



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	2.41	2.91	2.74	2.37	3.02	2.91	2.04	2.86	2.64	2.53	2.67	6.29	36.02	41.61
Bicarbonate Alkalinity as CaCO ₃	mg/L	164	270	137	<1	<1	<1	74	<1	163	204	170	57	17	13
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	65	72	146	12	89	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	164	270	137	65	77	172	86	113	163	204	170	57	17	13
pH Value	pH Unit	7.7	8.1	8.1	10.3	10.7	11.3	8.7	10.7	7.9	7.9	7.7	6.9	5.7	5.7
Electrical Conductivity	µS/cm	1480	981	1060	920	1750	1140	2180	3700	3620	1060	1190	293	92	100
Ammonia	mg/L	0.61	0.03	1.57	4.54	2.82	5.74	5.72	15.6	0.85	<0.01	0.07	0.01	<0.01	<0.01
Chloride	mg/L	337	45	210	209	431	212	547	1090	1000	167	215	20	14	18
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<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	0.03	<0.01	0.03	<0.01	<0.01
Sulphate	mg/L	80	186	61	63	124	63	49	45	248	77	63	54	3	4
Sulphide	mg/L	<0.1	<0.1	0.1	4.9	5.8	15.5	1.8	12.3	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.8	<1.0	1.7	5	3.2	5.8	6.4	16	1.1	<0.1	0.4	<0.1	<0.1	<0.1
Nitrate	mg/L	0.21	4.06	0.02	<0.01	0.01	0.01	<0.01	0.02	0.01	0.01	<0.01	<0.01	0.08	0.08
Total Nitrogen	mg/L	1	4.5	1.7	5	3.2	5.8	6.4	16	1.1	<0.1	0.4	<0.1	<0.1	0.2
Boron	µg/L	230	250	220	190	220	180	720	510	780	180	120	20	10	10
Calcium	mg/L	67.3	68.3	58.3	30.7	47.5	32.2	23	92.1	109	74.7	94.2	22.4	0.76	0.96
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	13.9	54.7	3.91	0.08	0.12	<0.05	7.84	<0.05	29.6	9.28	5.9	3.63	0.92	0.81

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	183	52.2	114	120	246	154	322	598	588	105	120	24	20.9	13.1
Iron	mg/L	<0.04	<0.04	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.31	<0.04	<0.04
Potassium	mg/L	23.1	14.2	25.4	30.5	50.7	53.1	41	64	49.5	11.3	9.76	2.69	3.66	3.41
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	2220	228	772	<1	<1	<1	2	<1	460	2520	632	651	10	8
Nickel	µg/L	<1	<1	<1	1	<1	2	<1	1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	168	<10	<10	<10	<10	<10	<10	11	<10	581	22200	24
Biochemical Oxygen Demand	mg/L	<2	<2	<2	3	3	13	<2	9	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	5	3	18	25	21	53	14	51	24	3	5	3	3	4
Total Organic Carbon	mg/L	3	<1	8	8	7	12	3	12	7	1	3	2	2	2