

Annex F8

Groundwater Monitoring Results

Table F8.1 Groundwater Monitoring Results

Parameters	Units	MWX-1	MWX-2	MWX-3	MWX-4	MWX-5	MWX-6	MWX-7	MWX-8	MWX-9	MWX-10	MWX-11	MWX-12	MWX-13	MWX-14
Water Level	mPD	4.71	3.81	3.44	3.97	3.72	3.41	3.54	3.36	4.14	4.13	3.77	6.99	37.02	43.41
Bicarbonate Alkalinity as CaCO ₃	mg/L	140	235	172	<1	37	<1	<1	<1	145	237	200	54	17	14
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	68	9	132	88	78	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	140	235	172	72	46	179	112	104	145	237	200	54	17	14
pH Value	pH Unit	7.7	8.1	8	10.4	8.9	11.3	10.9	11	8	7.8	7.9	7	5.8	5.7
Electrical Conductivity	µS/cm	944	3340	1080	692	1340	1250	1400	2070	7110	1200	641	300	91	101
Ammonia	mg/L	0.07	0.6	1.43	2.37	1.47	3.44	5.16	4.53	0.4	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride	mg/L	173	752	177	125	270	194	243	466	2110	159	46	21	14	17
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.02	0.01	0.04	0.01	<0.01
Sulphate	mg/L	68	390	115	72	184	114	164	252	500	155	71	57	3	4
Sulphide	mg/L	<0.1	<0.1	<0.1	4.1	0.5	6.4	1.9	2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.2	0.6	1.7	2.8	2	4.4	5.9	6.1	0.6	0.2	0.1	<0.1	<0.1	<0.1
Nitrate	mg/L	0.35	0.79	<0.01	<0.01	<0.01	0.01	<0.01	0.04	0.43	0.02	0.04	<0.01	0.12	0.08
Total Nitrogen	mg/L	0.6	1.4	1.7	2.8	2	4.5	5.9	6.1	1.1	0.2	0.2	<0.1	0.2	0.1
Boron	µg/L	120	460	200	210	210	190	220	170	1520	350	110	30	20	20
Calcium	mg/L	58.4	81.5	77.6	20	29.8	33.8	22.1	76.6	135	92.6	81.7	24.2	0.73	1.15
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	7.88	78.2	4.78	0.66	0.48	<0.05	<0.05	<0.05	96.1	8.42	4.69	3.75	0.92	0.8
Sodium	mg/L	97	419	110	89.4	177	153	198	266	1180	127	36	22.9	12.4	13.3
Iron	mg/L	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.43	<0.04	<0.04
Potassium	mg/L	16.9	30.4	26	24.9	58.6	55.3	52.1	75.3	67.5	13.7	8.88	2.74	3.59	3.54
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	2	<1	2	1	3	<1	<1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	176	157	962	2	6	<1	<1	2	162	795	47	755	18	9
Nickel	µg/L	<1	<1	<1	<1	<1	2	2	3	<1	<1	<1	<1	<1	<1
Zinc	µg/L	12	10	495	<10	<10	<10	<10	<10	<10	<10	17	20	<10	16
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	6	<2	<2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	7	28	18	19	30	43	41	32	23	10	7	<2	<2	<2
Total Organic Carbon	mg/L	3	<1	4	5	9	10	12	10	4	3	2	<1	<1	<1