

Annex F4

Effluent Quality Monitoring Results

Table F4.1 Effluent Monitoring Results

		1 Jan 22	2 Jan 22	3 Jan 22	4 Jan 22	5 Jan 22	6 Jan 22	7 Jan 22	8 Jan 22	9 Jan 22	10 Jan 22	11 Jan 22
On-site Measurements												
Temperature	°C	27.2	28.1	27.1	28.2	26.8	29.4	29.5	29	28.7	21.0	25.7
pH Value	pH Unit	8.4	8.4	8.4	8.4	8.4	8.5	8.4	8.4	8.6	8.6	8.5
Volume Discharged	m³	1194	810	588	1363	1230	1235	1392	1273	804	616	1229
Laboratory Analysis												
Suspended Solids (SS)	mg/L	75	24.7	23.8	24.2	22.1	22.9	21.1	29.1	23.6	16.2	21.6
Alkalinity	mg/L	2240	2260	2300	2330	2310	2240	2250	2270	2260	2270	2280
Ammoniacal-nitrogen	mg/L	0.3	0.27	0.56	0.43	0.46	0.49	0.47	0.51	0.36	1.2	0.3
Chloride	mg/L	2070	2110	2080	1980	2320	2130	2290	2230	2280	2370	2410
Nitrite-nitrogen	mg/L	0.14	0.17	0.55	0.19	0.32	0.19	0.23	0.37	0.39	0.88	0.2
Phosphate	mg/L	7.99	8.34	8.82	8.7	8.31	9.53	8.95	8.45	7.76	8.13	8.07
Sulphate	mg/L	92	94	94	100	103	108	108	100	94	97	96
Total Nitrogen	mg/L	114	99.3	98.4	93.1	101	105	119	124	121	118	114
Nitrate-nitrogen	mg/L	56.6	50.2	52.5	48.3	52.7	59.2	61.9	66.9	65.1	61.2	57.9
Total Inorganic Nitrogen	mg/L	57.0	50.6	53.6	48.9	53.5	59.9	62.6	67.8	65.9	63.3	58.4
Biochemical Oxygen Demand (BOD)	mg/L	14	10	8	9	9	15	9	14	9	20	6
Chemical Oxygen Demand (COD)	mg/L	1090	999	1010	1090	892	957	948	1080	984	993	1010
Oil & Grease	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	360	391	356	349	358	375	385	373	394	366	359
Boron	µg/L	5680	5440	5590	5760	5730	5380	5400	5240	5760	5380	5160
Calcium	mg/L	13.4	15.4	15.3	14.2	16.5	17.3	16.5	16.4	15.1	14.8	18.1
Iron	mg/L	1.04	1.25	1.26	1.15	1.64	1.35	1.43	1.47	1.19	1.26	1.56
Magnesium	mg/L	14.9	16.1	16.1	16.7	25.2	23.2	24.8	26.2	22.4	22.9	28.9
Potassium	mg/L	890	883	888	845	907	930	971	975	899	892	828
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	131	125	125	127	143	134	133	130	123	121	144
Copper	µg/L	22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	µg/L	118	115	113	122	132	127	122	122	120	118	128
Zinc	µg/L	64	46	50	52	64	57	50	48	54	48	52

