



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	3.52	3.19	2.98	3.33	3.51	2.87	3.01	N/A ^(a)	3.18	N/A ^(b)	N/A ^(c)	5.83	35.92	41.82
Bicarbonate Alkalinity as CaCO ₃	mg/L	156	292	132	<1	48	<1	<1	<1	158	N/A	N/A	57	14	10
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	79	45	131	81	86	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	156	292	132	100	93	187	105	126	158	N/A	N/A	57	14	10
pH Value	pH Unit	7.6	7.8	7.8	10.6	9.6	11.1	10.5	10.4	7.9	N/A	N/A	6.9	5.6	5.6
Electrical Conductivity	µS/cm	1090	1110	1110	591	843	1130	1320	3550	21900	N/A	N/A	297	92	97
Ammonia	mg/L	0.02	0.08	1.59	2.71	0.83	3.81	5	16.4	0.54	N/A	N/A	<0.01	0.01	0.02
Chloride	mg/L	218	56	206	88	139	174	230	1050	7040	N/A	N/A	20	14	18
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	0.01	0.01	<0.01	<0.01	<0.01	0.01	0.07	N/A	N/A	0.03	<0.01	<0.01
Sulphate	mg/L	56	251	75	44	91	75	163	53	1010	N/A	N/A	55	3	3
Sulphide	mg/L	<0.1	<0.1	0.3	4.1	4.1	16.1	0.4	17.7	0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.1	0.2	1.8	2.8	1.4	4.6	5.9	16.8	0.8	N/A	N/A	<0.1	0.1	<0.1
Nitrate	mg/L	0.13	2.25	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	N/A	N/A	<0.01	0.08	0.12
Total Nitrogen	mg/L	0.3	2.5	1.8	2.8	1.4	4.6	5.9	16.8	0.8	N/A	N/A	<0.1	0.2	0.2
Boron	µg/L	210	360	210	210	220	170	270	460	2750	N/A	N/A	70	30	20
Calcium	mg/L	52.4	82.8	65.9	19.1	6.96	25.7	16.5	94.2	201	N/A	N/A	23.4	0.77	0.81
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	12.1	54.2	4.26	<0.05	0.47	<0.05	<0.05	<0.05	407	N/A	N/A	4.04	0.93	0.78

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Sodium	mg/L	125	59.3	117	73.2	120	138	195	511	3430	N/A	N/A	23.8	12.3	12.9
Iron	mg/L	<0.04	<0.04	0.18	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	N/A	0.09	<0.04	<0.04
Potassium	mg/L	19.1	18.2	25.2	19.8	46.8	49.2	52	70.4	198	N/A	N/A	2.82	3.58	3.24
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	<1	1	<1	<1	N/A	N/A	3	4	5
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	192	264	618	<1	<1	<1	<1	<1	373	N/A	N/A	650	16	6
Nickel	µg/L	<1	<1	<1	<1	<1	1	1	<1	<1	N/A	N/A	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	N/A	N/A	12	11	11
Biochemical Oxygen Demand	mg/L	<2	<2	2	3	2	8	<2	6	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	6	5	18	14	19	37	39	48	<20	N/A	N/A	2	<2	3
Total Organic Carbon	mg/L	2	3	6	6	7	10	14	13	<5	N/A	N/A	1	1	1

Note:

- (a) The dip 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.