	66	120	10	B467010
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	B465336
Alkalinity (Total as CaCO3)	mg/L	-	-	-	36	21	65	1.0	B465336
Bicarbonate (HCO3)	mg/L	-	-	-	44	26	79	1.0	B465336
Carbonate (CO3)	mg/L	ı	-	-	<1.0	<1.0	<1.0	1.0	B465336
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	<0.050	0.050	B467184
Hydroxide (OH)	mg/L	ı	-	-	<1.0	<1.0	<1.0	1.0	B465336
Chloride (Cl)	mg/L	ı	250	-	38	12	17	1.0	B467190
Sulphate (SO4)	mg/L	ı	500	-	19	9.7	11	1.0	B467190
MISCELLANEOUS									
True Colour	Col. Unit	ı	15	-	<2.0	<2.0	<2.0	2.0	B465275
Nutrients									
Nitrate plus Nitrite (N)	mg/L	1	-	-	0.262	0.180	0.193	0.020	B465711
Physical Properties							•		
Turbidity	NTU	see remark	see remark	see remark	0.15	0.11	0.21	0.10	B465712
No Fill N	lo Exceedar	nce			-	-	•		-
Grey	xceeds 1 cr	iteria policy/	level						
-	xceeds botl	h criteria/lev	els						
RDL = Reportable Detection									
N/A = Not Applicable									

N/A = Not Applicable



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CSQ337		
Sampling Date					2024/08/01		
Sampling Date					08:45		
COC Number					C#731934-01-01		
	UNITS	MAC	AO	OG	FARM RD	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	B465715
Calculated Parameters	·						
Total Hardness (CaCO3)	mg/L	-	-	-	38.6	0.50	B463815
Nitrate (N)	mg/L	10	-	-	0.189	0.020	B464536
Misc. Inorganics	-						
Conductivity	uS/cm	-	-	-	210	2.0	B465335
рН	pН	-	-	7.0:10.5	6.79	N/A	B465332
Total Dissolved Solids	mg/L	-	500	-	110	10	B467010
Anions							
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	B465336
Alkalinity (Total as CaCO3	3) mg/L	-	-	-	66	1.0	B465336
Bicarbonate (HCO3)	mg/L	-	-	-	81	1.0	B465336
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	B465336
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	B467184
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	B465336
Chloride (Cl)	mg/L	-	250	-	17	1.0	B467190
Sulphate (SO4)	mg/L	-	500	-	11	1.0	B467190
MISCELLANEOUS						_	
True Colour	Col. Unit	-	15	-	<2.0	2.0	B465275
Nutrients							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.189	0.020	B465711
Physical Properties							
Turbidity	NTU	see remark	see remark	see remark	0.12	0.10	B465712
No Fill No E	Exceedance						1
Grey Exce	eds 1 criteria ¡	policy/level					- 1
Black Exce	eeds both crite	ria/levels					
RDL = Reportable Detecti	on Limit						
N/A = Not Applicable							



VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID				CSQ334	CSQ335	CSQ336	CSQ337		
Sampling Date				2024/08/01 08:00	2024/08/01 08:15	2024/08/01 08:30	2024/08/01 08:45		
COC Number				C#731934-01-01	C#731934-01-01	C#731934-01-01	C#731934-01-01		
		UNITS	MAC	WELL #2	WELL #3	RIDGE	FARM RD	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	B467319
No Fill	No E	xceedar	ice						
Grey	Exce	eds 1 cr	iteria p	oolicy/level					
Black	Exce	eds botl	n criter	ria/levels					
RDL = Reportable Dete	ction Li	imit							



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Bureau Veritas ID					CSQ334	CSQ335	CSQ336	CSQ337		
Sampling Date					2024/08/01	2024/08/01	2024/08/01	2024/08/01		
	_				08:00	08:15	08:30	08:45		
COC Number	_				C#731934-01-01	C#731934-01-01	C#731934-01-01	C#731934-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	RIDGE	FARM RD	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2900	-	100	3.7	11.4	8.6	5.5	3.0	B466857
Total Antimony (Sb)	ug/L	6	-	1	<0.50	<0.50	<0.50	<0.50	0.50	B466857
Total Arsenic (As)	ug/L	10	-	ı	<0.10	<0.10	<0.10	<0.10	0.10	B466857
Total Barium (Ba)	ug/L	2000	-	ı	46.1	20.9	23.8	24.4	1.0	B466857
Total Boron (B)	ug/L	5000	-	1	139	<50	51	50	50	B466857
Total Cadmium (Cd)	ug/L	7	-	1	0.014	0.031	0.033	0.016	0.010	B466857
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	<1.0	1.0	B466857
Total Cobalt (Co)	ug/L	-	-	-	0.21	<0.20	<0.20	<0.20	0.20	B466857
Total Copper (Cu)	ug/L	2000	1000	1	2.32	1.83	3.57	9.57	0.20	B466857
Total Iron (Fe)	ug/L	-	300	1	52.0	26.2	33.6	27.2	5.0	B466857
Total Lead (Pb)	ug/L	5	-	-	0.28	0.34	<0.20	<0.20	0.20	B466857
Total Manganese (Mn)	ug/L	120	20	-	81.3	55.8	22.2	20.4	1.0	B466857
Total Molybdenum (Mo)	ug/L	-	-	-	2.4	<1.0	<1.0	<1.0	1.0	B466857
Total Nickel (Ni)	ug/L	-	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B466857
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B466857
Total Silver (Ag)	ug/L	-	-	1	<0.020	<0.020	<0.020	<0.020	0.020	B466857
Total Strontium (Sr)	ug/L	7000	-	-	154	62.2	71.8	73.8	1.0	B466857
Total Uranium (U)	ug/L	20	-	1	<0.10	<0.10	<0.10	<0.10	0.10	B466857
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	<5.0	5.0	B466857
Total Zinc (Zn)	ug/L	-	5000	-	37.5	5.4	6.8	<5.0	5.0	B466857
Total Calcium (Ca)	mg/L	-	-	1	25.2	12.1	13.7	14.0	0.050	B464803
Total Magnesium (Mg)	mg/L	-	-	ı	1.66	0.758	0.852	0.871	0.050	B464803
Total Potassium (K)	mg/L	-	-	-	2.56	1.12	1.28	1.32	0.050	B464803
Total Sodium (Na)	mg/L	-	200	1	14.9	5.27	26.3	26.1	0.050	B464803
Total Sulphur (S)	mg/L	-	-	-	6.2	3.4	3.5	3.7	3.0	B464803
	•					•				

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit



Bureau Veritas Job #: C459178 Report Date: 2024/08/08

VILLAGE OF PEMBERTON

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 2022.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	,
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B465275	True Colour	2024/08/02			104	80 - 120	<2.0	Col. Unit	NC	20
B465332	Hd	2024/08/02			100	97 - 103			1.2	N/A
B465335	Conductivity	2024/08/02			102	90 - 110	<2.0	ms/sn	0.35	10
B465336	Alkalinity (PP as CaCO3)	2024/08/02					<1.0	T/Bm	NC	20
B465336	Alkalinity (Total as CaCO3)	2024/08/02			95	80 - 120	<1.0	mg/L	2.1	20
B465336	Bicarbonate (HCO3)	2024/08/02					<1.0	mg/L		
B465336	Carbonate (CO3)	2024/08/02					<1.0	mg/L		
B465336	Hydroxide (OH)	2024/08/02					<1.0	T/Bm		
B465711	Nitrate plus Nitrite (N)	2024/08/03	116	80 - 120	110	80 - 120	<0.020	T/Bm	20	25
B465712	Turbidity	2024/08/03			102	80 - 120	<0.10	NTU	3.6	20
B465715	Nitrite (N)	2024/08/03	105	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
B466857	Total Aluminum (AI)	2024/08/06	100	80 - 120	103	80 - 120	<3.0	1/8n	ON	20
B466857	Total Antimony (Sb)	2024/08/06	104	80 - 120	102	80 - 120	<0.50	ng/L	NC	20
B466857	Total Arsenic (As)	2024/08/06	101	80 - 120	103	80 - 120	<0.10	1/8n	0.38	20
B466857	Total Barium (Ba)	2024/08/06	66	80 - 120	97	80 - 120	<1.0	1/8n	0.82	20
B466857	Total Boron (B)	2024/08/06	100	80 - 120	102	80 - 120	<50	ng/L	0.11	20
B466857	Total Cadmium (Cd)	2024/08/06	101	80 - 120	101	80 - 120	<0.010	ng/L	NC	20
B466857	Total Chromium (Cr)	2024/08/06	86	80 - 120	98	80 - 120	<1.0	ng/L	NC	20
B466857	Total Cobalt (Co)	2024/08/06	86	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
B466857	Total Copper (Cu)	2024/08/06	92	80 - 120	96	80 - 120	<0.20	ug/L	2.7	20
B466857	Total Iron (Fe)	2024/08/06	102	80 - 120	99	80 - 120	<5.0	ng/L	NC	20
B466857	Total Lead (Pb)	2024/08/06	66	80 - 120	98	80 - 120	<0.20	ug/L	1.5	20
B466857	Total Manganese (Mn)	2024/08/06	95	80 - 120	98	80 - 120	<1.0	ug/L	0.50	20
B466857	Total Molybdenum (Mo)	2024/08/06	111	80 - 120	105	80 - 120	<1.0	ng/L	0.82	20
B466857	Total Nickel (Ni)	2024/08/06	96	80 - 120	99	80 - 120	<1.0	ng/L	NC	20
B466857	Total Selenium (Se)	2024/08/06	102	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
B466857	Total Silver (Ag)	2024/08/06	100	80 - 120	99	80 - 120	<0.020	ng/L	NC	20
B466857	Total Strontium (Sr)	2024/08/06	NC	80 - 120	94	80 - 120	<1.0	ug/L	0.43	20
B466857	Total Uranium (U)	2024/08/06	102	80 - 120	100	80 - 120	<0.10	ng/L	0.10	20
B466857	Total Vanadium (V)	2024/08/06	66	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
B466857	Total Zinc (Zn)	2024/08/06	86	80 - 120	102	80 - 120	<5.0	ng/L	0.89	20
B467010	Total Dissolved Solids	2024/08/07	66	80 - 120	99	80 - 120	<10	mg/L	3.9	20
B467184	Dissolved Fluoride (F)	2024/08/06	95	80 - 120	100	80 - 120	<0.050	mg/L	NC	20
B467190	Chloride (CI)	2024/08/06	103	80 - 120	101	80 - 120	<1.0	mg/L	7.3	20
				210						

Page 8 of 10

Bureau Veritas Burnaby: 4606 Canada Way VSG 1KS Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery QC Limits	QC Limits	Value	UNITS	Value (%)	QC Limits
B467190	Sulphate (SO4)	2024/08/06	100	80 - 120	100	80 - 120	<1.0	mg/L		
B467319	Total Mercury (Hg)	2024/08/06	66	80 - 120	104	80 - 120	<0.0019	ng/L	NC	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.

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).

	e Only	Bottle Order #:		237024	Project Manager	Although All	Ardean Allcandd	Required:	arrush projects	L		BOD and Dioxins/Furans are >	piseioni	Date Required:		(cad (ab for #)	agu.						,]	MVAN-2024-08-128	I			Ves No	Wilder Bureau Veclas Yollow: Client
Chain Of Custody Record	Laboratory Use Only	Burgay Veritas Job #			Chain Of Gustody Record		C#731934-01-01	Tumaround Time (TAT) Required:	Please provide advance notice for rush projects	Regular (Standard) TAT:	(win de appried in natar 1947 is not aprentised). Standard TAT = 5-7 Working days for most tests	Please note. Standard TAT for contain lestis such as BOD and Dioxins/Furans are $>$ 5 days - contact your Project Managei for details.	Job Specific Rush TAT (if applies to entire submission)	1 DAY Z Day 3 Day Date R		}	a of Boilder							MVAN-2	(C) (C) (C)		Jso Only		
0	mation									Reg	Star	Phea	100		Rea		9		-								# Jars used and not submitted		CKNOWLEDGMENT AND ACCEPTA
	Project Information	C31750						BE SPECIFIC)		_	_		_	_		_			,								1	1647	Y DOCUMENT IS A
wo			- dollalon -	# .0.4	Project Warner		Sampled By	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		_	_	_		_	_												왕.	25/20/10/10/	OF THIS CHAIN OF CUSTOD
Bureau Veritas Jobs Canada Weey, Burnaby, British Cekunbia Cenada VSCI 1/6 Tol-(BNA) 734 7276 Tol-I-free BND-563-6256 Fax (BDA) 731 2395 www.bvra.com	rmation					1	CSIM @PENDERSON.CA.	ATMIN			-	қаде	_		_	ıkini	Drin	2	7	7	7						RECEIVED BY: (Signature/Print)		WALES OFFERMER ARRENDED TO INVINTING, WORK SUBMITTED ON THIS CHAIN OF CUSTOON'S SUBJECT TO BUREAU VIRIABLES STANDARD TERMS AND CONDITIONS. SIGNAND OF CUSTOON OCCURRENCE CLUSTOON DOOLNET IS ACROMATED ON THIS CHAIN OF CUSTOON SOCIAL TERMS WITH MEETING OF CONTINUES STANDARD OF THIS CHAIN OF CUSTOON DOOLNET IS ACROMATED ARRENT AND ACCEPTANCE OF CHAIN TERMS WITH MEETING OF CONTINUES STANDARD OF THIS CHAIN OF CUSTOON SOCIAL TERMS WITH MEETING OF CONTINUES STANDARD OF THIS CHAIN OF CUSTOON SOCIAL TERMS WITH MEETING OF CHAIN TERMS WITH MEETING OF CONTINUES STANDARD OF THIS CHAIN OF CUSTOON SOCIAL TERMS WITH MEETING OF CHAIN TERMS WITH MEETING OF CONTINUES STANDARD OF THIS CHAIN OF CUSTOON SOCIAL TERMS WITH MEETING OF CHAIN TERMS WITH MEETING W
604) 734 7276 Toll-free: 800-5	Report Information		Reece Clark			(604) 353-5845	rclark@pemberton.ca	tructions	of Against		,					AU VERITAS	Time Sampled Matrix	Biocopy	6.15Am	30Am	8:45 Am						V 6.4.5	DKIAN MA	O BUREAU VERITAS'S STANDA
da VSG 1/6 Tel:		Common show	Contract Money	Address		Phone	Email	Special Instructions	Please Prot	AN & MAC						VERY TO BURE	Date Sampled Til	340361 8	24 08/01 6	24/05/01 4:300	24/08/01 8	_	-	-		-	Time	200	DY IS SUBJECT T
by, British Columbia Como						(604) 894-6855			Plea	3	2					SAMPLING UNTIL DEL				14/	24%					_	Date: (YYMM/DD)	CAROLO	ON THIS CHAIN OF GUSTO
Bureau Veritas 4608 Canada Way, Bumil	INVOICE TO:	#89020 VILLAGE OF PEMBERTON	ble	Prospect St			accountspayable@pemberton.ca						Į			SUMPLIS MUST BEIKEPT COOL (< 10°C) FROW TIME OF SAMPLING UNTIL DELIVERY TO BUREAU YER!	Sample (Location) identification	Well #2	Well #3	RIDGE	Farm Rd						WPrint)	VIII CLOUR	WRITHED WORK SUBRITTED
		Companyane #89020 VILLA		-			Emai accountspayabl	Regulatory Ottenia:	Calk	COME		Pu vriest Cushing	all of the second			SAMPLES MUST BE KEPT CO	Sample Barcodo Label										HELMQUISHED BY: (Signatum/Print)	3	ISS OTHERWISE AGREED TO IN



Your C.O.C. #: C#736102-01-01

Attention: Reece Clark

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

Report Date: 2024/10/22

Report #: R3575704 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C482688 Received: 2024/10/15, 08:43

Sample Matrix: Drinking Water # Samples Received: 4

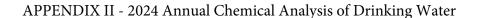
Date Date **Quantity Extracted Analyses** Analyzed **Laboratory Method Analytical Method** Alkalinity @25C (pp, total), CO3,HCO3,OH 4 N/A 2024/10/17 BBY6SOP-00026 SM 24 2320 B m Chloride/Sulphate by Auto Colourimetry 2024/10/17 BBY6SOP-00011 / SM24-4500-CI/SO4-E m 4 N/A BBY6SOP-00017 Color (True) by Automated Analyzer 4 N/A 2024/10/16 BBY6SOP-00057 SM 24 2120 C m Conductivity @25C 4 N/A 2024/10/17 BBY6SOP-00026 SM 24 2510 B m Fluoride 4 N/A 2024/10/17 BBY6SOP-00037 SM 24 4500-F C m Hardness Total (calculated as CaCO3) (1) N/A 2024/10/22 BBY WI-00033 Auto Calc 2024/10/18 2024/10/18 BBY7SOP-00032 Mercury (Total) by CV 4 BCMOE LM 2023 C1.1.3 4 Na, K, Ca, Mg, S by CRC ICPMS (total) N/A 2024/10/22 BBY WI-00033 Auto Calc Elements by CRC ICPMS (total) 4 N/A 2024/10/21 BBY7SOP-00003 / EPA 6020b R2 m BBY7SOP-00002 Nitrate + Nitrite (N) 4 N/A 2024/10/17 BBY6SOP-00010 SM 24 4500-NO3- H m Nitrite (N) Regular Level Water 4 N/A 2024/10/17 BBY6SOP-00010 SM 24 4500-NO2- m Nitrogen - Nitrate (as N) 4 N/A 2024/10/18 BBY WI-00033 Auto Calc pH @25°C (2) 4 N/A 2024/10/17 BBY6SOP-00026 SM 24 4500-H+ B m Total Dissolved Solids (Filt. Residue) 4 2024/10/16 2024/10/17 BBY6SOP-00033 SM 24 2540 C m Turbidity 4 N/A 2024/10/15 BBY6SOP-00027 SM 24 2130 B m

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.





