

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	2.61	2.72	2.70	2.61	2.58	2.51	2.48	2.37	2.68	2.66	2.98	6.29	35.86	43.21
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	134	301	161	<1	<1	<1	50	<1	74	163	146	59	15	10
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	91	75	94	15	79	16	<1	<1	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	134	301	161	144	106	211	65	110	90	163	146	59	15	10
pH Value	pH Unit	7.7	7.8	7.8	10.9	10.6	11.1	8.8	10.3	8.7	7.7	8	6.6	5.4	5.5
Electrical Conductivity @ 25Â°C	µS/cm	752	786	1060	1220	1210	1400	2770	3070	2330	1150	374	311	95	92
Ammonia as N	mg/L	0.17	<0.01	1.07	7.6	1.9	3.83	6.26	13.3	6.42	<0.01	0.11	<0.01	0.02	<0.01
Chloride	mg/L	118	30	181	270	215	183	889	983	658	231	26	23	16	18
Nitrite as N	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
Reactive Phosphorus as P	mg/L	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.03	0.04	0.02	0.04	<0.01	<0.01
Sulphate as SO <sub>4</sub> - Turbidimetric	mg/L	59	85	95	55	158	96	45	43	152	82	7	54	3	3
Sulphide as S <sup>2-</sup>	mg/L	<0.1	<0.1	<0.1	6.4	3.3	11	1	10.9	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.2	0.1	1.2	7.8	2	4.3	6.6	14	6.5	<0.1	0.2	0.1	<0.1	0.1
Nitrate as N	mg/L	0.05	0.29	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.12
Total Nitrogen as N	mg/L	0.3	0.4	1.2	7.8	2	4.3	6.6	14	6.5	<0.1	0.2	0.2	0.2	0.2
Boron	µg/L	120	200	170	160	180	170	630	530	500	100	50	20	10	10
Calcium	mg/L	56.5	59.3	84.2	55.4	32	33.5	34.6	67.5	39	86.4	46.8	27.1	0.87	0.86
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	5.68	52.4	5.58	<0.05	<0.05	<0.05	8.86	0.05	12.6	11.4	2.97	4.18	0.98	0.74
Sodium	mg/L	92.4	36.9	102	144	172	166	484	439	352	133	29.4	25.4	14	13.6
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.14	0.59	<0.04	<0.04
Potassium	mg/L	20.3	10.5	26.2	37.1	58.8	59.3	54.3	45.8	43.5	11.2	7.15	2.95	4	3.51
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	<1	<1	<1	1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	554	142	974	<1	<1	<1	4	<1	9	2550	567	770	28	7
Nickel	µg/L	<1	<1	<1	2	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	2930	<10	<10	<10	<10	27	<10	<10	<10	<10	14	11	<10
Biochemical Oxygen Demand	mg/L	<2	<2	<2	4	4	9	<2	5	2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	9	<2	15	34	25	44	15	20	26	20	2	7	<2	<2
Total Organic Carbon	mg/L	4	2	10	13	8	12	6	10	11	6	3	2	2	1