



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	2.73	2.79	2.68	2.55	2.65	2.48	2.38	3.14	2.8	2.58	3.07	11.86	34.96	41.17
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	166	266	149	<1	2	<1	80	<1	165	201	162	57	15	12
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	63	31	122	12	81	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	166	266	149	76	33	175	91	119	165	201	162	57	15	12
pH Value	pH Unit	7.6	8	8	10.4	9.8	11.2	8.7	10.7	7.9	7.8	7.9	7	5.7	5.7
Electrical Conductivity	µS/cm	1520	934	1080	1010	3080	1210	2140	3660	2480	1130	1510	286	91	99
Ammonia	mg/L	0.49	0.02	1.44	5.3	2.69	4.86	5.38	15.7	0.54	0.02	0.08	0.03	0.02	0.03
Chloride	mg/L	336	42	216	241	828	226	591	1210	633	187	340	20	14	18
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<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	0.02	0.02	0.01	0.04	0.01	<0.01
Sulphate	mg/L	75	173	65	67	186	70	50	35	150	80	80	51	3	4
Sulphide	mg/L	<0.1	<0.1	<0.1	3.3	3.9	13.8	1.3	11	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.8	0.5	1.7	6.6	3.4	6.6	6.1	16.6	0.9	0.1	0.2	<0.1	0.2	0.3
Nitrate	mg/L	0.15	2.94	0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.09	0.07
Total Nitrogen	mg/L	0.9	3.4	1.7	6.6	3.4	6.6	6.1	16.6	0.9	0.1	0.2	<0.1	0.3	0.4
Boron	µg/L	230	240	220	180	240	180	680	510	610	170	120	20	20	10
Calcium	mg/L	62.8	65	61.3	40.3	82.4	38.1	25	93.2	94.9	81.1	107	24.5	0.74	1.08
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	14.5	50.4	4.95	0.06	4.95	<0.05	10.6	<0.05	18.9	10.9	9.83	4.3	1.05	0.97

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	178	53.6	110	130	441	140	335	603	341	122	152	25.8	14.2	14.6
Iron	mg/L	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	<0.04	0.35	<0.04	<0.04
Potassium	mg/L	22.8	13.5	25.8	32.9	76.3	52.6	43	65.4	40.3	12	10.7	2.99	4.07	3.9
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	4	2
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	2100	208	859	1	<1	<1	4	<1	264	2920	861	639	17	7
Nickel	µg/L	<1	<1	<1	1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	23	13
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	7	<2	6	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	7	6	18	26	28	47	15	46	18	3	4	3	3	2
Total Organic Carbon	mg/L	2	<1	6	6	<1	7	2	6	6	<1	<1	<1	<1	<1