Your C.O.C. #: C#736102-01-01

Attention: Reece Clark

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

Report Date: 2024/10/22

Report #: R3575704 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C482688 Received: 2024/10/15, 08:43

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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas

22 Oct 2024 15:09:02

Please direct all questions regarding this Certificate of Analysis to: Aldean Alicando, Customer Solutions Representative Email: Aldean.ALICANDO@bureauveritas.com

Phone# (604)734-7276 Ext:7062605

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, General Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CXV923		CXV924		
					2024/10/10		2024/10/10		
Sampling Date					08:00		08:15		
COC Number					C#736102-01-01		C#736102-01-01		
	UNITS	MAC	AO	OG	WELL#2	QC Batch	WELL#3	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	B568601	<0.0050	0.0050	B568601
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	70.7	B564712	40.2	0.50	B564712
Nitrate (N)	mg/L	10	-	-	0.067	B564721	0.133	0.020	B564721
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	260	B567215	140	2.0	B567215
рН	pН	-	-	7.0:10.5	6.89	B567214	6.59	N/A	B567214
Total Dissolved Solids	mg/L	-	500	-	160	B566428	90	10	B566520
Anions									
Alkalinity (PP as CaCO3)	mg/L		-	-	<1.0	B567208	<1.0	1.0	B567208
Alkalinity (Total as CaCO3)	mg/L	-	-	-	39	B567208	24	1.0	B567208
Bicarbonate (HCO3)	mg/L	-	1	-	48	B567208	29	1.0	B567208
Carbonate (CO3)	mg/L	-	ı	1	<1.0	B567208	<1.0	1.0	B567208
Dissolved Fluoride (F)	mg/L	1.5	1	-	0.050	B568464	<0.050	0.050	B568464
Hydroxide (OH)	mg/L	-	-	-	<1.0	B567208	<1.0	1.0	B567208
Chloride (Cl)	mg/L	-	250	-	40	B568156	17	1.0	B568156
Sulphate (SO4)	mg/L	-	500	-	19	B568156	11	1.0	B568156
MISCELLANEOUS									
True Colour	Col. Unit	-	15	-	<2.0	B567306	<2.0	2.0	B567306
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.067	B568597	0.133	0.020	B568597
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.60	B565266	0.23	0.10	B565266
No Fill	No Exceedanc	ce							
Grey	xceeds 1 crit	eria policy/le	evel						
Black	xceeds both	criteria/level	ls						
RDL = Reportable Detectio	n Limit								
N/A = Not Applicable									



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Bureau Veritas ID					CXV925		CXV926		
Samulina Data					2024/10/10		2024/10/10		
Sampling Date					08:30		08:45		
COC Number					C#736102-01-01		C#736102-01-01		
	UNITS	MAC	AO	OG	RIDGE	QC Batch	FARM RD	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	B568601	<0.0050	0.0050	B568601
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	40.0	B564712	40.3	0.50	B564712
Nitrate (N)	mg/L	10	-	-	0.151	B564721	0.137	0.020	B564721
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	220	B567215	220	2.0	B567215
рН	pН	-	-	7.0:10.5	7.61	B567214	7.56	N/A	B567214
Total Dissolved Solids	mg/L	-	500	-	120	B566520	130	10	B566428
Anions	_								
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	B567208	<1.0	1.0	B567208
Alkalinity (Total as CaCO3)	mg/L	-	-	-	66	B567208	66	1.0	B567208
Bicarbonate (HCO3)	mg/L	-	-	-	81	B567208	80	1.0	B567208
Carbonate (CO3)	mg/L	-	-	-	<1.0	B567208	<1.0	1.0	B567208
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	B568464	<0.050	0.050	B568464
Hydroxide (OH)	mg/L	-	-	-	<1.0	B567208	<1.0	1.0	B567208
Chloride (Cl)	mg/L	-	250	-	18	B568156	18	1.0	B568156
Sulphate (SO4)	mg/L	-	500	-	11	B568156	12	1.0	B568156
MISCELLANEOUS									
True Colour	Col. Unit	•	15	-	<2.0	B567306	<2.0	2.0	B567306
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	1	-	0.151	B568597	0.137	0.020	B568597
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.18	B565266	0.23	0.10	B565266
No Fill N	lo Exceedanc	ce							
Grey E	xceeds 1 crit	eria policy/le	evel						
	xceeds both	criteria/leve	ls						
RDL = Reportable Detection	ı Limit								
N/A = Not Applicable									



VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (DRINKING WATER)

Bureau Veritas ID				CXV923	CXV924	CXV925	CXV926		
Sampling Date				2024/10/10 08:00	2024/10/10 08:15	2024/10/10 08:30	2024/10/10 08:45		
COC Number				C#736102-01-01	C#736102-01-01	C#736102-01-01	C#736102-01-01		
		UNITS	MAC	WELL#2	WELL#3	RIDGE	FARM RD	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	<0.0019	<0.0019	0.0024	<0.0019	0.0019	B570192
No Fill	No E	xceedar	ice						
Grey	Exce	eds 1 cr	iteria p	oolicy/level					
Black	Exce	eds botl	n criter	ria/levels					
RDL = Reportable Dete	ction Li	imit							



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

	_		_							
Bureau Veritas ID					CXV923	CXV924	CXV925	CXV926		
Sampling Date					2024/10/10 08:00	2024/10/10 08:15	2024/10/10 08:30	2024/10/10 08:45		
COC Number					C#736102-01-01	C#736102-01-01	C#736102-01-01	C#736102-01-01		
	UNITS	MAC	AO	OG	WELL#2	WELL#3	RIDGE	FARM RD	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (AI)	ug/L	2900	-	100	3.8	8.8	5.4	5.3	3.0	B571509
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	<0.50	0.50	B571509
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	<0.10	<0.10	0.10	B571509
Total Barium (Ba)	ug/L	2000	-	-	47.5	25.8	25.7	25.9	1.0	B571509
Total Boron (B)	ug/L	5000	-	-	123	<50	<50	<50	50	B571509
Total Cadmium (Cd)	ug/L	7	-	-	0.019	0.030	<0.010	<0.010	0.010	B571509
Total Chromium (Cr)	ug/L	50	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B571509
Total Cobalt (Co)	ug/L	-	-	-	0.27	0.36	<0.20	<0.20	0.20	B571509
Total Copper (Cu)	ug/L	2000	1000	١	1.41	2.42	4.26	8.90	0.20	B571509
Total Iron (Fe)	ug/L	-	300	1	127	81.5	54.0	81.2	5.0	B571509
Total Lead (Pb)	ug/L	5	-	-	<0.20	0.44	<0.20	<0.20	0.20	B571509
Total Manganese (Mn)	ug/L	120	20	-	126	89.2	14.8	12.1	1.0	B571509
Total Molybdenum (Mo)	ug/L	-	-	1	2.6	<1.0	<1.0	<1.0	1.0	B571509
Total Nickel (Ni)	ug/L	-	-	1	<1.0	<1.0	<1.0	<1.0	1.0	B571509
Total Selenium (Se)	ug/L	50	-	ı	<0.10	<0.10	<0.10	<0.10	0.10	B571509
Total Silver (Ag)	ug/L	-	-	١	<0.020	<0.020	<0.020	<0.020	0.020	B571509
Total Strontium (Sr)	ug/L	7000	-	-	159	78.2	77.4	78.7	1.0	B571509
Total Uranium (U)	ug/L	20	-	١	<0.10	<0.10	<0.10	<0.10	0.10	B571509
Total Vanadium (V)	ug/L	-	-	ŀ	<5.0	<5.0	<5.0	<5.0	5.0	B571509
Total Zinc (Zn)	ug/L	-	5000	1	24.3	7.1	10.3	<5.0	5.0	B571509
Total Calcium (Ca)	mg/L	-	-	١	25.5	14.6	14.5	14.6	0.050	B564720
Total Magnesium (Mg)	mg/L	-	-	-	1.71	0.917	0.916	0.926	0.050	B564720
Total Potassium (K)	mg/L	-	-	-	2.59	1.33	1.32	1.33	0.050	B564720
Total Sodium (Na)	mg/L	-	200	-	14.4	6.67	24.9	25.4	0.050	B564720
Total Sulphur (S)	mg/L	-	-	-	6.2	4.2	4.0	3.9	3.0	B564720
	- 1							·		

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit



VILLAGE OF PEMBERTON

GENERAL COMMENTS

Sample CXV923 [WELL#2]: Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N).

Sample CXV924 [WELL#3]: Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N).

Sample CXV925 [RIDGE]: Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N).

Sample CXV926 [FARM RD] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Color (True) by Automated Analyzer. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrate (N). Regular Level Water. MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, August 2024.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B565266	Turbidity	2024/10/15			104	80 - 120	<0.10	NTU	16	20
B566428	Total Dissolved Solids	2024/10/17	105	80 - 120	104	80 - 120	<10	mg/L	13	20
B566520	Total Dissolved Solids	2024/10/17	102	80 - 120	103	80 - 120	<10	mg/L	2.2	20
B567208	Alkalinity (PP as CaCO3)	2024/10/17					<1.0	mg/L	NC	20
B567208	Alkalinity (Total as CaCO3)	2024/10/17			95	80 - 120	<1.0	mg/L	1.1	20
B567208	Bicarbonate (HCO3)	2024/10/17					<1.0	mg/L	1.1	20
B567208	Carbonate (CO3)	2024/10/17					<1.0	mg/L	NC	20
B567208	Hydroxide (OH)	2024/10/17					<1.0	mg/L	NC	20
B567214	нд	2024/10/17			100	97 - 103			0.65	N/A
B567215	Conductivity	2024/10/17			101	90 - 110	<2.0	uS/cm		
B567306	True Colour	2024/10/16			103	80 - 120	<2.0	Col. Unit	NC	20
B568156	Chloride (CI)	2024/10/17	ON	80 - 120	100	80 - 120	<1.0	mg/L	0.38	20
B568156	Sulphate (SO4)	2024/10/17	NC	80 - 120	96	80 - 120	<1.0	mg/L		
B568464	Dissolved Fluoride (F)	2024/10/17	103	80 - 120	101	80 - 120	<0.050	mg/L	NC	20
B568597	Nitrate plus Nitrite (N)	2024/10/17	114	80 - 120	109	80 - 120	<0.020	mg/L	NC	25
B568601	Nitrite (N)	2024/10/17	87	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20
B570192	Total Mercury (Hg)	2024/10/18	91	80 - 120	89	80 - 120	<0.0019	ug/L	NC	20
B571509	Total Aluminum (AI)	2024/10/21	91	80 - 120	95	80 - 120	<3.0	ng/L	NC	20
B571509	Total Antimony (Sb)	2024/10/21	95	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
8571509	Total Arsenic (As)	2024/10/21	96	80 - 120	100	80 - 120	<0.10	ng/L	NC	20
B571509	Total Barium (Ba)	2024/10/21	68	80 - 120	102	80 - 120	<1.0	ng/L	0.65	20
B571509	Total Boron (B)	2024/10/21	84	80 - 120	104	80 - 120	<50	ug/L	2.2	20
B571509	Total Cadmium (Cd)	2024/10/21	95	80 - 120	102	80 - 120	<0.010	ng/L	13	20
B571509	Total Chromium (Cr)	2024/10/21	88	80 - 120	95	80 - 120	<1.0	ng/L	NC	20
B571509	Total Cobalt (Co)	2024/10/21	88	80 - 120	95	80 - 120	<0.20	ng/L	3.7	20
B571509	Total Copper (Cu)	2024/10/21	98	80 - 120	94	80 - 120	<0.20	ug/L	2.5	20
B571509	Total Iron (Fe)	2024/10/21	96	80 - 120	102	80 - 120	<5.0	ng/L	1.1	20
B571509	Total Lead (Pb)	2024/10/21	90	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
B571509	Total Manganese (Mn)	2024/10/21	NC	80 - 120	102	80 - 120	<1.0	ng/L	1.9	20
B571509	Total Molybdenum (Mo)	2024/10/21	103	80 - 120	102	80 - 120	<1.0	ug/L	0.10	20
8571509	Total Nickel (Ni)	2024/10/21	91	80 - 120	98	80 - 120	<1.0	ng/L	NC	20
B571509	Total Selenium (Se)	2024/10/21	91	80 - 120	104	80 - 120	<0.10	ng/L	NC	20
B571509	Total Silver (Ag)	2024/10/21	93	80 - 120	102	80 - 120	<0.020	ng/L	NC	20
B571509	Total Strontium (Sr)	2024/10/21	NC	80 - 120	95	80 - 120	<1.0	ng/L	0.066	20
			0 0000	210						

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Bureau Veritas Burnaby: 4606 Canada Way VSG 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

		-								
			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	•
QC Batch	QC Batch Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B571509	Total Uranium (U)	2024/10/21	86	80 - 120	104	80 - 120	<0.10	ng/L	NC	20
B571509	Total Vanadium (V)	2024/10/21	92	80 - 120	95	80 - 120	<5.0	ng/L	NC	20
B571509	B571509 Total Zinc (Zn)	2024/10/21	93	80 - 120	101	80 - 120	<5.0	ng/L	1.7	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.

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).



Your C.O.C. #: C#741779-04-01

Attention: Reece Clark

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

Report Date: 2024/11/27

Report #: R3593522 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C494769 Received: 2024/11/21, 08:26

Sample Matrix: Water # Samples Received: 4

·		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	3	N/A	2024/11/21	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2024/11/26	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	1	N/A	2024/11/22	BBY6SOP-00011 /	SM24-4500-Cl/SO4-E m
			0004/44/05	BBY6SOP-00017	S. 10.1 15.00 SI /S.0.1 5
Chloride/Sulphate by Auto Colourimetry	2	N/A	2024/11/25	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-CI/SO4-E m
Chloride/Sulphate by Auto Colourimetry	1	N/A	2024/11/27	BBY6SOP-00011 /	SM24-4500-Cl/SO4-E m
				BBY6SOP-00017	
Color (True) by Automated Analyzer	4	N/A		BBY6SOP-00057	SM 24 2120 C m
Conductivity @25C	3	N/A	2024/11/21	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	1	N/A	2024/11/26	BBY6SOP-00026	SM 24 2510 B m
Fluoride	4	N/A	2024/11/21	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	3	N/A	2024/11/22	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1)	1	N/A	2024/11/27	BBY WI-00033	Auto Calc
Mercury (Total) by CV	4	2024/11/22	2024/11/22	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2024/11/22	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2024/11/27	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	3	N/A	2024/11/21	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (total)	1	N/A	2024/11/27	BBY7SOP-00003 /	EPA 6020b R2 m
				BBY7SOP-00002	
Nitrate + Nitrite (N)	4	N/A		BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A		BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A		BBY WI-00033	Auto Calc
pH @25°C (2)	3	N/A	2024/11/21	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (2)	1	N/A	2024/11/26	BBY6SOP-00026	SM 24 4500-H+ B m
Total Dissolved Solids (Filt. Residue)	4	2024/11/21	2024/11/22	BBY6SOP-00033	SM 24 2540 C m
Turbidity	4	N/A	2024/11/21	BBY6SOP-00027	SM 24 2130 B m

Remarks:

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



Your C.O.C. #: C#741779-04-01

Attention: Reece Clark

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

Report Date: 2024/11/27

Report #: R3593522 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C494769 Received: 2024/11/21, 08:26

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas 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 Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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) "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).
- (2) 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 endeavours to analyze samples as soon as possible after receipt.