		12 Jan 22	13 Jan 22	14 Jan 22	15 Jan 22	16 Jan 22	17 Jan 22	18 Jan 22	19 Jan 22	20 Jan 22	21 Jan 22	22 Jan 22
On-site Measurements												
Temperature	°C	24.6	25	25.5	25.3	29.8	27	27	27.8	28	21.7	28.3
pH Value	pH Unit	8.5	8.6	8.5	8.5	8.6	8.6	8.5	8.5	8.5	8.5	8.5
Volume Discharged	m ³	1041	825	1052	1144	1182	1090	1251	1186	1444	836	1034
Laboratory Analysis												
Suspended Solids (SS)	mg/L	22.7	13.8	23.5	15.4	24.9	17.6	13.6	17.9	17.7	16.2	35.8
Alkalinity	mg/L	2270	2270	2300	2290	2250	2270	2280	2290	2280	2360	2310
Ammoniacal-nitrogen	mg/L	0.35	0.36	0.34	0.3	0.34	0.35	0.35	0.32	0.3	4.74	0.38
Chloride	mg/L	2310	2220	2320	2360	2370	2330	2250	2230	2310	2270	2360
Nitrite-nitrogen	mg/L	0.23	0.3	0.2	0.15	0.28	0.36	0.29	0.3	0.21	0.63	0.19
Phosphate	mg/L	7.56	8.9	9.81	9.52	8.98	9.32	9.48	8.5	8.64	9.6	8.37
Sulphate	mg/L	100	94	94	102	101	96	97	101	100	106	102
Total Nitrogen	mg/L	112	114	118	110	117	120	120	119	125	123	109
Nitrate-nitrogen	mg/L	59.3	60.2	57	58.9	63.3	65	68.4	66.3	72.1	61.5	56.4
Total Inorganic Nitrogen	mg/L	59.9	60.9	57.5	59.4	63.9	65.7	69.0	66.9	72.6	66.9	57.0
Biochemical Oxygen Demand (BOD)	mg/L	8	7	9	8	10	8	8	13	13	18	15
Chemical Oxygen Demand (COD)	mg/L	1040	1020	989	943	1010	943	1050	1070	1050	1090	1050
Oil & Grease	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	373	353	376	337	391	354	351	356	363	392	379
Boron	µg/L	5300	5610	5540	5400	5830	6380	6060	5990	5890	6100	6220
Calcium	mg/L	20	15.8	15.3	16.8	14.4	15.4	16.7	12.5	13.5	22	19.8
Iron	mg/L	1	1.3	1.27	1.23	1.34	1.34	1.24	1.25	1.26	1.58	1.36
Magnesium	mg/L	30	26.6	25.6	26.2	26.6	27.6	27.4	20.4	21.1	26.9	25.1
Potassium	mg/L	990	962	879	906	1010	996	944	696	706	1010	974
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	144	125	130	121	144	136	131	139	130	139	132
Copper	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	µg/L	128	118	122	119	126	126	124	127	122	129	129
Zinc	µg/L	49	45	51	47	49	50	50	49	48	51	49

		23 Jan 22	24 Jan 22	25 Jan 22	26 Jan 22	27 Jan 22	28 Jan 22	29 Jan 22	30 Jan 22	31 Jan 22
On-site Measurements										
Temperature	°C	33.5	28.9	29.5	27.1	30.7	27.9	32.6	27.2	25.5
pH Value	pH Unit	8.5	8.4	8.5	8.5	8.3	8.5	8.5	8.5	8.5
Volume Discharged	m³	819	597	930	1220	1109	1136	1089	1059	791
Laboratory Analysis										
Suspended Solids (SS)	mg/L	38.5	20.5	19.2	36.1	23.4	19.8	30	38.2	20.5
Alkalinity	mg/L	2310	2380	2310	2290	2310	2290	2280	2320	2300
Ammoniacal-nitrogen	mg/L	0.57	0.59	0.4	0.34	0.45	0.98	0.39	0.42	0.38
Chloride	mg/L	2440	2430	2200	2230	2310	2290	2290	2260	2290
Nitrite-nitrogen	mg/L	0.27	0.41	0.25	0.22	0.3	0.55	0.19	0.22	0.26
Phosphate	mg/L	8.27	8.22	7.96	8.41	8.43	9.25	8.89	9.47	8.94
Sulphate	mg/L	113	113	113	127	98	100	98	86	99
Total Nitrogen	mg/L	117	110	98.1	99.9	119	122	127	128	119
Nitrate-nitrogen	mg/L	57.7	55	47.7	48.6	62.8	67.3	66.6	66.5	62.3
Total Inorganic Nitrogen	mg/L	58.5	56.0	48.4	49.2	63.6	68.8	67.2	67.1	62.9
Biochemical Oxygen Demand (BOD)	mg/L	13	13	9	10	9	13	14	16	9
Chemical Oxygen Demand (COD)	mg/L	1040	1000	948	975	992	993	1050	1080	1000
Oil & Grease	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	369	370	380	406	445	438	394	386	381
Boron	µg/L	5640	5840	5190	5270	4830	4720	5040	5100	5010
Calcium	mg/L	21.4	22	19.8	19.7	16.8	16.5	19.2	16.6	14.3
Iron	mg/L	1.38	1.34	1.4	1.52	1.52	1.5	1.47	1.56	1.43
Magnesium	mg/L	26.1	26.1	28.8	31.2	28.4	28.2	29.3	28.2	25.9
Potassium	mg/L	979	1000	913	891	887	862	937	807	875
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	130	132	129	143	130	132	127	128	127
Copper	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	µg/L	130	132	122	138	122	122	122	123	121
Zinc	µg/L	50	47	51	57	43	43	49	47	50

