



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	3.27	3.2	3.44	3.44	3.62	3.47	4.52	4.23	3.2	N/A <sup>(a)</sup>	N/A <sup>(b)</sup>	25.37	6.28	8.32
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	150	267	218	134	97	<1	190	17	161	N/A	N/A	55	16	11
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	<1	11	148	<1	58	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	150	267	218	134	108	196	190	76	161	N/A	N/A	55	16	11
pH Value	pH Unit	7.6	7.9	7.8	8.2	8.8	11.2	7.9	9.9	7.7	N/A	N/A	6.9	5.7	5.4
Electrical Conductivity	µS/cm	895	1060	725	594	661	1140	587	1550	18100	N/A	N/A	326	91	122
Ammonia	mg/L	0.02	0.03	0.36	0.3	0.4	3.3	0.14	3.56	0.43	N/A	N/A	<0.01	<0.01	0.01
Chloride	mg/L	153	44	71	64	65	168	41	319	5350	N/A	N/A	20	14	25
Nitrite	mg/L	<0.01	<0.01	<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	0.01	0.02	0.02	0.01	<0.01	<0.01	<0.01	0.05	N/A	N/A	0.04	0.01	<0.01
Sulphate	mg/L	44	220	49	65	88	83	37	182	920	N/A	N/A	63	3	4
Sulphide	mg/L	<0.1	<0.1	<0.1	0.2	0.5	11.6	0.1	2.3	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.2	<1.0	0.7	0.5	0.8	4	0.4	4.9	0.6	N/A	N/A	<0.1	0.1	<0.1
Nitrate	mg/L	0.43	3.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	N/A	N/A	<0.01	0.1	0.17
Total Nitrogen	mg/L	0.6	3.8	0.7	0.5	0.8	4	0.4	4.9	0.6	N/A	N/A	<0.1	0.2	0.2
Boron	µg/L	180	340	150	150	280	220	200	240	2850	N/A	N/A	30	20	20
Calcium	mg/L	46.7	90.9	82.6	57.3	16.4	21.5	65.6	30	173	N/A	N/A	26.8	0.85	1.21
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	11.5	48.5	5.81	3.73	0.57	<0.05	5.19	0.53	335	N/A	N/A	4.52	1	1.31

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	104	56.1	48.7	49.2	91.5	155	41.5	231	3050	N/A	N/A	25.1	14.5	17.2
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	N/A	N/A	0.42	<0.04	<0.04
Potassium	mg/L	18	19.7	17.6	14.6	42.2	56.5	14.9	58.8	156	N/A	N/A	3.13	4.06	4.58
Cadmium	µg/L	<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	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Copper	µg/L	1	<1	<1	<1	<1	2	<1	<1	2	N/A	N/A	<1	2	4
Lead	µg/L	<1	<1	<1	<1	<1	2	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	42	81	412	29	6	<1	41	2	416	N/A	N/A	728	38	13
Nickel	µg/L	<1	<1	<1	<1	<1	1	<1	3	<1	N/A	N/A	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	N/A	N/A	10	13	<10
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	4	3	9	8	12	40	6	28	<20	N/A	N/A	5	7	7
Total Organic Carbon	mg/L	3	2	5	4	5	10	4	9	<5	N/A	N/A	2	2	3

**Note:**

- (a) Monitoring well MWX-10 is under maintenance.
- (b) Monitoring well MWX-11 is not accessible due to the landscape reparation work.