Encryption Key



Bureau Veritas

27 Nov 2024 15:18:35

Please direct all questions regarding this Certificate of Analysis to:

Aldean Alicando, Customer Solutions Representative

Email: Aldean.ALICANDO@bureauveritas.com

Phone# (604)734-7276 Ext:7062605

This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Raphael Kwan, General Manager, BC and Yukon Regions responsible for British Columbia Environmental laboratory operations.



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID					DAU040		DAU041		
Camalina Data					2024/11/20		2024/11/20		
Sampling Date					08:00		08:15		
COC Number					C#741779-04-01		C#741779-04-01		
	UNITS	MAC	AO	OG	WELL #2	QC Batch	WELL #3	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	B615787	<0.0050	0.0050	B615787
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	69.9	B619766	30.3	0.50	B615078
Nitrate (N)	mg/L	10	-	-	0.172	B615083	0.148	0.020	B615083
Misc. Inorganics									
Conductivity	uS/cm	-	-	-	270	B619950	99	2.0	B615625
pН	pН	-	-	7.0:10.5	6.89	B619943	6.49	N/A	B615623
Total Dissolved Solids	mg/L	-	500	-	140	B615720	48	10	B615720
Anions									
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	B619934	<1.0	1.0	B615624
Alkalinity (Total as CaCO3)	mg/L	-	-	-	39	B619934	21	1.0	B615624
Bicarbonate (HCO3)	mg/L	-	-	-	48	B619934	25	1.0	B615624
Carbonate (CO3)	mg/L	-	-	-	<1.0	B619934	<1.0	1.0	B615624
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	B615921	<0.050	0.050	B615921
Hydroxide (OH)	mg/L	-	1	-	<1.0	B619934	<1.0	1.0	B615624
Chloride (Cl)	mg/L	ı	250	-	38	B621571	9.0	1.0	B615863
Sulphate (SO4)	mg/L	-	500	-	20	B621571	10	1.0	B615863
MISCELLANEOUS									
True Colour	Col. Unit	ı	15	-	3.8	B615347	<2.0	2.0	B615347
Nutrients									
Nitrate plus Nitrite (N)	mg/L	ı	-	-	0.172	B615782	0.148	0.020	B615782
Physical Properties									
Turbidity	NTU	see remark	see remark	see remark	0.77	B615706	<0.10	0.10	B615706
No Fill	No Exceedanc	ce							
Grey	Exceeds 1 crit	eria policy/le	evel						
Black	Exceeds both	criteria/leve	ls						
RDL = Reportable Detectio	n Limit								
N/A = Not Applicable									



VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF WATER

ANIONS Nitrite (N)										
Sampling Date	Bureau Veritas ID						DAU042	DAU043		
COC Number	Sampling Date						2024/11/20	2024/11/20		
Nitrite (N)	Sampling Date						08:30	08:45		
ANIONS Nitrite (N)	COC Number						C#741779-04-01	C#741779-04-01		
Nitrite (N)			UNITS	MAC	AO	OG	RIDGE	FARM RD.	RDL	QC Batch
Calculated Parameters	ANIONS									
Total Hardness (CaCO3)	Nitrite (N)		mg/L	1	-	-	<0.0050	<0.0050	0.0050	B615787
Nitrate (N)	Calculated Parameter	s								
Misc. Inorganics Conductivity uS/cm - - - 200 210 2.0 B6156 pH pH - - 7.0:10.5 7.54 7.59 N/A B6156 Total Dissolved Solids mg/L - 500 - 96 96 10 B6155 Anions Alkalinity (PP as CaCO3) mg/L - - - 1.0 <1.0	Total Hardness (CaCO	3)	mg/L	-	-	-	32.0	31.8	0.50	B615078
Conductivity us/cm 200 210 2.0 B6150 pH pH 7.0:10.5 7.54 7.59 N/A B6150 Total Dissolved Solids mg/L - 500 - 96 96 10 B6150 Anions Alkalinity (PP as CaCO3) mg/L <1.0 <1.0 1.0 B6150 Alkalinity (Total as CaCO3) mg/L 73 75 1.0 B6150 Bicarbonate (HCO3) mg/L 89 91 1.0 B6150 Carbonate (CO3) mg/L <1.0 <1.0 <1.0 1.0 B6150 Dissolved Fluoride (F) mg/L 1.5 <1.0 <1.0 <1.0 1.0 B6150 Hydroxide (OH) mg/L <1.0 <1.0 <1.0 1.0 B6150 Chloride (CI) mg/L <1.0 <1.0 <1.0 1.0 B6150 MISCELLANEOUS True Colour Col. Unit - 15 - <2.0 3.7 2.0 B6150 Nutrients Nitrate plus Nitrite (N) mg/L 0.149 0.157 0.020 B6150 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	Nitrate (N)		mg/L	10	-	-	0.149	0.157	0.020	B615083
pH pH - - 7.0:10.5 7.54 7.59 N/A B6156 Total Dissolved Solids mg/L - 500 - 96 96 10 B6156 Anions Alkalinity (PP as CaCO3) mg/L -	Misc. Inorganics									
Total Dissolved Solids	Conductivity		uS/cm	-	-	-	200	210	2.0	B615625
Anions Alkalinity (PP as CaCO3)	рН		pН	-	-	7.0:10.5	7.54	7.59	N/A	B615623
Alkalinity (PP as CaCO3)	Total Dissolved Solids		mg/L	-	500	-	96	96	10	B615720
Alkalinity (Total as CaCO3) mg/L 73 75 1.0 86156 Bicarbonate (HCO3) mg/L 89 91 1.0 86156 Carbonate (CO3) mg/L < 1.0 < 1.0 1.0 86156 Dissolved Fluoride (F) mg/L 1.5 < 0.050 < 0.050 0.050 86155 Hydroxide (OH) mg/L < 1.0 < 1.0 1.0 86166 Chloride (CI) mg/L - 250 - 11 11 11 1.0 86166 Sulphate (SO4) mg/L - 500 - 11 11 11 1.0 86166 MISCELLANEOUS True Colour Col. Unit - 15 - < 2.0 3.7 2.0 86155 Nutrients Nitrate plus Nitrite (N) mg/L 0.149 0.157 0.020 86155 Physical Properties Turbidity NTU see remark see remark see remark 0.85 0.13 0.10 86155 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	Anions									
Bicarbonate (HCO3)	Alkalinity (PP as CaCO	3)	mg/L	-	-	-	<1.0	<1.0	1.0	B615624
Carbonate (CO3)	Alkalinity (Total as CaC	(303)	mg/L	-	-	-	73	75	1.0	B615624
Dissolved Fluoride (F) mg/L 1.5 - - <0.050 <0.050 0.050 0.050	Bicarbonate (HCO3)		mg/L	-	-	-	89	91	1.0	B615624
Hydroxide (OH)	Carbonate (CO3)		mg/L	-	-	-	<1.0	<1.0	1.0	B615624
Chloride (Cl) mg/L - 250 - 11 11 1.0 B6169 MISCELLANEOUS True Colour Col. Unit - 15 - <2.0	Dissolved Fluoride (F)		mg/L	1.5	-	-	<0.050	<0.050	0.050	B615921
Sulphate (SO4) mg/L - 500 - 11 11 1.0 B6169 MISCELLANEOUS True Colour Col. Unit - 15 - <2.0	Hydroxide (OH)		mg/L	1	1	-	<1.0	<1.0	1.0	B615624
MISCELLANEOUS True Colour Col. Unit - 15 - <2.0 3.7 2.0 B6153 Nutrients Nitrate plus Nitrite (N) mg/L - - 0.149 0.157 0.020 B6153 Physical Properties Turbidity NTU see remark see remark see remark 0.85 0.13 0.10 B6153 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	Chloride (Cl)		mg/L	ı	250	-	11	11	1.0	B616970
True Colour Col. Unit - 15 - <2.0 3.7 2.0 B6153 Nutrients Nitrate plus Nitrite (N) mg/L - - 0.149 0.157 0.020 B6153 Physical Properties Turbidity NTU see remark see remark 0.85 0.13 0.10 B6153 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds 1 criteria policy/levels Black Exceeds both criteria/levels RDL = Reportable Detection Limit - - - 0.149 0.157 0.020 B6153	Sulphate (SO4)		mg/L	1	500	-	11	11	1.0	B616970
Nitrate plus Nitrite (N) mg/L 0.149 0.157 0.020 B6157 Physical Properties Turbidity NTU see remark see remark see remark 0.85 0.13 0.10 B6157 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	MISCELLANEOUS									
Nitrate plus Nitrite (N) mg/L 0.149 0.157 0.020 B6157 Physical Properties Turbidity NTU see remark see remark see remark 0.85 0.13 0.10 B6157 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	True Colour		Col. Unit	1	15	-	<2.0	3.7	2.0	B615347
Physical Properties Turbidity NTU see remark see remark see remark 0.85 No Fill No Exceedance Exceeds 1 criteria policy/level Black RDL = Reportable Detection Limit	Nutrients									
Turbidity NTU see remark see remark see remark 0.85 0.13 0.10 B6157 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	Nitrate plus Nitrite (N)		mg/L	1	-	-	0.149	0.157	0.020	B615782
No Fill No Exceedance Exceeds 1 criteria policy/level Black Exceeds both criteria/levels RDL = Reportable Detection Limit	Physical Properties									
Grey Exceeds 1 criteria policy/level Black Exceeds both criteria/levels RDL = Reportable Detection Limit	Turbidity		NTU	see remark	see remark	see remark	0.85	0.13	0.10	B615706
Black Exceeds both criteria/levels RDL = Reportable Detection Limit	No Fill	No Ex	ceedance							
RDL = Reportable Detection Limit	Grey	Excee	ds 1 criter	ria policy/lev	el					
	Black	Excee	ds both cr	riteria/levels						
N/A = Not Applicable	RDL = Reportable Dete	ection Li	mit							
	N/A = Not Applicable									



VILLAGE OF PEMBERTON

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID				DAU040	DAU041	DAU042	DAU043		
Sampling Date				2024/11/20 08:00	2024/11/20 08:15	2024/11/20 08:30	2024/11/20 08:45		
COC Number				C#741779-04-01	C#741779-04-01	C#741779-04-01	C#741779-04-01		
		UNITS	MAC	WELL #2	WELL #3	RIDGE	FARM RD.	RDL	QC Batch
Elements									
Total Mercury (Hg)		ug/L	1	0.0020	<0.0019	<0.0019	<0.0019	0.0019	B616444
No Fill	No E	xceedar	ice						
Grey	Exce	eds 1 cr	iteria p	oolicy/level					
Black	Exce	eds botl	r criter	ria/levels					
RDL = Reportable Dete	ction L	imit							



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID					DAU040		DAU041	DAU042		
Carrallia a Data					2024/11/20		2024/11/20	2024/11/20		
Sampling Date					08:00		08:15	08:30		
COC Number					C#741779-04-01		C#741779-04-01	C#741779-04-01		
	UNITS	MAC	AO	OG	WELL #2	QC Batch	WELL #3	RIDGE	RDL	QC Batch
Total Metals by ICPMS										
Total Aluminum (AI)	ug/L	2900	-	100	5.8	B620515	8.9	8.1	3.0	B615792
Total Antimony (Sb)	ug/L	6	-	-	<0.50	B620515	<0.50	<0.50	0.50	B615792
Total Arsenic (As)	ug/L	10	-	,	<0.10	B620515	<0.10	<0.10	0.10	B615792
Total Barium (Ba)	ug/L	2000	-	1	44.8	B620515	18.9	18.0	1.0	B615792
Total Boron (B)	ug/L	5000	-	-	145	B620515	<50	<50	50	B615792
Total Cadmium (Cd)	ug/L	7	-	1	<0.010	B620515	0.023	0.011	0.010	B615792
Total Chromium (Cr)	ug/L	50	-	1	<1.0	B620515	<1.0	<1.0	1.0	B615792
Total Cobalt (Co)	ug/L	-	-	1	0.24	B620515	0.28	<0.20	0.20	B615792
Total Copper (Cu)	ug/L	2000	1000	,	1.51	B620515	3.50	6.92	0.20	B615792
Total Iron (Fe)	ug/L	-	300	1	154	B620515	70.6	115	5.0	B615792
Total Lead (Pb)	ug/L	5	-	'	<0.20	B620515	0.27	<0.20	0.20	B615792
Total Manganese (Mn)	ug/L	120	20	-	100	B620515	60.3	14.6	1.0	B615792
Total Molybdenum (Mo)	ug/L	-	-	1	2.9	B620515	<1.0	<1.0	1.0	B615792
Total Nickel (Ni)	ug/L	-	-	-	<1.0	B620515	<1.0	<1.0	1.0	B615792
Total Selenium (Se)	ug/L	50	-	-	<0.10	B620515	<0.10	<0.10	0.10	B615792
Total Silver (Ag)	ug/L	-	-	'	<0.020	B620515	<0.020	<0.020	0.020	B615792
Total Strontium (Sr)	ug/L	7000	-	-	151	B620515	59.1	61.5	1.0	B615792
Total Uranium (U)	ug/L	20	-	-	<0.10	B620515	<0.10	<0.10	0.10	B615792
Total Vanadium (V)	ug/L	-	-	-	<5.0	B620515	<5.0	<5.0	5.0	B615792
Total Zinc (Zn)	ug/L	-	5000	-	17.4	B620515	5.2	7.5	5.0	B615792
Total Calcium (Ca)	mg/L	-	-	-	25.4	B620065	11.0	11.6	0.050	B615213
Total Magnesium (Mg)	mg/L	-	-	1	1.60	B620065	0.715	0.747	0.050	B615213
Total Potassium (K)	mg/L	-	-	-	2.62	B620065	1.09	1.12	0.050	B615213
Total Sodium (Na)	mg/L	-	200	-	15.2	B620065	4.78	31.1	0.050	B615213
Total Sulphur (S)	mg/L	-	-	-	6.4	B620065	3.1	<3.0	3.0	B615213
No Fill No	Exceeda	nce								

Black

Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit



VILLAGE OF PEMBERTON

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas	ID					DAU043		
Sampling Date						2024/11/20 08:45		
COC Number						C#741779-04-01		
COC Number		UNITS	MAC	AO	OG	FARM RD.	RDL	QC Batch
		ONITS	IVIAC	AU	00	PARIVI RD.	KDL	QC Batti
Total Metals b								
Total Aluminur	· ·	ug/L	2900	-	100	4.6	3.0	B615792
Total Antimony		ug/L	6	-	-	<0.50	0.50	B615792
Total Arsenic (A	As)	ug/L	10	-	-	<0.10	0.10	B615792
Total Barium (E	Ba)	ug/L	2000	-	ı	17.9	1.0	B615792
Total Boron (B)		ug/L	5000	-	ı	<50	50	B615792
Total Cadmium	(Cd)	ug/L	7	-	1	<0.010	0.010	B615792
Total Chromiur	n (Cr)	ug/L	50	-	-	<1.0	1.0	B615792
Total Cobalt (C	0)	ug/L	-	-	-	<0.20	0.20	B615792
Total Copper (0	Cu)	ug/L	2000	1000	-	6.98	0.20	B615792
Total Iron (Fe)		ug/L	-	300	-	50.1	5.0	B615792
Total Lead (Pb)		ug/L	5	-	-	<0.20	0.20	B615792
Total Mangane	se (Mn)	ug/L	120	20	-	6.0	1.0	B615792
Total Molybdei	num (Mo)	ug/L	-	-	-	<1.0	1.0	B615792
Total Nickel (Ni	i)	ug/L	-	-	-	<1.0	1.0	B615792
Total Selenium	(Se)	ug/L	50	-	-	<0.10	0.10	B615792
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	B615792
Total Strontiun	n (Sr)	ug/L	7000	-	-	62.7	1.0	B615792
Total Uranium	(U)	ug/L	20	-	-	<0.10	0.10	B615792
Total Vanadiun	n (V)	ug/L	-	-	-	<5.0	5.0	B615792
Total Zinc (Zn)		ug/L	-	5000	-	<5.0	5.0	B615792
Total Calcium (Ca)	mg/L	-	-	-	11.5	0.050	B615213
Total Magnesiu	ım (Mg)	mg/L	-	-	-	0.731	0.050	B615213
Total Potassiun	n (K)	mg/L	-	-	-	1.10	0.050	B615213
Total Sodium (I	Na)	mg/L	-	200	-	30.6	0.050	B615213
Total Sulphur (S)	mg/L	,	-	-	3.2	3.0	B615213
No Fill	No Exceedar	nce						
Grey	Exceeds 1 cr	iteria po	olicy/le	evel				
Black	Exceeds bot	h criteri	a/leve	ls				
DDI Domontol	. I. D							

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RDL = Reportable Detection Limit



Bureau Veritas Job #: C494769 Report Date: 2024/11/27

VILLAGE OF PEMBERTON

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, August 2024.