		3 Feb 22	4 Feb 22	5 Feb 22	6 Feb 22	7 Feb 22	8 Feb 22	9 Feb 22	10 Feb 22	11 Feb 22	12 Feb 22	13 Feb 22
On-site Measurements												
Temperature	°C	23.5	23.8	25	22.7	22.3	24.5	24.8	28.1	27	28.6	24.2
pH Value	pH Unit	8.5	8.6	8.6	8.6	8.5	8.6	8.5	8.6	8.5	8.5	8.5
Volume Discharged	m³	508	1256	819	772	385	1297	1235	1346	1495	1386	762
Laboratory Analysis												
Suspended Solids (SS)	mg/L	35.1	35.2	49.2	52.9	30.7	24.9	17.1	21.4	23.6	33.1	27.6
Alkalinity	mg/L	2360	2390	2360	2330	2350	2370	2330	2260	2250	2200	2070
Ammoniacal-nitrogen	mg/L	2.73	0.31	0.3	0.26	0.4	0.36	0.38	0.27	0.44	0.3	0.3
Chloride	mg/L	2160	2230	2250	2240	2210	2150	2380	2250	2270	2220	2160
Nitrite-nitrogen	mg/L	0.67	0.19	0.18	0.25	0.17	0.18	0.19	0.18	0.1	0.17	0.17
Phosphate	mg/L	9.32	9.41	8	8.06	8.01	7.9	7.88	7.92	8.52	8.74	8.38
Sulphate	mg/L	100	109	116	115	112	123	118	119	112	110	126
Total Nitrogen	mg/L	118	101	98.2	95.8	92.9	92.3	101	103	111	120	126
Nitrate-nitrogen	mg/L	56.8	45.2	43.7	41.6	41.7	39.1	47.1	53.1	59.8	65.2	67.8
Total Inorganic Nitrogen	mg/L	60.2	45.7	44.2	42.1	42.3	39.6	47.7	53.6	60.3	65.7	68.3
Biochemical Oxygen Demand (BOD)	mg/L	22	9	12	10	10	10	9	10	9	15	10
Chemical Oxygen Demand (COD)	mg/L	1070	1050	1090	1030	984	1040	1030	856	967	893	800
Oil & Grease	mg/L	<5	<5	<5	<5	<5	6	6	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	398	424	407	389	389	409	477	457	498	469	416
Boron	µg/L	5790	5410	6180	5750	5830	5690	6010	5890	5470	5310	5030
Calcium	mg/L	16.9	18	19.1	17.8	17.6	16.8	16.1	16.8	20.3	20	19
Iron	mg/L	1.53	1.65	1.66	1.62	1.48	1.65	1.61	1.4	1.49	1	1.2
Magnesium	mg/L	27.2	31.2	33.2	32.2	30.7	32.3	32.2	28.1	30.8	29	25.6
Potassium	mg/L	801	877	880	906	855	832	928	852	977	856	807
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	142	140	139	140	137	139	137	128	132	127	122
Copper	µg/L	<10	<10	<10	68	<10	<10	<10	<10	<10	<10	56
Nickel	µg/L	125	123	123	121	122	127	128	126	123	118	112
Zinc	µg/L	54	62	59	92	60	57	57	52	53	54	79

Notes:

Effluent monitoring was suspended on 1 and 2 Feb 2022 as the Leachate Treatment Plant (LTP) was not in operation and no treated effluent was discharged from the on-site LTP to the foul sewer leading to Tseung Kwan O Sewage Treatment Works (TKO STW) on 1 and 2 Feb 2022.

