



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	3.91	3.51	3.04	3.87	3.32	3.51	3.44	N/A ^(a)	4.04	N/A ^(b)	N/A ^(c)	7.79	37.72	46.11
Bicarbonate Alkalinity as CaCO ₃	mg/L	171	296	177	178	43	118	<1	21	173	N/A	N/A	58	22	13
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	30	80	72	55	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	171	296	177	178	73	198	88	76	173	N/A	N/A	58	22	13
pH Value	pH Unit	7.6	7.8	7.8	8	9.4	9.6	10.5	9.7	7.8	N/A	N/A	7	6	5.6
Electrical Conductivity	µS/cm	943	1430	1250	576	748	879	1220	1850	1760	N/A	N/A	327	104	148
Ammonia	mg/L	0.08	0.08	1.78	0.22	0.87	1.93	3.44	3.96	0.39	N/A	N/A	<0.01	0.04	<0.01
Chloride	mg/L	157	128	228	41	118	131	206	384	6000	N/A	N/A	19	14	26
Nitrite	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	N/A	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.02	0.01	0.02	<0.01	0.01	<0.01	<0.01	0.04	N/A	N/A	0.03	0.02	<0.01
Sulphate	mg/L	44	345	98	55	87	44	148	147	861	N/A	N/A	58	3	10
Sulphide	mg/L	<0.1	<0.1	<0.1	2.9	2	15.5	0.6	0.4	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.3	<0.1	2.1	0.5	1.3	2.2	3.8	4.5	0.6	N/A	N/A	<0.1	<0.1	<0.1
Nitrate	mg/L	0.14	2.33	<0.01	0.02	0.01	<0.01	0.02	<0.01	<0.01	N/A	N/A	0.02	0.08	0.22
Total Nitrogen	mg/L	0.4	2.4	2.1	0.5	1.4	2.2	3.8	4.5	0.6	N/A	N/A	0.1	0.2	0.3
Boron	µg/L	190	410	250	150	220	330	270	250	2500	N/A	N/A	30	20	20
Calcium	mg/L	45.2	104	87.2	62.7	17.7	4.34	18.8	43.4	230	N/A	N/A	23.5	1.62	2.26
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	N/A	N/A	<0.20	<0.20	<0.20
Magnesium	mg/L	10.6	59.2	6.39	3.45	0.44	0.56	0.16	1.02	317	N/A	N/A	4.32	1.16	1.66

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	100	99.1	129	36	103	136	181	268	2740	100	N/A	N/A	25.9	11.7	18.2
Iron	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	N/A	<0.04	0.96	<0.04
Potassium	16.9	24.8	29.8	17.3	38.6	61.8	50.3	57.4	146	16.9	N/A	N/A	5.42	3.49	5
Cadmium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N/A	N/A	<0.2	<0.2	<0.2
Chromium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Copper	<1	<1	1	<1	1	2	2	<1	<1	<1	N/A	N/A	<1	<1	2
Lead	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	123	205	922	54	6	3	<1	4	775	123	N/A	N/A	8	260	16
Nickel	<1	<1	<1	<1	<1	2	1	2	<1	<1	N/A	N/A	<1	<1	<1
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	N/A	N/A	<10	12	18
Biochemical Oxygen Demand	<2	<2	<2	<2	<2	8	<2	<2	<2	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	9	7	25	13	22	52	35	29	<20	9	N/A	N/A	7	3	4
Total Organic Carbon	2	3	7	4	7	12	13	10	5	2	N/A	N/A	3	1	2

Note:

- (a) The water level of Monitoring well MWX-8 could not be measured due to thick grass layer.
- (b) Monitoring well MWX-10 is under maintenance.
- (c) Monitoring well MWX-11 is not accessible due to the safety considerations.