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.

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT

			Matrix Spike	pike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B615347	True Colour	2024/11/21			101	80 - 120	<2.0	Col. Unit	NC	20
B615623	рн	2024/11/21			100	97 - 103				
B615624	Alkalinity (PP as CaCO3)	2024/11/21					<1.0	mg/L		
B615624	Alkalinity (Total as CaCO3)	2024/11/21			92	80 - 120	<1.0	mg/L		
B615624	Bicarbonate (HCO3)	2024/11/21					<1.0	mg/L		
B615624	Carbonate (CO3)	2024/11/21					<1.0	mg/L		
B615624	Hydroxide (OH)	2024/11/21					<1.0	mg/L		
B615625	Conductivity	2024/11/21			98	90 - 110	<2.0	uS/cm		
B615706	Turbidity	2024/11/21			102	80 - 120	<0.10	NTU	5.4	20
B615720	Total Dissolved Solids	2024/11/22	101	80 - 120	97	80 - 120	<10	T/Bm	5.4	20
B615782	Nitrate plus Nitrite (N)	2024/11/21			111	80 - 120	<0.020	mg/L		
B615787	Nitrite (N)	2024/11/21			105	80 - 120	<0.0050	T/Bm		
B615792	Total Aluminum (AI)	2024/11/21	102	80 - 120	102	80 - 120	<3.0	ng/L	1.1	20
B615792	Total Antimony (Sb)	2024/11/21	100	80 - 120	97	80 - 120	<0.50	ng/L	NC	20
B615792	Total Arsenic (As)	2024/11/21	101	80 - 120	102	80 - 120	<0.10	1/8n	2.9	20
B615792	Total Barium (Ba)	2024/11/21	86	80 - 120	100	80 - 120	<1.0	ng/L	5.8	20
B615792	Total Boron (B)	2024/11/21	94	80 - 120	94	80 - 120	<50	ug/L	NC	20
B615792	Total Cadmium (Cd)	2024/11/21	102	80 - 120	103	80 - 120	<0.010	ng/L	NC	20
B615792	Total Chromium (Cr)	2024/11/21	101	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
B615792	Total Cobalt (Co)	2024/11/21	100	80 - 120	100	80 - 120	<0.20	ng/L	NC	20
B615792	Total Copper (Cu)	2024/11/21	66	80 - 120	100	80 - 120	<0.20	ng/L	2.1	20
B615792	Total Iron (Fe)	2024/11/21	66	80 - 120	103	80 - 120	<5.0	ug/L	4.3	20
B615792	Total Lead (Pb)	2024/11/21	95	80 - 120	97	80 - 120	<0.20	ng/L	NC	20
B615792	Total Manganese (Mn)	2024/11/21	100	80 - 120	98	80 - 120	<1.0	ng/L	1.4	20
B615792	Total Molybdenum (Mo)	2024/11/21	103	80 - 120	105	80 - 120	<1.0	ng/L	NC	20
B615792	Total Nickel (Ni)	2024/11/21	66	80 - 120	100	80 - 120	<1.0	ng/L	NC	20
B615792	Total Selenium (Se)	2024/11/21	103	80 - 120	104	80 - 120	<0.10	ng/L	NC	20
B615792	Total Silver (Ag)	2024/11/21	66	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
B615792	Total Strontium (Sr)	2024/11/21	97	80 - 120	66	80 - 120	<1.0	ng/L	2.4	20
B615792	Total Uranium (U)	2024/11/21	96	80 - 120	101	80 - 120	<0.10	ng/L	NC	20
B615792	Total Vanadium (V)	2024/11/21	101	80 - 120	66	80 - 120	<5.0	ng/L	NC	20
B615792	Total Zinc (Zn)	2024/11/21	104	80 - 120	104	80 - 120	<5.0	ng/L	NC	20
B615863	Chloride (CI)	2024/11/22	106	80 - 120	101	80 - 120	<1.0	mg/L		
B615863	Sulphate (SO4)	2024/11/22	149 (1)	80 - 120	98	80 - 120	<1.0	mg/L	3.6	20
				,,,						

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1KS Telephone(604) 734-7276 Fax(604) 731-2386



VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike	Spike	Spiked Blank	Blank	Method Blank	lank	RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B615921	Dissolved Fluoride (F)	2024/11/21	88	80 - 120	92	80 - 120	<0.050	mg/L	NC	20
B616444	Total Mercury (Hg)	2024/11/22	08	80 - 120	93	80 - 120	<0.0019	7/Bn	NC	20
B616970	Chloride (CI)	2024/11/25	112	80 - 120	101	80 - 120	<1.0	T/Bm	0.15	20
B616970	Sulphate (SO4)	2024/11/25	NC	80 - 120	102	80 - 120	<1.0	T/Bm	0.82	20
B619934	Alkalinity (PP as CaCO3)	2024/11/26					<1.0	mg/L	NC	20
B619934	Alkalinity (Total as CaCO3)	2024/11/26			97	80 - 120	<1.0	T/Bm	0.27	20
B619934	Bicarbonate (HCO3)	2024/11/26					<1.0	mg/L		
B619934	Carbonate (CO3)	2024/11/26					<1.0	mg/L		
B619934	Hydroxide (OH)	2024/11/26					<1.0	mg/L		
B619943	рн	2024/11/26			100	97 - 103			0.40	N/A
B619950	Conductivity	2024/11/26			66	90 - 110	<2.0	m2/sn	0	10
B620515	Total Aluminum (AI)	2024/11/27	86	80 - 120	100	80 - 120	<3.0	7∕Bn	1.2	20
B620515	Total Antimony (Sb)	2024/11/27	86	80 - 120	101	80 - 120	<0.50	ng/L	NC	20
B620515	Total Arsenic (As)	2024/11/27	26	80 - 120	100	80 - 120	<0.10	1/8n	3.0	20
B620515	Total Barium (Ba)	2024/11/27	103	80 - 120	98	80 - 120	<1.0	ng/L	NC	20
B620515	Total Boron (B)	2024/11/27	88	80 - 120	102	80 - 120	<50	ng/L	0.22	20
B620515	Total Cadmium (Cd)	2024/11/27	26	80 - 120	66	80 - 120	<0.010	ng/L	8.9	20
B620515	Total Chromium (Cr)	2024/11/27	92	80 - 120	91	80 - 120	<1.0	ng/L	NC	20
B620515	Total Cobalt (Co)	2024/11/27	95	80 - 120	95	80 - 120	<0.20	ng/L	NC	20
B620515	Total Copper (Cu)	2024/11/27	NC	80 - 120	92	80 - 120	<0.20	1/Bn	1.6	20
B620515	Total Iron (Fe)	2024/11/27	102	80 - 120	98	80 - 120	<5.0	ng/L	5.0	20
B620515	Total Lead (Pb)	2024/11/27	85	80 - 120	100	80 - 120	<0.20	ng/L	1.3	20
B620515	Total Manganese (Mn)	2024/11/27	100	80 - 120	92	80 - 120	<1.0	ng/L	0.87	20
B620515	Total Molybdenum (Mo)	2024/11/27	101	80 - 120	100	80 - 120	<1.0	1/Bn	NC	20
B620515	Total Nickel (Ni)	2024/11/27	92	80 - 120	94	80 - 120	<1.0	ng/L	NC	20
B620515	Total Selenium (Se)	2024/11/27	95	80 - 120	97	80 - 120	<0.10	ng/L	4.6	20
B620515	Total Silver (Ag)	2024/11/27	64	80 - 120	97	80 - 120	<0.020	1/8n	NC	20
B620515	Total Strontium (Sr)	2024/11/27	67 (1)	80 - 120	93	80 - 120	<1.0	ng/L	3.0	20
B620515	Total Uranium (U)	2024/11/27	98	80 - 120	102	80 - 120	<0.10	ng/L	NC	20
B620515	Total Vanadium (V)	2024/11/27	90	80 - 120	92	80 - 120	<5.0	ng/L	NC	20
B620515	Total Zinc (Zn)	2024/11/27	NC	80 - 120	98	80 - 120	<5.0	ng/L	0.37	20
B621571	Chloride (Cl)	2024/11/27			95	80 - 120	<1.0	mg/L		

VILLAGE OF PEMBERTON

QUALITY ASSURANCE REPORT(CONT'D)

QC Limits PD PD Value (%) UNITS mg/L **Method Blank** Value <1.0 QC Limits 80 - 120 **Spiked Blank** % Recovery 94 QC Limits **Matrix Spike** % Recovery 2024/11/27 Date Sulphate (SO4) Parameter B621571

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.

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.

Bureau Veritas Job #: C494769

Appendix III

2024 Weekly Water Quality Sampling Results

	Chlorine			
Source	Residual	pН	Temperature (C)	Sum of Alkalinity
3-Jan-24				
Pemberton				
Health Centre	0.34	7.07	8.90	71
Oak St	0.35	7.01	7.50	68
Plateau/Ridge	0.27	7.03	6.80	68
Village Office	0.36	6.99	7.80	72
WWTP	0.11	7.08	9.20	67
PNWS - Meadows Rd *	0.31	6.99	7.60	72
PNWS - Farm Rd *	0.28	6.99	7.40	71
Pemberton Total	0.29	7.02	7.89	489
Industrial Park **	0.23	6.96	7.30	21
10-Jan-24				
Pemberton				
Health Centre	0.33	7.08	9.30	73
Oak St	0.32	7.02	8.00	70
Plateau/Ridge	0.30	7.05		67
Village Office	0.31	7.07	8.00	73
WWTP	0.29	7.07	8.30	76
PNWS - Meadows Rd *				
PNWS - Farm Rd *	0.26	7.03	7.60	69
Pemberton Total	0.30	7.05	8.32	428
Industrial Park **	0.24	6.93	7.70	16
15-Jan-24				
Pemberton				
Health Centre	0.37	7.05	8.00	79
Oak St	0.37	6.98	8.20	74
Plateau/Ridge	0.30	7.01	6.90	77
Village Office	0.33	6.98	7.50	78
WWTP	0.05	7.11	10.20	74
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
Pemberton Total	0.28	7.03	8.16	382
Industrial Park **	0.24	6.93	7.20	17
Well #2		6.32	8.60	34
Well #3		6.17	5.80	12
24-Jan-24				
Pemberton				
	0.05	6.97	7.70	56
Health Centre	0.35	0.57		
	0.35	6.91		75
Health Centre			8.50	
Health Centre Oak St	0.35	6.91	8.50 8.30	75 77 67

^{*} Pemberton North Water Service is a continuation of the Pemberton Water distribution system within Squamish Lilloeet Regional District Area C

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

	Chlorine			
Source	Residual	pН	Temperature (C)	Sum of Alkalinity
PNWS - Meadows Rd *	0.3			
PNWS - Farm Rd *	0.2	_		
Pemberton Total	0.3			
Industrial Park **	0.2			
Well #2		6.38	7.90	37
Well #3		6.17	9.00	34
29-Jan-24				
Pemberton				
Health Centre	0.3	7.04	7.50	69
Oak St	0.3	6.99	7.20	68
Plateau/Ridge	0.3	7.00	7.10	67
Village Office	0.3	1 6.99	6.40	68
WWTP	0.2	6.99	7.00	63
PNWS - Meadows Rd *	0.2	6.99	5.90	67
PNWS - Farm Rd *	0.2	6.99	6.00	67
Pemberton Total	0.2	7.00	6.73	469
Industrial Park **	0.0	7.03	6.60	19
Well #2		6.37	7.90	51
Well #3		6.19	6.90	32
6-Feb-24				
Pemberton				
Health Centre	0.3	7.00	7.90	72
Oak St	0.3	_		
Plateau/Ridge	0.3	_		
Village Office	0.3	_		
WWTP	0.3			
PNWS - Meadows Rd *	0.3	_	6.50	
PNWS - Farm Rd *	0.3			
Pemberton Total	0.3	_		
Industrial Park **	0.0	_		
Well#2		6.38		
Well#3		6.19	8.10	12
12-Feb-24				
Pemberton				
Health Centre	0.3			
Oak St	0.3			
Plateau/Ridge	0.3	_		
Village Office	0.3			
WWTP PNIWS Meadows Pd *	0.2			
PNWS - Meadows Rd * PNWS - Farm Rd *	0.3	_		
PNWS - Farm Rd * Pemberton Total	0.3 0.3			
Industrial Park **	0.3			
Well #2	0.2			
weii #Z		6.30	7.70	3 /

^{*} Pemberton North Water Service is a continuation of the Pemberton Water distribution system within Squamish Lilloeet Regional District Area C

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	Chlorine			
Source	Residual	рH	Temperature (C)	Sum of Alkalinity
Well #3		6.13		
21-Feb-24	0.3	6.92	7.46	539
27-Feb-24	0.3	27 6.77	7.64	476
5-Mar-24				
Pemberton				
Health Centre	0.3	32 7.00	8.50	58
Oak St	0.3	6.96	6.50	68
Plateau/Ridge	0.2	7 6.94	7.20	65
Village Office	0.3	6.95	7.10	72
WWTP	0.:	.2 6.89	10.10	68
PNWS - Meadows Rd *				
PNWS - Farm Rd *				
Pemberton Total	0.2	6.95	7.88	331
Industrial Park **	0.0	05 6.94	5.70	13
Well #2		6.25	8.50	32
Well #3		6.07	8.20	9
11-Mar-24				
Pemberton				
Health Centre	0.3	7.08	10.50	75
Oak St	0.4	10 7.08	9.20	64
Plateau/Ridge	0.3	35 7.0 €	7.90	72
Village Office	0.4	0 7.08	7.90	71
WWTP	0.2	25 7.08	7.90	70
PNWS - Meadows Rd *	0.3	7.05	8.40	67
PNWS - Farm Rd *	0.3	32 7.04	8.10	70
Pemberton Total	0.3	7.07	8.56	489
Industrial Park **	0.3	35 7.09	8.10	19
Well #2		6.29	8.20	36
Well #3		6.51	. 8.20	9
19-Mar-24				
Pemberton				
Health Centre	0.3	7.10	8.40	
Oak St	0.3	3 7.06	6.90	58
Plateau/Ridge	0.3	7.09	7.90	62
Village Office	0.3	3 7.06	8.20	60
WWTP	0.:	7.07	8.50	71
PNWS - Meadows Rd *	0.3	_		65
PNWS - Farm Rd *	0.3			
Pemberton Total	0.3	_		
Industrial Park **	0.:	_		
Well #2		6.26		
Well #3		6.09	8.50	15
25-Mar-24				
Pemberton				