		14 Feb 22	15 Feb 22	16 Feb 22	17 Feb 22	18 Feb 22	19 Feb 22	20 Feb 22	21 Feb 22	22 Feb 22	23 Feb 22	24 Feb 22
On-site Measurements												
Temperature	°C	26	26.3	27.4	26.7	24.5	26.3	15.3	13.2	18.2	21	21.8
pH Value	pH Unit	8.5	8.5	8.5	8.6	8.6	8.3	8.4	8.6	8.4	8.3	8.3
Volume Discharged	m³	821	1221	1434	1475	1352	1445	1274	747	1492	1492	1492
Laboratory Analysis												
Suspended Solids (SS)	mg/L	22.3	28.5	26.4	49.6	40.1	40.4	16.5	13.6	32	20.3	20.3
Alkalinity	mg/L	2250	2080	2320	2240	2180	2210	1940	2030	1650	20.3	20.3
Ammoniacal-nitrogen	mg/L	0.32	0.22	0.28	0.25	0.3	0.26	0.25	0.26	0.14	20.3	20.3
Chloride	mg/L	2280	1820	2170	2120	2120	2090	1660	1920	1670	20.3	20.3
Nitrite-nitrogen	mg/L	0.33	0.19	0.21	0.21	0.24	0.22	0.18	0.29	0.14	20.3	20.3
Phosphate	mg/L	9.39	8.58	8.84	8.93	8.63	8.52	7.17	8.33	6.55	20.3	20.3
Sulphate	mg/L	106	130	127	121	120	96	138	107	121	20.3	20.3
Total Nitrogen	mg/L	132	124	121	129	134	128	106	119	102	20.3	20.3
Nitrate-nitrogen	mg/L	72.8	65.2	63.7	67.5	71.3	63.7	53.4	71	58.8	20.3	20.3
Total Inorganic Nitrogen	mg/L	73.5	65.6	64.2	68.0	71.8	64.2	53.8	71.6	59.1	45.2	38.9
Biochemical Oxygen Demand (BOD)	mg/L	9	10	11	15	14	15	8	15	9	20.3	20.3
Chemical Oxygen Demand (COD)	mg/L	837	982	1040	1040	1060	1000	718	915	753	20.3	20.3
Oil & Grease	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	20.3	20.3
Total Organic Carbon (TOC)	mg/L	470	426	490	449	431	449	363	421	325	20.3	20.3
Boron	µg/L	5560	5280	5780	5390	5570	5720	4770	4980	4560	20.3	20.3
Calcium	mg/L	17.2	19.5	18.7	20.1	20	18.4	20.1	17.1	24.1	20.3	20.3
Iron	mg/L	1.36	1.37	1.54	1.73	1.68	1.54	1.24	1.29	1.05	20.3	20.3
Magnesium	mg/L	26.7	26.3	28.8	29	28.4	27.2	24	24	22	20.3	20.3
Potassium	mg/L	895	790	908	893	919	812	755	825	699	20.3	20.3
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20.3	20.3
Chromium	µg/L	129	126	138	135	132	135	115	118	102	20.3	20.3
Copper	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	21	20.3	20.3
Nickel	µg/L	116	112	124	119	123	120	105	107	92	20.3	20.3
Zinc	µg/L	47	48	55	50	53	56	58	67	85	20.3	20.3

