



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	3.46	3.55	3.35	3.33	3.48	3.16	3.23	3.38	3.58	4.33	4.19	7.09	37.85	N/A <sup>(a)</sup>
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	153	254	217	35	56	<1	<1	<1	160	192	145	57	21	N/A
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	27	8	143	110	79	<1	<1	<1	<1	<1	N/A
Total Alkalinity as CaCO <sub>3</sub>	mg/L	153	254	217	62	64	172	127	79	160	192	145	57	21	N/A
pH Value	pH Unit	7.7	8.1	8	9.5	9	11.2	11	10.6	8	7.9	8	7.2	5.8	N/A
Electrical Conductivity	µS/cm	1110	1680	1190	656	945	1180	1310	1830	18300	1020	414	311	101	N/A
Ammonia	mg/L	0.01	0.1	0.84	2.02	0.82	3.38	6.08	4.99	0.51	<0.01	<0.01	<0.01	0.2	N/A
Chloride	mg/L	209	241	186	113	157	188	243	392	6000	159	25	19	14	N/A
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	N/A
Phosphorus	mg/L	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.03	<0.01	0.03	<0.01	N/A
Sulphate	mg/L	57	242	88	66	101	86	110	200	829	79	22	57	3	N/A
Sulphide	mg/L	<0.1	<0.1	<0.1	4.8	0.6	2.5	5.7	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	N/A
Total Kjeldahl Nitrogen	mg/L	0.2	0.1	1.4	2.2	1.4	4.4	6.8	5.6	0.7	0.1	<0.1	0.2	0.2	N/A
Nitrate	mg/L	0.67	2.89	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	<0.01	0.11	N/A
Total Nitrogen	mg/L	0.9	3	1.4	2.2	1.4	4.4	6.8	5.6	0.7	0.1	0.1	0.2	0.4	N/A
Boron	µg/L	200	350	190	190	220	210	240	210	2960	170	70	20	20	N/A
Calcium	mg/L	50.4	87.6	99.1	22.1	21.3	26.5	23.9	40.7	170	83.1	50	26.6	1.11	N/A
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	N/A
Magnesium	mg/L	11.8	58.2	7.71	1.4	0.57	<0.05	0.18	0.21	359	8.96	1.13	4.39	1.31	N/A

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	131	159	112	83.5	129	161	196	274	3200	105	25.3	24.9	12.8	N/A
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.21	0.14	N/A
Potassium	mg/L	20.1	22.7	26.4	21.9	47.4	57.1	57.1	66.8	164	10.8	7.03	3.18	3.76	N/A
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	N/A
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A
Copper	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	1	<1	2	N/A
Lead	µg/L	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	N/A
Manganese	µg/L	194	130	982	6	6	<1	<1	<1	362	2020	102	679	254	N/A
Nickel	µg/L	<1	<1	<1	<1	<1	1	2	2	<1	<1	<1	<1	<1	N/A
Zinc	µg/L	<10	<10	28	<10	<10	<10	<10	<10	<10	<10	<10	14	16	N/A
Biochemical Oxygen Demand	mg/L	<2	<2	<2	2	<2	5	4	<2	<2	<2	<2	<2	<2	N/A
Chemical Oxygen Demand	mg/L	9	6	18	18	24	41	49	29	108	5	4	4	<2	N/A
Total Organic Carbon	mg/L	3	2	7	4	7	10	11	8	<5	3	2	1	1	N/A

**Note:**

(a) Monitoring well MWX-14 is not accessible due to safety considerations.