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	Chlorine				
Source	Residual		рН	Temperature (C)	Sum of Alkalinity
Health Centre		0.28	7.12	8.60	
Oak St		0.30	7.07	7.90	57
Plateau/Ridge		0.30	7.09	7.40	62
Village Office		0.26	7.11	7.50	59
WWTP		0.19	7.06	7.30	61
PNWS - Meadows Rd *		0.29	7.07	7.40	60
PNWS - Farm Rd *		0.29	7.06	7.80	60
Pemberton Total		0.27	7.08	7.70	425
Industrial Park **		0.18	7.03	8.30	18
Well #2		0.00	6.24	8.40	29
Well #3		0.00	6.12	9.10	13
3-Apr-24					
Pemberton					
Health Centre		0.29	7.05	9.40	62
Oak St		0.32	7.00	6.60	68
Plateau/Ridge		0.28	6.99	5.80	65
Village Office		0.31	6.92	8.40	67
WWTP		0.22	6.96	11.20	50
PNWS - Meadows Rd *		0.30	7.00	6.50	62
PNWS - Farm Rd *		0.29	6.98	6.20	64
Pemberton Total		0.29	6.99	7.73	438
Industrial Park **		0.01	6.95	7.60	22
Well #2			6.28	8.30	36
Well #3			6.08	7.50	13
8-Apr-24					
Pemberton					
Health Centre		0.33	7.04	9.40	57
Oak St		0.29	6.98	8.00	56
Plateau/Ridge		0.29	7.00		
Village Office		0.30	6.98		
WWTP		0.25	7.01	9.30	
PNWS - Meadows Rd *		0.27	6.94	7.80	
PNWS - Farm Rd *		0.32	6.96	6.90	
Pemberton Total		0.29	6.99		
Industrial Park **		0.09	6.91	8.50	
Well #2			6.28	8.40	
Well #3			6.07	7.90	14
16-Apr-24					
Pemberton		0.22	7.06	0.10	70
Health Centre		0.32		9.10 8.40	
Oak St		0.30	7.01 7.02	7.30	
Plateau/Ridge		0.32	7.02	6.90	
Village Office					
WWTP		0.26	6.97	8.80	64

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	Chlorine				
Source	Residual		На	Temperature (C)	Sum of Alkalinity
PNWS - Meadows Rd *		0.31	7.00	7.80	63
PNWS - Farm Rd *		0.29	7.01	7.30	66
Pemberton Total		0.30	7.01	7.94	
Industrial Park **		0.23	6.94	6.10	20
Well #2			6.34	8.00	34
Well #3			6.14	8.00	20
22-Apr-24					
Pemberton					
Health Centre	C	0.34	7.04	10.00	69
Oak St	C).34	7.07	8.10	71
Plateau/Ridge	C).22	7.23	8.30	71
Village Office	C	0.32	6.98	9.50	64
WWTP	C	0.23	6.98	9.70	67
PNWS - Meadows Rd *	C	0.33	7.03	7.30	71
PNWS - Farm Rd *	C	0.31	7.03	7.30	65
Pemberton Total	0	0.30	7.05	8.60	478
Industrial Park **	C).24	6.92	9.00	19
Well #2			6.35	8.40	33
Well #3			6.19	8.20	13
1-May-24					
Pemberton					
Health Centre	C).29	6.97	9.90	63
Oak St	C	0.32	7.02	7.60	71
Plateau/Ridge	C).28	7.01	8.90	73
Village Office		_			
WWTP).24	6.96	9.40	65
PNWS - Meadows Rd *).29	7.00	7.90	75
PNWS - Farm Rd *).27	6.98	10.20	67
Pemberton Total).28	6.99		
Industrial Park **	C).25	6.95	9.60	
Well #2		\rightarrow	6.34	9.60	34
Well #3			6.19	8.20	22
6-May-24					
Pemberton			7.00		
Health Centre).35	7.06	9.20	
Oak St).39	7.02	8.20	
Plateau/Ridge).37	7.04	7.60	63
Village Office		0.26	7.07	8.30	
WWTP PNWS - Meadows Rd *		0.20	6.99	8.40	
		0.37	7.02	8.00 8.70	58 67
PNWS - Farm Rd *).35	7.03	8.70 8.34	
Pemberton Total Industrial Park **		0. 33	7.03 6.97	7.80	
Well #2		7.20		7.80	
weii #2		\perp	6.28	7.70	33

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	Chlorine			
Source	Residual	рН	Temperature (C)	Sum of Alkalinity
Well #3		6.13	6.90	5
14-May-24				
Pemberton				
Health Centre	0.28	7.13	9.70	67
Oak St	0.36	7.07	8.90	67
Plateau/Ridge	0.35	7.02	10.70	71
Village Office	0.23	7.09	8.90	69
WWTP	0.20	7.06	10.60	65
PNWS - Meadows Rd *	0.31	7.01	7.20	64
PNWS - Farm Rd *	0.34	6.99	8.90	61
Pemberton Total	0.30	7.05	9.27	464
Industrial Park **	0.30	6.97	7.20	16
Well #2		6.28	11.10	36
Well #3		6.17	10.20	15
22-May-24				
Pemberton				
Health Centre	0.25	7.21	11.40	73
Oak St	0.31	7.20	10.00	79
Plateau/Ridge	0.26	7.31	9.10	75
Village Office	0.21	7.18	10.20	75
WWTP	0.24	7.20	10.00	72
PNWS - Meadows Rd *	0.29	7.22	8.80	75
PNWS - Farm Rd *	0.29	7.20	9.90	78
Pemberton Total	0.26	7.22	9.91	527
Industrial Park **	0.18	7.02	10.30	15
Well #2		6.26	11.20	33
Well #3		6.15	9.50	11
28-May-24				
Pemberton				
Health Centre	0.21	7.26		
Oak St	0.34	7.29		75
Plateau/Ridge	0.31	7.30		79
Village Office	0.20	7.27	10.30	
WWTP	0.25	7.15		66
PNWS - Meadows Rd *	0.34	7.25		80
PNWS - Farm Rd *	0.31	7.23	10.10	75
Pemberton Total	0.28	7.25		525
Industrial Park **	0.24	7.04		16
Well #2		6.23		29
Well #3		6.10	7.80	15
4-Jun-24				
Pemberton				
Health Centre	0.26			
Oak St	0.35	7.21	10.00	73

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	Chlorine				
Source	Residual		pН	Temperature (C)	Sum of Alkalinity
Plateau/Ridge		0.35	7.21	7.50	76
Village Office		0.22	7.22	10.00	77
WWTP		0.22	7.22	9.20	79
PNWS - Meadows Rd *		0.34	7.18	9.40	76
PNWS - Farm Rd *		0.32	7.18	8.90	74
Pemberton Total		0.29	7.20	9.44	537
Industrial Park **		0.23	7.11	8.40	14
Well #2			6.32	10.20	33
Well #3			6.09	8.40	15
10-Jun-24					
Pemberton					
Health Centre		0.25	7.16	12.00	75
Oak St		0.37	7.18	9.10	73
Plateau/Ridge		0.33	7.18	10.10	77
Village Office		0.29	7.18	11.00	72
WWTP		0.20	7.19	10.20	79
PNWS - Meadows Rd *		0.31	7.17	8.50	76
PNWS - Farm Rd *		0.35	7.18	8.20	73
Pemberton Total		0.30	7.18	9.87	525
Industrial Park **		0.22	6.97	10.10	18
Well #2			6.28	11.20	31
Well #3			6.18	9.90	15
17-Jun-24					
Pemberton					
Health Centre		0.33	7.11	12.50	70
Oak St		0.39	7.16	7.90	75
Plateau/Ridge		0.35	7.16	9.30	84
Village Office		0.34	7.16	10.00	76
WWTP		0.16	7.07	9.90	74
PNWS - Meadows Rd *		0.34	7.12	8.50	76
PNWS - Farm Rd *		0.36	7.12	9.50	83
Pemberton Total		0.32	7.13		538
Industrial Park **		0.24	6.96		20
Well #2			6.24	10.70	33
Well #3			6.12	10.30	17
25-Jun-24					
Pemberton					
Health Centre		0.25	7.00	13.10	86
Oak St		0.30	6.96		98
Plateau/Ridge		0.27	6.97	9.40	93
Village Office		0.25	6.98	10.10	92
WWTP		0.18	7.04	11.00	96
PNWS - Meadows Rd *		0.30	6.91	11.20	95
PNWS - Farm Rd *		0.32	6.92	10.10	95

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	Chlorine				
Source	Residual		nН	Temperature (C)	Sum of Alkalinity
Pemberton Total	residuai	0.27	6.97	10.60	655
Industrial Park **		0.07	7.05	10.70	15
Well #2		0.07	6.35	11.20	33
Well #3			0.33	11.20	33
3-Jul-24					
Pemberton					
Health Centre		0.21	6.82	12.70	89
Oak St		0.25	6.74	10.30	95
Plateau/Ridge		0.23	6.80	10.00	93
Village Office		0.22	6.84	10.40	90
WWTP		0.19	6.83	12.60	96
PNWS - Meadows Rd *		0.22	6.74	10.20	98
PNWS - Farm Rd *		0.22	6.71	12.30	90
Pemberton Total		0.22	6.78	11.21	651
Industrial Park **		0.02	6.92	10.00	15
Well #2		0.02	6.19	11.90	41
Well #3			0.19	11.50	41
8-Jul-24					
Pemberton					
Health Centre		0.20	7.08	14.20	64
Oak St		0.28	7.08	10.00	69
		0.36	7.09	10.40	70
Plateau/Ridge		0.36	7.17	10.40	61
Village Office WWTP		0.24	6.85	12.40	89
PNWS - Meadows Rd *		0.35	7.14	9.70	69
PNWS - Farm Rd *		0.35	7.14	10.60	61
Pemberton Total		0.30	7.14	11.17	483
Industrial Park **		0.02	6.96	10.10	15
Well #2		0.02	6.20	11.20	
Well #3			6.14	9.40	13
16-Jul-24			0.14	9.40	13
Pemberton					
Health Centre		0.32	6.87	11.90	64
Oak St		0.38	6.97	9.00	65
Plateau/Ridge		0.38	6.94	7.30	65
Village Office		0.31	6.93	11.80	74
WWTP		0.31	6.83	9.40	63
PNWS - Meadows Rd *		0.29	6.97	11.50	66
PNWS - Farm Rd *		0.37	6.98	10.30	67
Pemberton Total		0.37	6.93		464
Industrial Park **		0.25	6.99	9.60	14
Well #2		0.23	6.26	10.80	
Well #3			6.15	10.00	15
23-Jul-24			0.13	10.00	15
Z3-Jul-Z4					

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Chlorine			
Residual	На	Temperature (C)	Sum of Alkalinity
	Pii	remperature (e)	Sam or rindininey
0.30	6 96	1 60	64
			68
			65
			66
			65
			59
			67
			454
			17
0.04			30
			18
	0.00	10.50	10
0.32	7 01	13 70	69
			70
			74
			75
			76
			73
			70
			507
			17
0.03			35
			18
	0.10	3.30	10
0.34	7.05	10.00	58
			65
			54
			61
			57
			55
0.35	7.05		350
			17
ი 13	7.05	11 00	
0.13	7.05 6.19	11.00 10.70	
0.13	6.19	10.70	30
0.13			30
0.13	6.19	10.70	30
	6.19 6.11	10.70 9.60	30 22
0.30	6.19 6.11 6.88	10.70 9.60 14.70	30 22 67
0.30 0.35	6.19 6.11 6.88 6.80	10.70 9.60 14.70 10.40	30 22 67 71
0.30	6.19 6.11 6.88	10.70 9.60 14.70 10.40 11.90	
	0.30 0.34 0.36 0.32 0.06 0.30 0.31 0.28 0.04 0.32 0.37 0.35 0.33 0.11 0.35 0.36 0.31 0.05	0.30 6.96 0.34 6.96 0.36 6.94 0.32 7.00 0.06 6.96 0.30 6.74 0.31 6.82 0.28 6.91 0.04 6.82 6.18 6.06 0.37 6.96 0.35 6.99 0.31 6.99 0.11 7.00 0.35 6.93 0.36 6.93 0.36 6.93 0.37 6.96 0.37 6.96 0.38 6.97 0.05 6.93 6.17 6.10 0.34 7.05 0.35 7.04 0.30 7.09 0.44 7.06 0.33 7.00 0.34 7.05	0.30 6.96 1.60 0.34 6.96 9.40 0.36 6.94 11.90 0.32 7.00 10.50 0.06 6.96 13.10 0.30 6.74 13.50 0.31 6.82 11.40 0.28 6.91 10.20 0.04 6.82 13.10 6.18 10.80 6.06 10.30 0.37 6.96 10.40 0.35 6.99 10.30 0.31 6.93 11.70 0.36 6.93 11.70 0.36 6.93 10.70 0.31 6.97 11.56 0.05 6.93 12.20 6.17 9.00 6.10 9.90 0.34 7.05 10.00 0.35 7.04 12.00 0.30 7.09 13.50 0.44 7.06 10.30 0.33 7.00 12.80 0.34 7.05 12.80 0.34 7.05 10.00

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	Chlorine			
Source	Residual	На	Temperature (C)	Sum of Alkalinity
PNWS - Meadows Rd *	0.34	_		
PNWS - Farm Rd *	0.33	_		79
Pemberton Total	0.31			
Industrial Park **	0.13		12.30	
Well #2		6.11	11.70	
Well #3		6.06	11.50	18
20-Aug-24				
Pemberton				
Health Centre	0.25	7.00	14.90	75
Oak St	0.33	7.04	9.90	67
Plateau/Ridge	0.31	7.02	11.70	72
Village Office	0.28	7.01	13.20	76
WWTP	0.20	7.03	11.70	73
PNWS - Meadows Rd *	0.30	7.01	10.00	72
PNWS - Farm Rd *	0.32	6.98	11.80	71
Pemberton Total	0.28	7.01	11.89	506
Industrial Park **	0.07	6.99	11.10	16
Well #2		6.28	11.90	33
Well #3		6.11	12.30	21
26-Aug-24				
Pemberton				
Health Centre	0.29	6.90	12.70	75
Oak St	0.32	6.96	11.20	
Plateau/Ridge	0.32	6.95	10.30	
Village Office	0.31		11.50	
WWTP	0.22	_	11.30	
PNWS - Meadows Rd *	0.37	_	12.70	72
PNWS - Farm Rd *	0.33		13.10	
Pemberton Total	0.31			
Industrial Park **	0.22	_	13.00	
Well #2		6.23		
Well #3		6.09	11.30	20
4-Sep-24				
Pemberton				
Health Centre	0.28			
Oak St	0.39	_		
Plateau/Ridge	0.34			
Village Office	0.30		12.70	
WWTP	0.11	_		
PNWS - Meadows Rd *	0.35	_		
PNWS - Farm Rd *	0.33			
Pemberton Total	0.30			
Industrial Park **	0.53	_		
Well #2		6.36	11.40	30

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	Chlorine				
Source	Residual		рΗ	Temperature (C)	Sum of Alkalinity
Well #3			6.23	11.40	21
9-Sep-24					
Pemberton					
Health Centre	0	.30	7.06	13.20	82
Oak St	0	.37	6.97	10.90	81
Plateau/Ridge	0.	.32	7.01	10.50	79
Village Office	0.	.28	7.02	11.50	90
WWTP	0.	.19	6.96	14.10	82
PNWS - Meadows Rd *	0.	.31	6.93	12.60	84
PNWS - Farm Rd *	0.	.33	6.94	11.00	83
Pemberton Total	0.	.30	6.98	11.97	581
Industrial Park **	0	.19	6.92	12.60	23
Well #2			6.37	10.70	33
Well #3			6.24	11.60	26
17-Sep-24					
Pemberton					
Health Centre	0	.24	7.03	10.70	84
Oak St	0	.32	6.94	11.90	81
Plateau/Ridge	0	.29	6.98	11.00	82
Village Office	0	.20	6.99	12.60	84
WWTP	0	.10	7.05	10.60	89
PNWS - Meadows Rd *	0	.28	6.93	10.30	82
PNWS - Farm Rd *	0	.21	6.93	11.50	83
Pemberton Total	0.	.23	6.98	11.23	585
Industrial Park **	0	.01	6.95	10.80	26
Well #2			6.41	10.70	43
Well #3			6.23	11.00	22
23-Sep-24					
Pemberton					
Health Centre	0.	.18	7.03	13.90	66
Plateau/Ridge	0.	.26	7.01	12.50	77
Village Office	0.	.16	7.03	12.20	71
WWTP	0.	.03	6.98	10.70	72
Pemberton Total	0.	.16	7.01	12.33	286
Farm Rd	0	.20	6.90	12.70	
Well#2			6.36	11.10	
Well#3			6.19	10.60	
Oak	0	.32	6.97	10.10	76
Medows					
Medows		.30	6.95	10.60	
(blank)		.30	6.95	10.60	
Medows Total		.30	6.95	10.60	
I.P	0	.21	6.91	11.30	26
2-Oct-24					