		25 Feb 22	26 Feb 22	27 Feb 22	28 Feb 22
On-site Measurements					
Temperature	°C	26.5	25.1	25.6	27.5
pH Value	pH Unit	8.2	8.3	8.3	8.3
Volume Discharged	m ³	1496	1495	1495	1140
Laboratory Analysis					
Suspended Solids (SS)	mg/L	20	44	33.7	20.2
Alkalinity	mg/L	1400	1540	1560	1560
Ammoniacal-nitrogen	mg/L	0.32	0.25	0.28	0.27
Chloride	mg/L	1330	1470	1500	1480
Nitrite-nitrogen	mg/L	0.2	0.11	0.1	0.1
Phosphate	mg/L	4.09	4.37	4.2	4.61
Sulphate	mg/L	203	194	196	192
Total Nitrogen	mg/L	84.5	86.4	87.9	72
Nitrate-nitrogen	mg/L	39.7	38.9	37.4	35.6
Total Inorganic Nitrogen	mg/L	40.2	39.3	37.8	36.0
Biochemical Oxygen Demand (BOD)	mg/L	9	11	9	6
Chemical Oxygen Demand (COD)	mg/L	910	1000	764	619
Oil & Grease	mg/L	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	288	302	296	284
Boron	µg/L	3680	3870	4100	4030
Calcium	mg/L	55	54.3	58.9	54.6
Iron	mg/L	0.86	1.06	1.46	0.93
Magnesium	mg/L	21.4	24.4	24.4	21.5
Potassium	mg/L	544	640	670	633
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	80	92	100	94
Copper	µg/L	<10	<10	<10	<10
Nickel	µg/L	77	89	93	92
Zinc	µg/L	68	76	76	62

		1 Mar 22	2 Mar 22	3 Mar 22	4 Mar 22	5 Mar 22	6 Mar 22	7 Mar 22	8 Mar 22	9 Mar 22	10 Mar 22	11 Mar 22
On-site Measurements												
Temperature	°C	30.1	30	27.8	30.1	28.9	24.9	27.7	28.7	28.5	32.7	32.6
pH Value	pH Unit	8.3	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.4	8.4	8.5
Volume Discharged	m ³	1341	1496	1496	1498	1372	678	644	1367	1497	1380	950
Laboratory Analysis												
Suspended Solids (SS)	mg/L	27	38.7	16.7	18.3	19.2	17.1	14.2	23.9	20.4	31.5	22.6
Alkalinity	mg/L	1460	1540	1520	1470	1530	1750	1830	1670	1980	2070	2260
Ammoniacal-nitrogen	mg/L	0.35	0.29	0.35	0.31	0.35	0.38	0.47	0.31	0.34	0.37	0.33
Chloride	mg/L	1420	1550	1400	1390	1520	1690	1780	1610	1850	1700	1910
Nitrite-nitrogen	mg/L	0.11	0.11	0.11	0.13	0.16	0.15	0.44	0.11	0.14	0.14	0.16
Phosphate	mg/L	4.41	4.98	5.29	5.47	5.98	6.82	7.25	6.95	9	9.8	10.1
Sulphate	mg/L	199	157	181	182	181	163	164	175	164	128	122
Total Nitrogen	mg/L	69.6	96.4	87.9	96.3	98.6	91.4	84.2	78.5	84.7	100	116
Nitrate-nitrogen	mg/L	32.3	46.7	49.6	56	57.2	45	37.5	37.6	37.3	48.7	61.4
Total Inorganic Nitrogen	mg/L	32.8	47.1	50.1	56.4	57.7	45.5	38.4	38.0	37.8	49.2	61.9
Biochemical Oxygen Demand (BOD)	mg/L	8	9	13	13	10	6	7	9	6	7	7
Chemical Oxygen Demand (COD)	mg/L	710	692	983	619	856	902	826	790	826	1190	544
Oil & Grease	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	334	314	313	311	326	334	333	341	390	395	387
Boron	µg/L	3560	4380	4190	4330	4520	4690	4590	4340	5140	5040	5200
Calcium	mg/L	56.5	56	53.7	58.5	51.6	50.9	47.2	37.4	29.4	32.4	26.7
Iron	mg/L	0.86	1.08	0.99	1.01	1.05	1.19	1.08	1.14	1.14	1.24	1.31
Magnesium	mg/L	21.3	22.6	22.3	22.4	21.6	24.9	23.8	21.1	21.2	24	23.9
Potassium	mg/L	561	665	686	689	691	709	776	652	697	777	877
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	88	88	88	86	90	105	102	92	106	126	134
Copper	µg/L	<10	23	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	µg/L	85	85	84	80	86	107	108	100	110	118	125
Zinc	µg/L	59	76	52	46	48	56	54	61	61	54	56

