



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	3.66	3.54	3.68	3.59	2.58	2.6	3.22	4.16	4.76	N/A ^(a)	4.63	7	38.22	N/A ^(b)
Bicarbonate Alkalinity as CaCO ₃	mg/L	143	226	214	143	106	<1	12	16	199	N/A	232	58	14	N/A
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	4	139	100	37	<1	N/A	<1	<1	<1	N/A
Total Alkalinity as CaCO ₃	mg/L	143	226	214	143	110	161	112	54	199	N/A	232	58	14	N/A
pH Value	pH Unit	7.6	8	7.8	8.1	8.5	11.1	10.4	9.6	7.8	N/A	8	6.7	5.6	N/A
Electrical Conductivity	µS/cm	1120	3690	1080	769	729	1150	1180	2510	1240	N/A	697	302	93	N/A
Ammonia	mg/L	0.14	0.47	0.4	0.42	0.19	3.49	5.59	10	0.01	N/A	0.03	0.04	0.03	N/A
Chloride	mg/L	217	878	142	98	83	191	239	705	146	N/A	45	20	14	N/A
Nitrite	mg/L	<0.01	0.02	<0.01	0.02	0.02	0.02	0.02	0.02	0.02	N/A	0.02	<0.01	<0.01	N/A
Phosphorus	mg/L	<0.01	0.02	0.01	0.01	0.01	<0.01	<0.01	<0.01	0.01	N/A	<0.01	0.02	0.01	N/A
Sulphate	mg/L	64	268	105	81	81	88	102	115	150	N/A	67	60	3	N/A
Sulphide	mg/L	<0.1	<0.1	<0.1	0.2	0.4	9.4	5.1	5.6	<0.1	N/A	<0.1	<0.1	<0.1	N/A
Total Kjeldahl Nitrogen	mg/L	0.3	0.5	0.6	0.7	0.5	4.3	6.7	10.6	0.3	N/A	0.2	0.1	0.1	N/A
Nitrate	mg/L	0.56	1.38	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	0.24	0.04	0.12	N/A
Total Nitrogen	mg/L	0.8	1.9	0.6	0.7	0.5	4.3	6.7	10.6	0.3	N/A	100	0.2	0.2	N/A
Boron	µg/L	170	510	170	180	240	200	240	350	360	N/A	88.6	20	10	N/A
Calcium	mg/L	57.2	83.9	99.7	58.4	23.3	22.2	19.3	46.6	111	N/A	<0.20	24.8	0.82	N/A
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	N/A	5.6	<0.20	<0.20	N/A
Magnesium	mg/L	9.96	67	6.51	3.62	0.77	<0.05	0.63	0.35	5.43	N/A	46.2	4	0.95	N/A

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
Sodium	mg/L	137	514	89.1	71.2	90.7	156	173	371	116	N/A	<0.04	24.2	13	N/A
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	8.51	<0.04	<0.04	N/A
Potassium	mg/L	18.6	34.5	22.4	18	41	54.8	46.4	59	18.4	N/A	<0.2	3.3	3.77	N/A
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N/A	<1	<0.2	<0.2	N/A
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	2	<1	<1	N/A
Copper	µg/L	<1	1	2	<1	1	1	1	<1	3	N/A	<1	2	4	N/A
Lead	µg/L	<1	<1	<1	<1	<1	2	<1	<1	<1	N/A	300	<1	<1	N/A
Manganese	µg/L	210	218	715	26	9	<1	<1	2	17	N/A	<1	620	16	N/A
Nickel	µg/L	<1	<1	<1	<1	<1	1	2	1	<1	N/A	<10	<1	<1	N/A
Zinc	µg/L	<10	<10	<10	<10	<10	<10	11	<10	<10	N/A	100	16	306	N/A
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	5	4	3	<2	N/A	<2	<2	<2	N/A
Chemical Oxygen Demand	mg/L	6	6	10	10	13	45	47	35	19	N/A	7	3	3	N/A
Total Organic Carbon	mg/L	2	1	3	4	6	12	14	11	6	N/A	4	1	1	N/A

Note:

- (a) Monitoring well MWX-10 was under maintenance.
- (b) Monitoring well MWX-14 is not accessible due to safety considerations.