^{*} Pemberton North Water Service is a continuation of the Pemberton Water distribution system within Squamish Lilloeet Regional District Area C

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

	Chlorine			
Source	Residual	nН	Temperature (C)	Sum of Alkalinity
Pemberton	ricoradar	PIT	remperature (e)	Juli of Alkalility
Health Centre	0.31	6.96	13.40	79
	0.31	6.94	10.80	80
Plateau/Ridge Village Office	0.27	7.02	10.80	74
WWTP	0.24	6.93	9.90	78
Pemberton Total	0.19	6.93		311
Farm Rd	0.25	6.88	11.70	79
Well#2	0.23	6.40	10.40	34
Well#3		6.31	10.40	24
Oak	0.40	6.95	10.80	73
I.P	0.40	6.95	10.50	25
Meadows	0.01	6.93	11.80	70
	0.30	6.93	11.80	70
9-Oct-24				
Pemberton	0.20	6.04	12.00	7.5
Health Centre	0.29	6.84	12.80	75
Plateau/Ridge	0.28	6.88	10.50	79
Village Office	0.27	6.93	10.30	78
WWTP	0.20	6.97	8.80	82
Pemberton Total	0.26	6.91	10.60	314
Farm Rd	0.27	6.80	8.90	73
Well#2		6.37	10.80	39
Well#3		6.25	9.60	22
Oak	0.36	6.87	10.50	76
I.P	0.19	6.88	10.40	21
Meadows	0.32	6.84	9.50	75
15-Oct-24				
Pemberton				
Health Centre	0.27	6.89	13.40	81
Plateau/Ridge	0.25	6.97		
Village Office	0.21	6.98		
WWTP	0.14			78
Pemberton Total	0.22	6.95		
Farm Rd	0.26	6.88	13.10	90
Well#2		6.42	11.30	43
Well#3		6.24	9.30	29
Oak	0.33	6.95	9.30	80
I.P	0.23	6.82	12.30	29
Meadows	0.29	6.89	11.10	79
22-Oct-24				
Pemberton				
Health Centre	0.33	6.72	11.80	60
Plateau/Ridge	0.32	6.77		
Village Office	0.18	6.89	8.80	
WWTP	0.07	6.86	9.80	82

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	Chlorine			
Source	Residual	На	Temperature (C)	Sum of Alkalinity
Pemberton Total	0.23	6.81	10.18	
Farm Rd	0.33	6.63	10.80	
Well#2		6.38	11.10	46
Well#3		6.25	9.20	27
Oak	0.43	6.66	9.40	57
I.P	0.19	6.81	9.90	21
Meadows	0.41	6.65	10.60	56
28-Oct-24				
Pemberton				
Health Centre	0.37	7.00	12.20	87
Plateau/Ridge	0.33	6.90	11.70	82
Village Office	0.23	7.01	9.50	87
WWTP	0.17	6.62	10.90	56
Pemberton Total	0.28	6.88	11.08	312
Farm Rd	0.29	6.87	12.00	86
Well#2		6.38	10.00	45
Well#3		6.21	9.60	28
Oak	0.40	6.96	10.30	86
I.P	0.22	6.86	9.70	
Meadows	0.31	6.92	9.60	84
5-Nov-24				
Pemberton				
Health Centre	0.30	7.14	12.50	92
Plateau/Ridge	0.37	7.10	10.50	96
Village Office	0.26	7.14	8.80	104
WWTP	0.22	7.07	10.90	91
Pemberton Total	0.29	7.11	10.68	383
Farm Rd	0.33	7.09	11.30	
Well#2		6.39		
Well#3		6.20		
Oak	0.38	7.13		
I.P	0.20	6.90		
Meadows	0.32	7.10	10.70	87
12-Nov-24				
Pemberton				
Health Centre	0.27	7.18		
Plateau/Ridge	0.30	7.13		
Village Office	0.30	7.16		
WWTP	0.13	7.16		
Pemberton Total	0.25	7.16		
Farm Rd	0.29	7.10		
Well#2		6.35		
Well#3	0.00	6.22		
Oak	0.36	7.11	9.20	100

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	Chlorine				
Source	Residual		На	Temperature (C)	Sum of Alkalinity
I.P		0.21	6.89	9.80	28
Meadows		0.32	7.07	11.80	99
19-Nov-24		0.02	7.07	22.00	
Pemberton					
Health Centre		0.35	7.23	12.10	89
Plateau/Ridge		0.37	7.25	9.60	93
Village Office		0.32	7.24	9.90	93
WWTP		0.10	7.23	8.40	100
Pemberton Total		0.29	7.24	10.00	375
Farm Rd		0.37	7.22	9.50	83
Well#2			6.54	9.10	38
Well#3			6.34	8.50	24
Oak		0.41	7.26	8.90	91
I.P		0.17	7.06	9.80	26
Meadows		0.37	7.22	9.60	93
25-Nov-24					
Pemberton					
Health Centre		0.39	7.19	9.30	80
Plateau/Ridge		0.37	7.17	9.60	81
Village Office		0.29	7.20	8.70	83
WWTP		0.11	7.23	8.80	96
Pemberton Total		0.29	7.20	9.10	340
Farm Rd					
Well#2			6.50	9.60	43
Well#3			6.35	9.00	26
Oak		0.41	7.17	7.70	85
I.P		0.19	7.00	10.10	25
Meadows					
2-Dec-24					
Pemberton					
Health Centre		0.35	7.19	11.20	79
Plateau/Ridge		0.37	7.19		79
Village Office		0.25	7.22	7.80	83
WWTP		0.18	7.18	10.90	81
Pemberton Total		0.29	7.20		322
Farm Rd		0.32	7.16	7.90	75
Well#2			6.57	9.10	42
Well#3		_	6.34	10.90	27
Oak		0.38	7.18	7.90	81
I.P		0.23	7.04	8.40	22
Nacadovica	I	0.32	7.15	8.90	77
Meadows					
10-Dec-24					
		0.40	7.18	10.20	91

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	Chlorine				
Source	Residual		рН	Temperature (C)	Sum of Alkalinity
Plateau/Ridge		0.36	7.20	9.20	93
Village Office		0.31	7.21	8.00	83
WWTP		0.26	7.12	8.30	90
Pemberton Total		0.33	7.18	8.93	357
Farm Rd		0.34	7.21	9.20	83
Well#2					
Well#3			6.28	9.90	17
Oak		0.41	7.19	10.20	85
I.P		0.18	7.03	9.60	22
Meadows					
17-Dec-24					
Pemberton					
Health Centre		0.39	7.18	8.30	89
Plateau/Ridge		0.41	7.15	7.70	71
Village Office		0.31	7.17	7.40	94
WWTP		0.05	7.17	10.30	96
Pemberton Total		0.29	7.17	8.43	350
Farm Rd					
Well#2			6.43	9.30	29
Well#3			6.24	9.60	22
Oak		0.44	7.11	8.30	78
I.P		0.24	6.92	9.80	22
Meadows					

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Appendix IV

2024 Weekly VCH Bacteriological Results

Vancouver Coastal Health

Facility Name: Pemberton Industrial Park Water System

Date Range: Jan 1 2024 to Dec 31 2024

Operator Reece Clark

Box 100

Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Yard Hydrant,				
Pemberton Industria	1			
Park	<u>41 </u>			
<u></u>	1/3/2024 7:40:00 AM	LT1	LT1	
	1/10/2024 7:40:00	LT1	LT1	
	AM			
	1/15/2024 7:40:00	LT1	LT1	
	AM			
	1/24/2024 7:40:00	LT1	LT1	
	AM			
	1/29/2024 7:40:00	LT1	LT1	
	AM			
	2/6/2024 7:40:00 AM	LT1	LT1	
	2/12/2024 7:40:00	LT1	LT1	
	AM			
	2/21/2024 7:40:00	LT1	LT1	
	AM			
	2/27/2024 7:40:00	LT1	LT1	
	AM	1.74	1.74	
	3/5/2024 7:30:00 AM	LT1	LT1	
	3/11/2024 8:40:00	LT1	LT1	
	AM	1 174	1.74	
	3/19/2024 7:40:00	LT1	LT1	
	AM	I T4	I T4	
	3/25/2024 7:40:00 AM	LT1	LT1	
	4/3/2024 7:40:00 AM	LT1	LT1	
	4/8/2024 7:40:00 AM	LT1	LT1	
	4/16/2024 7:40:00 AW	LT1	LT1	
	4/10/2024 7.40.00 AM	LII	LII	
	4/22/2024 7:40:00	LT1	LT1	
	AM	LII	L11	
	5/1/2024 7:40:00 AM	LT1	LT1	
	5/6/2024 7:40:00 AM	LT1	LT1	
	5/14/2024 7:40:00	LT1	LT1	
	AM			
	5/22/2024 7:40:00	LT1	LT1	
	AM			
	5/28/2024 7:40:00	LT1	LT1	
	AM			
	6/4/2024 7:40:00 AM	LT1	LT1	

6/10/2024 7:40:00	LT1	LT1
AM 6/17/2024 7:40:00 AM	LT1	LT1
6/25/2024 7:40:00 AM	LT1	LT1
7/3/2024 7:40:00 AM	LT1	LT1
7/8/2024 7:40:00 AM	LT1	LT1
7/16/2024 8:00:00 AM	LT1	LT1
7/23/2024 7:40:00 AM	LT1	LT1
7/29/2024 7:40:00	LT1	LT1
AM 8/13/2024 7:40:00	LT1	LT1
AM	1.74	1.74
8/20/2024 7:40:00 AM	LT1	LT1
8/26/2024 7:40:00	LT1	LT1
AM	1.74	1.74
9/4/2024 7:40:00 AM 9/9/2024 7:40:00 AM	LT1	LT1
9/17/2024 7:40:00 AM	LT1 LT1	LT1 LT1
9/17/2024 7.40.00 AM	LII	LII
9/23/2024 7:40:00	LT1	LT1
AM 10/2/2024 7:40:00	LT1	LT1
AM 10/9/2024 7:40:00	LT1	LT1
AM	1.74	1.74
10/15/2024 7:40:00 AM	LT1	LT1
10/22/2024 7:40:00 AM	LT1	LT1
10/28/2024 7:40:00	LT1	LT1
AM 11/5/2024 7:40:00	LT1	LT1
AM	I T4	1 174
11/12/2024 7:40:00 AM	LT1	LT1
11/19/2024 7:40:00 AM	LT1	LT1
11/25/2024 7:40:00	LT1	LT1
AM		
12/2/2024 7:40:00 AM	LT1	LT1
12/10/2024 7:40:00	LT1	LT1
AM 12/17/2024 7:40:00	LT1	<u>LT1</u>
AM	<u></u>	
Total Positive:	0	0

Result Values:	E - estimated	L - less than	G - greater than	
Samples that contain to	tal 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	0	
contain total coliform:		
Number of samples that contain total	0/0	
coliform in last 30 days:		
Total number of samples:	50	

Comments:

Environmental Health Officer Feb 5 2025

Vancouver Coastal Health

Facility Name: Pemberton North Water System **Date Range:** Jan 1 2024 to Dec 31 2024

Operator Utilities Department-SLRD

P.O. Box 219

Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
		-		_
1428 Pemberton Farm Road, Adjacent to 1428				
Pemberton Farm				
<u>Road</u>				
	1/3/2024 8:10:00 AM 1/10/2024 8:00:00	LT1 LT1	LT1 LT1	
	1/10/2024 8.00.00 AM	LII	LII	
	1/24/2024 8:20:00	LT1	LT1	
	AM			
	1/29/2024 8:10:00	LT1	LT1	
	AM 2/6/2024 8:30:00 AM	LT1	LT1	
	2/12/2024 8:10:00	LT1	LT1	
	AM	211		
	2/21/2024 8:40:00	LT1	LT1	
	AM	1.74	1.74	
	2/27/2024 8:00:00 AM	LT1	LT1	
	3/11/2024 7:40:00	LT1	LT1	
	AM			
	3/19/2024 8:10:00	LT1	LT1	
	AM	LT1	LT1	
	3/25/2024 8:40:00 AM	LII	LII	
	4/3/2024 8:10:00 AM	LT1	LT1	
	4/8/2024 8:40:00 AM	LT1	LT1	
	4/16/2024 8:10:00	LT1	LT1	
	AM			
	4/22/2024 8:40:00 AM	LT1	LT1	
	5/1/2024 8:31:00 AM	LT1	LT1	
	5/6/2024 8:40:00 AM	LT1	LT1	
	5/14/2024 8:10:00	LT1	LT1	
	AM			
	5/22/2024 8:10:00	LT1	LT1	
	AM 5/28/2024 8:40:00	LT1	LT1	
	5/28/2024 8:40:00 AM	LII	LII	
	6/4/2024 8:40:00 AM	LT1	LT1	
	6/10/2024 8:10:00	LT1	LT1	

	AM		
	6/17/2024 8:31:00 AM	LT1	LT1
	6/25/2024 8:31:00 AM	LT1	LT1
	7/3/2024 8:29:00 AM	LT1	LT1
	7/8/2024 8:10:00 AM		LT1
	7/16/2024 8:50:00 AM	LT1	LT1
	7/23/2024 8:40:00 AM	LT1	LT1
	7/29/2024 8:40:00 AM	LT1	LT1
	8/13/2024 8:10:00 AM	LT1	LT1
	8/20/2024 8:10:00 AM	LT1	LT1
	8/26/2024 8:40:00 AM	LT1	LT1
	9/4/2024 8:10:00 AM	LT1	LT1
	9/9/2024 8:10:00 AM	LT1	LT1
	9/17/2024 8:40:00 AM	LT1	LT1
	9/23/2024 8:10:00 AM	LT1	LT1
	10/2/2024 8:40:00 AM	LT1	LT1
	10/9/2024 8:10:00 AM	LT1	LT1
	10/22/2024 8:40:00 AM	LT1	LT1
	10/28/2024 8:40:00 AM	LT1	LT1
	11/5/2024 8:40:00 AM	LT1	LT1
	11/12/2024 8:10:00 AM	LT1	LT1
	11/19/2024 8:40:00 AM	LT1	LT1
	12/2/2024 8:10:00 AM	LT1	LT1
	12/10/2024 8:20:00 AM	<u>LT1</u>	<u>LT1</u>
	Total Positive:	0	0
7620 Pemberton Meadows Rd, Opposite 7620 Pemberton Meadows Rd			
Meadows Rd	1/3/2024 8:00:00 AM 1/24/2024 8:10:00	LT1 LT1	LT1 LT1
	AM	I T4	1 74
	1/29/2024 8:00:00	LT1	LT1

0.04		
AM 2/6/2024 8:50:00 AM	LT1	LT1
2/12/2024 8:00:00	LT1	LT1
AM	211	211
2/21/2024 8:30:00	LT1	LT1
AM		
3/11/2024 9:30:00	LT1	LT1
AM 3/19/2024 8:00:00	LT1	LT1
3/19/2024 8.00.00 AM	LII	LII
3/25/2024 8:30:00	LT1	LT1
AM		
4/3/2024 8:00:00 AM	LT1	LT1
4/8/2024 8:29:00 AM	LT1	LT1
4/16/2024 8:00:00 AM	LT1	LT1
4/22/2024 8:30:00	LT1	LT1
AM		
5/1/2024 8:20:00 AM	LT1	LT1
5/6/2024 8:31:00 AM	LT1	LT1
5/14/2024 8:10:00 AM	LT1	LT1
5/22/2024 8:00:00	LT1	LT1
AM	LII	LII
5/28/2024 8:30:00	LT1	LT1
AM		
6/4/2024 8:29:00 AM	LT1	LT1
6/10/2024 8:00:00 AM	LT1	LT1
6/17/2024 8:20:00	LT1	LT1
AM	211	211
6/25/2024 8:20:00	LT1	LT1
AM		
7/3/2024 8:20:00 AM 7/8/2024 8:00:00 AM	LT1 LT1	LT1 LT1
7/16/2024 8:40:00	LT1	LT1
AM	E111	E11
7/23/2024 8:30:00	LT1	LT1
AM		
7/29/2024 8:31:00	LT1	LT1
AM 8/13/2024 8:00:00	LT1	LT1
6/13/2024 8.00.00 AM	LII	LII
8/20/2024 8:00:00	LT1	LT1
AM		
8/26/2024 8:31:00	LT1	LT1
AM 9/4/2024 8:00:00 AM	1.74	1.71
9/9/2024 8:00:00 AM	LT1 LT1	LT1 LT1
9/17/2024 8:31:00	LT1	LT1
AM		
9/23/2024 8:00:00	LT1	LT1
AM	1.74	
10/2/2024 8:30:00 AM	LT1	LT1
Aivi		