		12 Mar 22	13 Mar 22	14 Mar 22	15 Mar 22	16 Mar 22	17 Mar 22	18 Mar 22	19 Mar 22	20 Mar 22	21 Mar 22	22 Mar 22	23 Mar 22
On-site Measurements													
Temperature	°C	29.3	30.9	31.7	29.7	28.9	31.9	31.9	29.1	25.8	29.9	29.7	25.1
pH Value	pH Unit	8.5	8.4	8.4	8.5	8.4	8.5	8.5	8.4	8.4	8.5	8.5	8.5
Volume Discharged	m ³	730	665	366	764	1143	1141	1125	1178	793	357	1033	1341
Laboratory Analysis													
Suspended Solids (SS)	mg/L	23.4	84.8	10.7	14.6	20.4	21.8	31.6	12.5	14.7	19.5	19.2	20.2
Alkalinity	mg/L	2300	2310	2310	2100	1750	1860	2020	1950	2040	2320	2170	2230
Ammoniacal-nitrogen	mg/L	0.34	0.31	1.39	0.59	0.33	0.37	0.33	0.32	0.34	0.39	0.36	0.35
Chloride	mg/L	1970	2060	2080	1800	1570	1650	1720	1690	1740	2150	1910	1950
Nitrite-nitrogen	mg/L	0.19	0.23	1.12	1.18	0.14	0.16	0.18	0.18	0.18	0.29	0.18	0.18
Phosphate	mg/L	10.2	9.97	10.4	9.55	8.23	8.3	8.5	8.1	7.89	9.96	8.53	8.43
Sulphate	mg/L	121	118	116	140	177	170	152	153	139	114	133	130
Total Nitrogen	mg/L	112	120	112	104	78	83.9	102	96.7	94.4	107	106.0	110.0
Nitrate-nitrogen	mg/L	57.3	61.1	60.8	55	37.8	39.2	45.7	47.7	45.6	51.5	53.8	55.4
Total Inorganic Nitrogen	mg/L	57.8	61.6	63.3	56.8	38.3	39.7	46.2	48.2	46.1	52.2	54.3	55.9
Biochemical Oxygen Demand (BOD)	mg/L	7	12	8	8	11	9	12	8	7	8	7	10
Chemical Oxygen Demand (COD)	mg/L	516	590	982	1010	892	964	903	1050	1090	1130	993	1050
Oil & Grease	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Carbon (TOC)	mg/L	488	418	410	350	332	355	394	372	418	497	412	404
Boron	µg/L	5370	5530	5320	5170	3830	4390	4900	4950	4930	5530	5480	5570
Calcium	mg/L	26	24.6	22.9	23.9	26.3	22.9	21.8	21.5	20.3	18.9	19.5	20.4
Iron	mg/L	1	1.42	1.27	1.28	1.18	1.19	1.4	1.33	1.46	1.46	1.54	1.63
Magnesium	mg/L	24	24.4	23.2	24	24.2	22.6	23.9	24.7	24.5	26.9	25.9	27.6
Potassium	mg/L	882	888	900	820	622	707	784	735	774	922	836	874
Cadmium	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	µg/L	140	143	141	127	104	107	121	109	112	126	123	134
Copper	µg/L	<10	23	<10	<10	<10	<10	15	<10	<10	<10	<10	<10
Nickel	µg/L	130	130	127	119	98	103	112	101	107	122	115	119
Zinc	µg/L	62	100	67	73	97	102	113	106	104	69	99	102