

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	3.11	3.71	2.94	3.57	3.02	2.81	3.04	3.36	4.24	3.33	3.37	6.89	36.52	44.01
Bicarbonate Alkalinity as CaCO ₃	mg/L	141	264	198	22	50	12	18	8	166	230	198	54	17	13
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	50	5	133	74	68	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	141	264	198	73	54	145	92	76	166	230	198	54	17	13
pH Value	pH Unit	7.6	8.4	8.3	10.4	8.6	11.3	10.7	11	8.2	8.2	8.3	7.4	5.8	5.7
Electrical Conductivity	µS/cm	1000	1420	987	794	1300	1100	1350	2240	10400	994	663	300	94	96
Ammonia	mg/L	0.14	0.05	1.33	3.47	1.6	4.32	4.94	7.52	0.72	<0.01	0.05	<0.01	<0.01	<0.01
Chloride	mg/L	201	146	140	159	257	205	263	548	3360	118	48	21	15	18
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.02	0.01	0.05	<0.01	<0.01
Sulphate	mg/L	64	315	94	79	167	96	170	240	637	117	73	57	3	4
Sulphide	mg/L	<0.1	<0.1	<0.1	3.9	<0.1	12.1	<0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.2	<0.1	1.4	3.5	1.8	4.5	5.1	7.7	0.8	0.1	0.1	<0.1	<0.1	<0.1
Nitrate	mg/L	0.04	1.14	0.01	<0.01	<0.01	0.01	0.03	0.02	0.02	<0.01	<0.01	0.01	0.1	0.13
Total Nitrogen	mg/L	0.3	1.2	1.4	3.5	1.8	4.5	5.2	7.8	0.8	0.1	0.1	<0.1	0.1	0.1
Boron	µg/L	130	230	200	200	210	180	220	170	2120	270	110	30	20	20
Calcium	mg/L	59.3	76.9	76.1	23	23.6	31.3	19.5	79.4	115	88.2	80.6	23.9	0.79	0.88
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	8.99	65.4	5.13	0.41	0.41	<0.05	<0.05	0.45	152	8.13	4.95	1.32	0.9	0.77
Sodium	mg/L	109	105	86.2	105	181	161	189	313	1800	95.8	37.8	23.2	12.6	12.8
Iron	mg/L	<0.04	<0.04	0.12	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.46	<0.04	<0.04
Potassium	mg/L	20	18.5	27.5	26	60.4	55.1	51.2	81.1	78.3	14.6	8.26	2.52	3.58	3.39
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	4	<1	<1	<1	<1	<1	<1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	426	142	901	<1	4	<1	<1	<1	239	812	436	735	16	6
Nickel	µg/L	<1	<1	<1	<1	<1	2	2	4	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	29	12	<10	<10	<10	16	27	14	16
Biochemical Oxygen Demand	mg/L	<2	<2	<2	2	<2	9	<2	4	2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	4	3	13	24	24	49	28	30	54	4	6	<2	<2	<2
Total Organic Carbon	mg/L	2	<1	8	6	9	10	12	12	7	2	2	<1	<1	1