10/9/2024 8:00:00	LT1	LT1
AM 10/15/2024 8:00:00	LT1	LT1
AM 10/22/2024 8:30:00 AM	LT1	LT1
10/28/2024 8:30:00	LT1	LT1
AM 11/5/2024 8:30:00	LT1	LT1
AM 11/12/2024 8:00:00	LT1	LT1
AM 11/19/2024 8:31:00	LT1	LT1
AM 12/2/2024 8:00:00	<u>LT1</u>	<u>LT1</u>
AM Total Positive:	0	0

Result Values:	E - estimated		L - less than	G - greater than	
Samples that contain	n total coliform:	0		0.00% of total	
Samples that contain	n e. coli:	0		0.00% of total	
Samples that contain	n fecal coliform:	0		0.00% of total	
Number of consecu contain total coliforn	•	0			
Number of samples coliform in last 30 d		0/0			
Total number of sar	nples:	88			

Comments:

Environmental Health Officer Feb 5 2025

Vancouver Coastal Health

Facility Name: Village of Pemberton

Date Range: Jan 1 2024 to Dec 31 2024

Operator Reece Clark

P.O. Box 100

Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Treatment Plant/Airport Rd., Pemberton				
remberton	1/3/2024 7:30:00 AM	LT1	LT1	
	1/10/2024 7:30:00 AM	LT1	LT1	
	1/15/2024 7:30:00 AM	LT1	LT1	
	1/24/2024 7:30:00 AM	LT1	LT1	
	1/29/2024 7:30:00 AM	LT1	LT1	
	2/6/2024 7:30:00 AM	LT1	LT1	
	2/12/2024 7:30:00 AM	LT1	LT1	
	2/21/2024 7:30:00 AM	LT1	LT1	
	2/27/2024 7:30:00 AM	LT1	LT1	
	3/5/2024 7:30:00 AM	LT1	LT1	
	3/11/2024 8:30:00 AM	LT1	LT1	
	3/19/2024 7:30:00 AM	LT1	LT1	
	3/25/2024 7:30:00 AM	LT1	LT1	
	4/3/2024 7:30:00 AM	LT1	LT1	
	4/8/2024 7:30:00 AM	LT1	LT1	
	4/16/2024 7:30:00 AM	LT1	LT1	
	4/22/2024 7:30:00 AM	LT1	LT1	
	5/1/2024 7:30:00 AM	LT1	LT1	
	5/6/2024 7:30:00 AM	LT1	LT1	
	5/14/2024 7:30:00 AM	LT1	LT1	
	5/22/2024 7:30:00 AM	LT1	LT1	
	5/28/2024 7:30:00 AM	LT1	LT1	
	6/4/2024 7:30:00 AM	LT1	LT1	

6/10/2024 7:30:00	LT1	LT1
AM 6/17/2024 9:30:00 AM	LT1	LT1
6/25/2024 7:30:00 AM	LT1	LT1
7/3/2024 7:30:00 AM	LT1	LT1
7/8/2024 7:30:00 AM	LT1	LT1
7/16/2024 7:30:00 7(W	LT1	LT1
AM		
7/23/2024 7:30:00 AM	LT1	LT1
7/29/2024 7:30:00	LT1	LT1
AM		
8/14/2024 7:30:00	LT1	LT1
AM		
8/20/2024 7:30:00 AM	LT1	LT1
8/26/2024 7:30:00	LT1	LT1
AM		
9/4/2024 7:30:00 AM	LT1	LT1
9/9/2024 7:30:00 AM	LT1	LT1
9/17/2024 7:30:00	LT1	LT1
9/17/2024 7.30.00 AM	LII	LII
9/23/2024 7:30:00	LT1	LT1
AM	LII	LII
10/2/2024 7:30:00	LT1	LT1
10/2/2024 7.30.00 AM	LII	LII
* ****	1.74	1 74
10/9/2024 7:30:00	LT1	LT1
AM	1.74	1.74
10/15/2024 7:30:00	LT1	LT1
AM		
10/22/2024 7:30:00	LT1	LT1
AM		
10/26/2024 7:30:00	LT1	LT1
AM		
10/28/2024 7:30:00	LT1	LT1
AM		
11/12/2024 7:30:00	LT1	LT1
AM		
11/19/2024 7:30:00	LT1	LT1
AM	L11	
11/25/2024 7:30:00	LT1	LT1
11/25/2024 7.30.00 AM	LII	LII
	1.74	1.74
12/2/2024 7:30:00	LT1	LT1
AM	1 = 4	
12/10/2024 7:30:00	LT1	LT1
AM		
12/17/2024 7:30:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	0

Oak Street At High School, Pemberton

1/3/2024 8:20:00 AM 1/10/2024 8:10:00	LT1 LT1	LT1 LT1
AM 1/15/2024 8:00:00 AM	LT1	LT1
1/24/2024 8:00:00 AM	LT1	LT1
1/29/2024 8:20:00 AM	LT1	LT1
2/6/2024 8:40:00 AM 2/12/2024 8:20:00 AM	LT1 LT1	LT1 LT1
2/21/2024 8:50:00 AM	LT1	LT1
2/27/2024 8:10:00 AM	LT1	LT1
3/5/2024 8:00:00 AM 3/11/2024 9:50:00 AM	LT1 LT1	LT1 LT1
3/19/2024 8:20:00 AM	LT1	LT1
3/25/2024 8:50:00 AM	LT1	LT1
4/3/2024 8:20:00 AM	LT1	LT1
4/8/2024 8:50:00 AM	LT1	LT1
4/16/2024 8:20:00	LT1	LT1
AM 4/22/2024 8:50:00 AM	LT1	LT1
5/1/2024 8:40:00 AM	LT1	LT1
5/6/2024 8:50:00 AM	LT1	LT1
5/14/2024 8:20:00	LT1	LT1
AM		
5/22/2024 8:20:00	LT1	LT1
AM 5/28/2024 8:50:00 AM	LT1	LT1
6/4/2024 8:50:00 AM	LT1	LT1
6/10/2024 8:20:00	LT1	LT1
AM 6/17/2024 8:40:00	LT1	LT1
AM		
6/25/2024 8:40:00 AM	LT1	LT1
7/3/2024 8:40:00 AM	LT1	LT1
7/8/2024 8:20:00 AM	LT1	LT1
7/16/2024 8:31:00	LT1	LT1
AM 7/23/2024 8:50:00 AM	LT1	LT1
7/29/2024 8:50:00 AM	LT1	LT1
8/13/2024 8:20:00 AM	LT1	LT1
8/20/2024 8:20:00	LT1	LT1

	0.04		
8/2	AM 26/2024 8:50:00 AM	LT1	LT1
9/4/	2024 8:20:00 AM	LT1	LT1
	2024 8:20:00 AM		LT1
9/	17/2024 8:50:00 AM	LT1	LT1
9/2	23/2024 8:20:00 AM	LT1	LT1
10	0/2/2024 8:50:00 AM	LT1	LT1
10)/9/2024 8:20:00 AM	LT1	LT1
10/	/15/2024 8:20:00 AM	LT1	LT1
10	/22/2024 8:50:00 AM	LT1	LT1
10/	/28/2024 8:50:00 AM	LT1	LT1
11	/5/2024 8:50:00 AM	LT1	LT1
11/	/12/2024 8:20:00 AM	LT1	LT1
11/	/19/2024 8:50:00 AM	LT1	LT1
11/	/25/2024 8:00:00 AM	LT1	LT1
12	2/2/2024 8:20:00 AM	LT1	LT1
12	/10/2024 8:31:00 AM	LT1	LT1
	/17/2024 8:10:00 AM	<u>LT1</u>	<u>LT1</u>
-	Total Positive:	0	0
Pemberton Ridge Pumphouse, Pemberton			
	2024 7:50:00 AM 10/2024 7:50:00 AM	LT1 LT1	LT1 LT1
1/	15/2024 7:50:00 AM	LT1	LT1
1/2	24/2024 7:50:00 AM	LT1	LT1
1/2	29/2024 7:50:00 AM	LT1	LT1
2/6/	2024 7:50:00 AM	LT1	LT1
2/	12/2024 7:50:00 AM	LT1	LT1
2/3	21/2024 7:50:00 AM	LT1	LT1
2/3	27/2024 7:50:00 AM	LT1	LT1

3/5/2024 7:50:00 AM 3/11/2024 8:30:00	LT1 LT1	LT1 LT1
AM 3/19/2024 7:50:00	LT1	LT1
AM 3/25/2024 7:50:00	LT1	LT1
AM 4/3/2024 7:50:00 AM 4/8/2024 7:50:00 AM	LT1 LT1	LT1 LT1
4/16/2024 7:50:00 AM 4/16/2024 7:50:00 AM	LT1	LT1
4/22/2024 7:50:00 AM	LT1	LT1
5/1/2024 7:50:00 AM 5/6/2024 7:50:00 AM	LT1 LT1	LT1 LT1
5/14/2024 7:50:00 AM 5/14/2024 7:50:00 AM	LT1	LT1
5/22/2024 7:50:00 AM	LT1	LT1
5/28/2024 7:50:00 AM	LT1	LT1
6/4/2024 7:30:00 AM	LT1	LT1
6/10/2024 7:50:00 AM	LT1	LT1
6/17/2024 7:50:00 AM	LT1	LT1
6/25/2024 7:50:00 AM	LT1	LT1
7/3/2024 7:50:00 AM	LT1	LT1
7/8/2024 7:50:00 AM	LT1	LT1
7/16/2024 8:10:00 AM	LT1	LT1
7/23/2024 7:50:00 AM	LT1	LT1
7/29/2024 7:50:00 AM	LT1	LT1
8/13/2024 7:50:00 AM	LT1	LT1
8/20/2024 7:50:00 AM	LT1	LT1
8/26/2024 7:50:00 AM	LT1	LT1
9/4/2024 7:50:00 AM	LT1	LT1
9/9/2024 7:50:00 AM	LT1	LT1
9/17/2024 7:50:00 AM	LT1	LT1
9/23/2024 7:50:00 AM	LT1	LT1
10/2/2024 7:50:00 AM	LT1	LT1
10/9/2024 7:50:00 AM	LT1	LT1
10/15/2024 7:50:00 AM	LT1	LT1
10/22/2024 7:30:00	LT1	LT1

	AM		
	10/28/2024 7:50:00 AM	LT1	LT1
	11/5/2024 7:50:00 AM	LT1	LT1
	11/12/2024 7:50:00 AM	LT1	LT1
	11/19/2024 7:50:00 AM	LT1	LT1
	11/25/2024 7:30:00 AM	LT1	LT1
	12/2/2024 7:50:00 AM	LT1	LT1
	12/10/2024 7:50:00 AM	LT1	LT1
	12/17/2024 7:50:00 AM	<u>LT1</u>	<u>LT1</u>
	Total Positive:	0	0
Pemberton Health Center, 1403 Portage Road, Pemberton, B.C.			
<u> </u>	1/3/2024 9:00:00 AM 1/10/2024 8:50:00	LT1 LT1	LT1 LT1
	AM 1/15/2024 8:40:00 AM	LT1	LT1
	1/24/2024 9:00:00 AM	LT1	LT1
	1/29/2024 9:00:00 AM	LT1	LT1
	2/6/2024 9:00:00 AM	LT1	LT1
	2/12/2024 9:00:00 AM	LT1	LT1
	2/21/2024 8:00:00 AM	LT1	LT1
	2/27/2024 8:50:00 AM	LT1	LT1
	3/5/2024 8:40:00 AM	LT1	LT1
	3/11/2024 10:00:00 AM	LT1	LT1
	3/19/2024 9:00:00 AM	LT1	LT1
	3/25/2024 9:00:00 AM	LT1	LT1
	4/3/2024 9:00:00 AM	LT1	LT1
	4/8/2024 9:00:00 AM	LT1	LT1
	4/16/2024 9:00:00 AM	LT1	LT1
	4/22/2024 9:00:00 AM	LT1	LT1
	5/1/2024 8:50:00 AM 5/6/2024 9:00:00 AM	LT1 LT1	LT1 LT1

5/14/2024 9:10:00 AM	LT1	LT1
5/22/2024 9:10:00 AM	LT1	LT1
5/28/2024 9:10:00 AM	LT1	LT1
6/4/2024 9:10:00 AM	1.74	I T4
6/10/2024 9:10:00 AW AM	LT1 LT1	LT1 LT1
6/17/2024 9:10:00 AM	LT1	LT1
6/25/2024 9:00:00 AM	LT1	LT1
7/3/2024 9:00:00 AM	LT1	LT1
7/8/2024 9:10:00 AM	LT1	LT1
7/16/2024 9:10:00 AM	LT1	LT1
7/23/2024 9:10:00 AM	LT1	LT1
7/29/2024 9:10:00 AM	LT1	LT1
8/13/2024 9:10:00 AM	LT1	LT1
8/20/2024 9:10:00 AM	LT1	LT1
8/26/2024 9:10:00 AM	LT1	LT1
9/4/2024 9:10:00 AM	LT1	LT1
9/9/2024 9:10:00 AM	LT1	LT1
9/17/2024 9:10:00 AM	LT1	LT1
9/23/2024 9:10:00 AM	LT1	LT1
10/2/2024 9:10:00 AM	LT1	LT1
10/9/2024 9:00:00 AM	LT1	LT1
10/15/2024 9:00:00 AM	LT1	LT1
10/22/2024 9:00:00 AM	LT1	LT1
10/28/2024 9:00:00 AM	LT1	LT1
11/5/2024 9:00:00 AM	LT1	LT1
11/12/2024 9:00:00 AM	LT1	LT1
11/19/2024 9:00:00 AM	LT1	LT1
11/25/2024 8:40:00 AM	LT1	LT1
12/2/2024 9:00:00 AM	LT1	LT1
12/10/2024 8:40:00 AM	LT1	LT1

	12/17/2024 8:30:00	LT1	<u>LT1</u>
	AM Total Positive:	0	0
Village Office, 741 Prospect	0_		
<u>, 100poot</u>	1/3/2024 8:30:00 AM 1/10/2024 8:20:00 AM	LT1 LT1	LT1 LT1
	1/15/2024 8:10:00 AM	LT1	LT1
	1/24/2024 8:30:00 AM	LT1	LT1
	1/29/2024 8:30:00 AM	LT1	LT1
	2/6/2024 8:20:00 AM 2/12/2024 8:30:00 AM	LT1 LT1	LT1 LT1
	2/21/2024 8:20:00 AM	LT1	LT1
	2/27/2024 8:20:00 AM	LT1	LT1
	3/5/2024 8:30:00 AM	LT1	LT1
	3/11/2024 9:00:00 AM	LT1	LT1
	3/19/2024 8:30:00 AM	LT1	LT1
	3/25/2024 8:00:00 AM	LT1	LT1
	4/3/2024 8:29:00 AM	LT1	LT1
	4/8/2024 8:20:00 AM	LT1	LT1
	4/16/2024 8:30:00 AM	LT1	LT1
	4/22/2024 8:20:00 AM	LT1	LT1
	5/6/2024 8:20:00 AM	LT1	LT1
	5/14/2024 8:30:00 AM	LT1	LT1
	5/22/2024 8:31:00 AM	LT1	LT1
	5/28/2024 8:00:00 AM	LT1	LT1
	6/4/2024 8:20:00 AM	LT1	LT1
	6/10/2024 8:29:00	LT1	LT1
	AM		
	6/17/2024 8:50:00 AM	LT1	LT1
	6/25/2024 8:10:00 AM	LT1	LT1
	7/3/2024 8:10:00 AM	LT1	LT1
	7/8/2024 8:50:00 AM	LT1	LT1
	7/16/2024 9:00:00 AM	LT1	LT1
	7/23/2024 8:20:00	LT1	LT1

