



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	2.94	2.96	2.84	2.74	2.69	2.91	N/A ^(a)	3.04	N/A ^(b)	3.2	6.66	35.59	36.81
Bicarbonate Alkalinity as CaCO ₃	mg/L	156	292	139	<1	<1	<1	<1	<1	152	N/A	152	58	15	10
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	70	102	137	84	67	<1	N/A	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	156	292	139	78	139	183	100	67	152	N/A	152	58	15	10
pH Value	pH Unit	7.8	7.9	8	10.2	10.8	11	10.3	9.5	7.9	N/A	7.8	7.1	5.7	5.7
Electrical Conductivity	µS/cm	1140	1120	1100	586	992	1090	1360	3580	20600	N/A	1410	288	92	100
Ammonia	mg/L	0.2	0.1	1.6	3.02	2.3	3.56	4.34	13.7	0.7	N/A	0.04	<0.01	<0.01	<0.01
Chloride	mg/L	198	52	192	93	131	160	209	1020	5850	N/A	298	18	13	17
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	N/A	<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	0.05	N/A	<0.01	0.03	<0.01	<0.01
Sulphate	mg/L	51	240	61	45	72	71	139	48	961	N/A	59	49	3	4
Sulphide	mg/L	<0.1	<0.1	0.2	4	10.7	14.1	<0.1	6.8	0.2	N/A	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.3	<1.0	1.8	3.5	2.8	4.5	5.4	14.9	0.8	N/A	<0.1	0.2	<0.1	<0.1
Nitrate	mg/L	<0.01	2.45	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	N/A	<0.01	<0.01	0.08	0.08
Total Nitrogen	mg/L	0.3	2.9	1.8	3.5	2.8	4.5	5.5	14.9	0.8	N/A	<0.1	0.2	0.1	<0.1
Boron	µg/L	190	340	210	190	190	160	240	440	2680	N/A	100	20	10	10
Calcium	mg/L	52.4	78.8	59.4	15.8	22.2	26.1	17	67.7	195	N/A	90.6	22.6	0.74	0.89
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	N/A	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	12.7	54.2	4.12	0.06	<0.05	<0.05	<0.05	0.06	345	N/A	8.02	3.86	0.94	0.82

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Sodium	mg/L	130	57.8	116	76.4	122	134	193	470	3000	N/A	150	22.7	12.3	13.3
Iron	mg/L	<0.04	<0.04	0.15	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	<0.04	0.17	<0.04	<0.04
Potassium	mg/L	18.2	18.6	26	19.5	47	48.8	51.7	65.1	179	N/A	9.96	2.87	3.76	3.44
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N/A	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	2	<1	<1	N/A	<1	2	<1	3
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	<1
Manganese	µg/L	275	303	582	<1	<1	<1	<1	1	467	N/A	662	612	13	7
Nickel	µg/L	<1	<1	<1	<1	1	1	2	1	<1	N/A	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	N/A	<10	20	11	41
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	4	12	<2	14	<2	N/A	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	7	<2	14	13	28	39	34	32	<20	N/A	8	6	7	5
Total Organic Carbon	mg/L	2	<1	6	7	8	11	14	13	<5	N/A	2	1	4	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.