



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	2.81	2.91	2.84	2.97	2.72	3.51	2.74	N/A ^(a)	3.64	N/A ^(b)	N/A ^(c)	6.29	35.42	41.11
Bicarbonate Alkalinity as CaCO ₃	mg/L	159	263	316	163	<1	<1	70	141	190	N/A	N/A	19	12	60
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	122	141	<1	<1	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	159	263	316	163	165	170	70	141	190	N/A	N/A	19	12	60
pH Value	pH Unit	7.7	7.9	7.7	7.9	11.1	11.1	8.2	7.8	7.8	N/A	N/A	5.8	5.6	7.2
Electrical Conductivity	µS/cm	1320	3020	874	661	1120	1010	2210	2090	15900	N/A	N/A	98	103	292
Ammonia	mg/L	0.53	0.32	0.32	0.64	5.73	2.92	5.59	5.91	0.32	N/A	N/A	0.07	<0.01	0.01
Chloride	mg/L	261	730	47	74	203	151	642	472	4850	N/A	N/A	15	19	22
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	0.02	<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	0.02	<0.01	<0.01	N/A	N/A	0.02	<0.01	0.04
Sulphate	mg/L	53	260	81	58	64	66	51	145	694	N/A	N/A	3	4	45
Sulphide	mg/L	<0.1	<0.1	<0.1	1.2	12.3	13.4	1.2	4.7	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.6	0.4	0.5	0.9	6.3	3.1	6.2	6.8	0.7	N/A	N/A	0.2	<0.1	0.2
Nitrate	mg/L	<0.01	0.02	0.08	<0.01	0.02	<0.01	<0.01	<0.01	0.02	N/A	N/A	0.02	0.05	<0.01
Total Nitrogen	mg/L	0.6	0.4	0.6	0.9	6.3	3.1	6.2	6.8	0.7	N/A	N/A	0.2	0.1	0.2
Boron	µg/L	210	480	160	150	160	150	620	240	1650	N/A	N/A	20	20	50
Calcium	mg/L	50.3	84.5	105	57.2	31.7	17.3	36.4	85.8	374	N/A	N/A	0.96	0.92	22
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	12.5	68.2	7.04	4.04	<0.05	<0.05	11.3	2.57	234	N/A	N/A	1.11	0.81	3.93

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	159	355	53	53.1	142	132	309	261	2120	N/A	N/A	12.2	13.7	24.7
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	N/A	N/A	<0.04	<0.04	0.24
Potassium	mg/L	18.9	25.6	21.4	13.3	52.9	50.6	36.8	58.9	117	N/A	N/A	3.53	3.43	2.83
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	2	4	N/A	N/A	<1	2	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	768	340	848	42	<1	<1	6	11	669	N/A	N/A	102	8	542
Nickel	µg/L	<1	<1	<1	<1	3	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	11	13	11
Biochemical Oxygen Demand	mg/L	<2	<2	<2	2	7	8	<2	5	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	4	9	6	11	40	34	12	44	32	N/A	N/A	<2	<2	2
Total Organic Carbon	mg/L	3	2	3	5	11	10	3	13	9	N/A	N/A	1	<1	1

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.