



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	2.79	2.79	2.64	2.8	3.84	N/A ^(a)	2.59	N/A ^(a)	2.71	N/A ^(b)	3.12	6.22	35.6	40.74
Bicarbonate Alkalinity as CaCO ₃	mg/L	152	295	185	<1	<1	<1	<1	<1	151	N/A	150	58	14	10
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	60	101	120	64	55	<1	N/A	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	152	295	185	72	158	182	70	68	151	N/A	150	58	14	10
pH Value	pH Unit	7.6	7.8	8	10.2	11	11.1	10.2	9.6	8.1	N/A	8	7.4	5.6	5.5
Electrical Conductivity	µS/cm	1330	1100	1080	647	1070	1110	1350	3590	16200	N/A	1480	287	92	101
Ammonia	mg/L	0.28	0.08	1.26	3.32	2.52	3.13	2.91	14.9	0.45	N/A	0.04	<0.01	0.01	<0.01
Chloride	mg/L	295	55	181	125	164	170	255	1160	5340	N/A	332	20	14	18
Nitrite	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	1.6	<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	0.02	<0.01	<0.01
Sulphate	mg/L	58	223	82	47	77	65	162	39	766	N/A	62	52	3	4
Sulphide	mg/L	<0.1	<0.1	0.2	4.5	8.3	11.2	<0.1	16.1	0.2	N/A	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.5	0.3	1.6	4.7	3.8	5	4.5	16.3	0.8	N/A	0.1	<0.1	<0.1	<0.1
Nitrate	mg/L	<0.01	2.26	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	N/A	<0.01	<0.01	0.1	0.08
Total Nitrogen	mg/L	0.5	2.6	1.6	4.7	3.8	5	6.1	16.3	0.8	N/A	0.1	<0.1	0.1	<0.1
Boron	µg/L	220	360	220	200	210	180	280	520	2110	N/A	160	40	20	20
Calcium	mg/L	56.3	72.9	67.3	15.8	25.8	23.4	12.7	67.2	116	N/A	85.5	20.8	0.87	0.91
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	13	50.9	4.26	<0.05	<0.05	<0.05	<0.05	<0.05	183	N/A	7.67	3.37	0.9	0.76

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Sodium	mg/L	138	56.5	107	80.6	119	133	191	482	2050	N/A	158	21.4	11.6	15.9
Iron	mg/L	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	<0.04	0.2	<0.04	<0.04
Potassium	mg/L	18.4	16.7	24.3	20.3	45.4	45.2	49.1	59.5	120	N/A	8.86	2.62	3.64	3.37
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	<1	1	3
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	<1
Manganese	µg/L	592	322	675	<1	<1	<1	<1	<1	247	N/A	709	566	16	8
Nickel	µg/L	<1	<1	<1	<1	1	1	2	<1	<1	N/A	<1	<1	<1	<1
Zinc	µg/L	<10	<10	609	<10	<10	19	<10	146	<10	N/A	<10	11	10	957
Biochemical Oxygen Demand	mg/L	<2	<2	<2	7	9	<2	2	<2	<2	N/A	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	3	16	17	34	33	36	39	<20	3	N/A	3	<2	4	<2
Total Organic Carbon	mg/L	2	6	5	8	10	8	9	<5	2	N/A	2	<1	2	<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.