AM		
7/29/2024 8:20:00	LT1	LT1
AM		
8/13/2024 8:30:00 AM	LT1	LT1
8/20/2024 8:50:00	LT1	LT1
AM		
8/26/2024 8:20:00 AM	LT1	LT1
9/4/2024 8:50:00 AM	LT1	LT1
9/9/2024 8:30:00 AM	LT1	LT1
9/17/2024 8:20:00 AM	LT1	LT1
9/23/2024 8:29:00 AM	LT1	LT1
10/2/2024 8:20:00	LT1	LT1
10/2/2024 6.20.00 AM	LII	LII
10/9/2024 8:30:00	LT1	LT1
AM		
10/15/2024 8:50:00 AM	LT1	LT1
10/22/2024 8:00:00	LT1	LT1
AM	LII	LII
10/28/2024 8:00:00	LT1	LT1
AM		
11/5/2024 8:20:00	LT1	LT1
AM		
11/12/2024 8:31:00 AM	LT1	LT1
11/19/2024 8:00:00	LT1	LT1
AM		
11/25/2024 8:10:00 AM	LT1	LT1
	1.74	1.74
12/2/2024 8:30:00 AM	LT1	LT1
12/10/2024 8:10:00	LT1	LT1
AM		
12/17/2024 8:10:00	<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 Samples that contain e. co	oli: 0		0.00% of total 0.00% of total
Samples that contain feca Number of consecutive sa contain total coliform:	1		0.00% of total
Number of samples that coliform in last 30 days:			
Total number of samples:	249		

Comments:

Environmental Health Officer Feb 5 2025

Vancouver Coastal Health

Facility Name: Well # 2

Date Range: Jan 1 2024 to Dec 31 2024

Operator

,

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Well Site #2, Pemberton Village				
Water Works,				
Pemberton				
	1/3/2024 8:40:00 AM	LT1	LT1	
	1/10/2024 8:30:00 AM	LT1	LT1	
	1/15/2024 8:20:00 AM	LT1	LT1	
	1/24/2024 8:40:00	LT1	LT1	
	AM		1.74	
	1/29/2024 8:40:00 AM	LT1	LT1	
	2/6/2024 8:00:00 AM	LT1	LT1	
	2/12/2024 8:40:00 AM	LT1	LT1	
	2/21/2024 8:00:00 AM	LT1	LT1	
	2/27/2024 8:30:00 AM	LT1	LT1	
	3/5/2024 8:10:00 AM	LT1	LT1	
	3/11/2024 9:10:00	LT1	LT1	
	AM	I T4	I T 4	
	3/19/2024 8:40:00 AM	LT1	LT1	
	3/25/2024 8:10:00 AM	LT1	LT1	
	4/3/2024 8:40:00 AM	LT1	LT1	
	4/8/2024 8:00:00 AM	LT1	LT1	
	4/16/2024 8:40:00 AM	LT1	LT1	
	4/22/2024 8:00:00 AM	LT1	LT1	
	5/1/2024 8:00:00 AM	LT1	LT1	
	5/6/2024 8:10:00 AM	LT1	LT1	
	5/14/2024 8:40:00	LT1	LT1	
	AM 5/22/2024 8:40:00 AM	LT1	LT1	
	5/28/2024 8:10:00 AM	LT1	LT1	

6/4/2024 8:00:00 AM 6/10/2024 8:40:00	LT1 LT1	LT1 LT1
AM 6/17/2024 8:00:00	LT1	LT1
AM 6/25/2024 8:00:00 AM	LT1	LT1
7/3/2024 8:00:00 AM 7/8/2024 8:30:00 AM	LT1 LT1	LT1 LT1
7/16/2024 7:40:00 AM	LT1	LT1
7/23/2024 8:00:00 AM	LT1	LT1
7/29/2024 8:00:00 AM	LT1	LT1
8/13/2024 8:40:00 AM	LT1	LT1
8/20/2024 8:29:00 AM	LT1	LT1
8/26/2024 8:00:00 AM	LT1	LT1
9/4/2024 8:29:00 AM	LT1	LT1
9/9/2024 8:40:00 AM	LT1	LT1
9/13/2024 8:40:00 AM	LT1	LT1
9/17/2024 8:00:00 AM	LT1	LT1
10/2/2024 8:00:00 AM	LT1	LT1
10/9/2024 8:40:00 AM	LT1	LT1
10/15/2024 8:31:00 AM	LT1	LT1
10/22/2024 8:10:00 AM	LT1	LT1
10/28/2024 8:10:00 AM	LT1	LT1
11/5/2024 8:00:00 AM	LT1	LT1
11/12/2024 8:40:00 AM	LT1	LT1
11/19/2024 8:10:00 AM	LT1	LT1
11/25/2024 8:20:00 AM	LT1	LT1
12/2/2024 8:29:00 AM	LT1	LT1
12/17/2024 8:40:00 AM	<u>LT1</u>	LT1
Total Positive:	0	0

Result Values:	E - estimated	L - less than	G - greater than	
Samples that contain total of Samples that contain e. col			0.00% of total 0.00% of total	

Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that	0	
contain total coliform:		
Number of samples that contain total	0/0	
coliform in last 30 days:		
Total number of samples:	49	

Comments:

Environmental Health Officer Feb 5 2025

Vancouver Coastal Health

Well #3

Facility Name: Date Range: Jan 1 2024 to Dec 31 2024

Operator

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Well Site #3, Pemberton				
	1/3/2024 8:50:00 AM	LT1	LT1	
	1/10/2024 8:40:00 AM	LT1	LT1	
	1/15/2024 8:30:00 AM	LT1	LT1	
	1/24/2024 8:50:00 AM	LT1	LT1	
	1/29/2024 8:50:00 AM	LT1	LT1	
	2/6/2024 8:10:00 AM	LT1	LT1	
	2/12/2024 8:50:00 AM	LT1	LT1	
	2/21/2024 8:10:00 AM	LT1	LT1	
	2/27/2024 8:40:00 AM	LT1	LT1	
	3/5/2024 8:20:00 AM	LT1	LT1	
	3/11/2024 9:20:00 AM	LT1	LT1	
	3/19/2024 8:50:00 AM	LT1	LT1	
	3/25/2024 8:20:00 AM	LT1	LT1	
	4/3/2024 8:50:00 AM	LT1	LT1	
	4/8/2024 8:10:00 AM	LT1	LT1	
	4/16/2024 8:50:00 AM	LT1	LT1	
	4/22/2024 8:10:00 AM	LT1	LT1	
	5/1/2024 8:10:00 AM	LT1	LT1	
	5/6/2024 8:30:00 AM	LT1	LT1	
	5/14/2024 8:50:00 AM	LT1	LT1	
	5/22/2024 8:50:00 AM	LT1	LT1	
	5/28/2024 8:20:00 AM	LT1	LT1	
	6/4/2024 8:10:00 AM	LT1	LT1	
	6/10/2024 8:50:00	LT1	LT1	

AM		
6/17/2024 8:10:00	LT1	LT1
AM 7/2/2024 10:30:00	LT1	LT1
AM	1.74	
7/8/2024 8:40:00 AM 7/16/2024 7:50:00	LT1 LT1	LT1 LT1
7/10/2024 7.50.00 AM	LII	LII
7/23/2024 8:10:00 AM	LT1	LT1
7/29/2024 8:10:00 AM	LT1	LT1
8/13/2024 8:50:00 AM	LT1	LT1
8/20/2024 8:40:00 AM	LT1	LT1
8/26/2024 8:00:00 AM	LT1	LT1
9/4/2024 8:40:00 AM	LT1	LT1
9/9/2024 8:50:00 AM	LT1	LT1
9/17/2024 8:10:00	LT1	LT1
AM		
9/23/2024 8:50:00 AM	LT1	LT1
10/2/2024 8:10:00 AM	LT1	LT1
10/9/2024 8:30:00 AM	LT1	LT1
10/15/2024 8:40:00 AM	LT1	LT1
10/22/2024 8:20:00 AM	1.0	LT1
10/28/2024 8:20:00 AM	LT1	LT1
11/5/2024 8:10:00 AM	LT1	LT1
11/12/2024 8:50:00 AM	LT1	LT1
11/19/2024 8:20:00 AM	LT1	LT1
11/25/2024 8:31:00 AM	LT1	LT1
12/2/2024 8:40:00 AM	LT1	LT1
12/10/2024 8:00:00 AM	LT1	LT1
12/17/2024 8:00:00 AM	LT1	<u>LT1</u>
Total Positive:	1	0

Result Values:	E - estimated	L - less than	G - greater than	
Samples that contain total Samples that contain e. co Samples that contain fecal	li: 0		2.04% of total 0.00% of total 0.00% of total	

Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total	0/0	
coliform in last 30 days:		
Total number of samples:	49	

Comments:

Environmental Health Officer Feb 5 2025

Appendix V

2024 Water System Evaluation Reports



WATER FACILITY EVALUATION REPORT Health Protection

Premises Name	Tel: (604) 894-6135	
Pemberton Industrial Park Water System	Fax: (604) 894-5708	
Premises Address	Inspection Date	Time Spent
Attn: Reece Clark Box 100	March 04, 2025	0.5 hours
Pemberton, BC V0N 2L0		
Operator (Person in Charge)		
Reece Clark		
Inspection Type		
Evaluation		
Observed Violations		
There are no observed violations.		
Section Details		
Comments		
This is an annual evaluation of the water supply within the Pemberto	n Industrial Park.	
The water is supplied from a ground water source located in Mount (Currie on Lil'wat lands.	
A total of 50 bacteriological samples were submitted in 2024 which n	neets the minimum freq	luencv
standard. No samples were positive for total coliforms or e. coli.		, ,
Regular monitoring of free chlorine residuals were done in the suppli	ed water in 2024 to en	curo
		Suic
delivered water contained a minimum Free Available Chlorine level of	or 0.2 ppm.	
A full control of fourth or other control of the first of the control of the first of the control of the full of the control o		MO 311-11-
A full water analysis for this water was completed in 2024 with no ex		
exception of a low pH as has historically been the case. This charact		lkalinity can
cause the water to be aggressive in relation to some plumbing comp	onents.	
General advice for all water systems is for water users to run the war	ter until cold before con	sumption.
,		•
A water system Annual Report for 2023 was submitted in 2024 as pa	art of the Village of Pem	berton
Annual Report submission. Thank you. VCH looks forward to receiving the Annual Report for 2024 by		
June 30, 2024.	ang the Annual Report	101 202+ by
l '	nov Dlan as needed to	ongura tha
Please review and update your Emergency Response and Continge	ncy Plan as needed to	ensure the
contacts remain accurate.		
C		
Action Taken		
☐ Information Exchanged		
Hazard Rating For Your Facility: 🗌 High 🗌	Moderate 🛮 Low	
DWO		
DWO Printed Name		
James Whalen		

Report No. Page 1 of 1

WATER FACILITY EVALUATION REPORT Health Protection



Premises Name	Tel: (604) 894- 227	
Pemberton North Water System	Fax: (604) 894-6526	
Premises Address	Inspection Date	Time Spent
(Pemberton North) Box 100 Pemberton, BC V0N 2L0	March 04, 2025	0.5 hours
Operator (Person in Charge)		
Utilities Department-SLRD		
Inspection Type		
Evaluation		

Observed Violations	
There are no observed violations.	

Section Details		
	<u> </u>	_

Comments

This is an evaluation of the Pemberton North Water System as of March 04, 2025.

A total of 88 treated water samples were submitted for bacteriological analysis in 2024 with none showing presence of coliform bacteria or E. Coli. Excellent sampling frequency throughout each month of the year. The excellent water quality is likely attributable to good operation and maintenance of the water system including consistent chlorine residual in the distribution system and regular water main flushing. Water distribution system improvements made should also positively affect water quality over the long term.

As water is supplied by the Village of Pemberton (VoP) water system the following comments from the 2024 VoP inspection report apply:

Both source wells in use were redeveloped in 2024 with the hope of restoring yield and possibly improving physical water quality as a result of cleaning the screens.

A series of full chemical drinking water analyses were undertaken for both wells and the treated water throughout 2024. Results indicate frequent fluctuations in pH, manganese and iron levels. Generally speaking, manganese levels routinely exceeded the Aesthetic Objective (AO) levels in the source water, and periodically exceeded the Maximum Acceptable Concentration (MAC) levels in well #2. Manganese levels in the treated water also exceeded the AO of 0.020 mg/L in some samples and exceeded the MAC at least once. We understand planning is well underway on an upgraded water treatment plant which will be designed to address these parameters and allow for more consistent chemical water quality and increased water treatment capacity. VCH looks forward to reviewing the design drawings once completed as a part of the Construction Permit Application process.

Increasing water demand overall as development within the service delivery area expands. Options for additional water sources should continue to be investigated; also water conservation planning to help ensure water demands are met into the future.

Implementation of the cross connection control bylaw within the Village of Pemberton continues to provide an increased level of protection as part of the multi-barrier approach in place.

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Operation of the soda ash plant is generally successful at delivering chemically stable water on an ongoing basis. VCH is comfortable with the approach taken by the VOP in continuing to advise the

public to flush taps before water consumption to further minimize lead levels in drinking water.

Administration

A water system Emergency Response and Contingency Plan (ERCP) is in place; please review periodically to ensure the contact information is accurate.

The Annual Report requirement is being met as part of the Village of Pemberton Annual Report submission which was received for the 2023 year ahead of the deadline. We look forward to receiving the Annual Report for the 2024 year before June 30, 2025.

Action Taken			
Information Exch	anged		
	Hazard Rating For Your Facility:	☐ High ☐ Moderate	⊠ Low
DWO			
DWO Printed Name			
James Whalen			

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WATER FACILITY EVALUATION REPORT Health Protection



Premises Name	Tel: (604) 894-6246	
Village of Pemberton	Fax: (604) 894-0000	
Premises Address	Inspection Date	Time Spent
Attn: Reece Clark Box 100 Pemberton, BC V0N 2L0	March 04, 2025	2 hours
Operator (Person in Charge)		
Reece Clark		
Inspection Type		
Evaluation		

Observed Violations	
There are no observed violations.	

Section Details		

Comments

Annual assessment of the Village of Pemberton waterworks system conducted with operations team March 04, 2025.

Water Quality and Quantity

Excellent bacteriological water sampling frequency and water quality in 2024 with 249 treated water samples submitted and 0 with presence of coliform bacteria. Good ongoing operation and maintenance of the water system including regular monitoring of free chlorine residual in the distribution system and regular water main flushing.

An additional 49 raw (untreated) water samples were collected from each of well #2 and well #3 as a means of monitoring source water quality. Both wells were redeveloped in 2024 with the hope of restoring yield and possibly improving physical water quality as a result of cleaning the screens.

A series of full chemical drinking water analyses were undertaken for both wells and the treated water throughout 2024. Results indicate frequent fluctuations in pH, manganese and iron levels. Generally speaking, manganese levels routinely exceeded the Aesthetic Objective (AO) levels in the source water, and periodically exceeded the Maximum Acceptable Concentration (MAC) levels in well #2. Manganese levels in the treated water also exceeded the AO of 0.020 mg/L in some samples and exceeded the MAC at least once. We understand planning is well underway on an upgraded water treatment plant which will be designed to address these parameters and allow for more consistent chemical water quality and increased water treatment capacity. VCH looks forward to reviewing the completed design drawings once completed as a part of the Construction Permit Application process.

Increasing water demand overall as development within the service delivery area expands. Options for additional water sources should continue to be investigated; also water conservation planning to help ensure water demands are met into the future.

Infrastructure

Very good overall system operation and maintenance procedures in place.

Regular exercising of the back-up generator is being undertaken.

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Implementation of the cross connection control bylaw continues to provide an increased level of protection as part of the multi-barrier approach in place.
Operation of the soda ash plant is generally successful at colivering chemically stable water on an ongoing basis. VCH is comfortable with the approach taken by the VOP in continuing to advise the public to flush taps before water consumption to further minimize lead levels in drinking water.
Administration A water system Emergency Response and Contingency Plan (ERCP) is in place; please review periodically to ensure the contact information is accurate. Thank you for submitting your Annual Report for the 2023 year ahead of the deadline. We look forward to receiving the Annual Report for the 2024 year before June 30, 2025.
Action Taken
☐ Information Exchanged
Hazard Rating For Your Facility: ☐ High ☐ Moderate ☒ Low
Hazard Rating For Your Facility: ☐ High ☐ Moderate ☒ Low
DWO
DWO Printed Name James Whalen

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