

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	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	100	256	139	<1	<1	<1	33	<1	123	221	251	54	18	13
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	63	77	113	29	90	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	100	256	139	101	132	189	62	131	123	221	251	54	18	13
pH Value	pH Unit	8	7.9	7.9	10.9	11.1	11.3	9.3	10.9	8.2	7.9	7.6	7	5.9	5.9
Electrical Conductivity	µS/cm	1270	922	1130	945	1260	1320	2440	1770	1000	948	856	306	92	98
Ammonia as N	mg/L	0.8	0.02	1.58	4.27	2.34	3.74	6.35	8.64	1.22	0.02	0.13	0.02	<0.01	<0.01
Chloride	mg/L	305	38	204	175	206	190	665	364	184	114	74	21	15	18
Nitrite as N	mg/L	<0.01	0.02	<0.01	<0.01	0.02	<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	0.02	0.01	0.01	0.04	0.01	<0.01
Sulphate as SO <sub>4</sub> - Turbidimetric	mg/L	70	197	90	74	124	100	36	196	88	93	83	61	3	4
Sulphide as S <sub>2</sub>	mg/L	0.2	<0.1	<0.1	7.2	7.7	17.4	2.5	5.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.8	0.1	1.8	5	2.4	4.2	7.1	9.6	1.4	0.1	0.2	0.1	<0.1	<0.1
Nitrate as N	mg/L	<0.01	0.59	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.01	<0.01	0.01	0.1	0.08
Total Nitrogen as N	mg/L	0.8	0.7	1.8	5	2.5	4.2	7.1	9.7	1.4	0.1	0.2	0.1	0.1	<0.1
Boron	µg/L	110	180	200	200	200	180	690	190	270	180	90	20	20	10
Calcium	mg/L	63.6	59.6	72.6	35.3	35	33.6	22.5	40.4	53.8	84.2	96.7	24.8	0.85	1.01
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	8.39	57.5	4.79	0.13	<0.05	<0.05	3.2	<0.05	6.27	7.01	6.84	4.26	0.98	0.88
Sodium	mg/L	151	47.4	120	113	151	161	370	247	113	88.9	51.5	22.6	12.3	13.2
Iron	mg/L	0.06	<0.04	0.09	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Potassium	mg/L	20.8	11.8	27.2	29.8	54.9	56.2	49.5	64.8	21.6	13.1	9.26	2.95	3.63	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	<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	664	156	848	<1	<1	<1	<1	<1	58	657	754	590	18	8
Nickel	µg/L	<1	<1	<1	1	1	2	<1	4	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	24	11	<10
Biochemical Oxygen Demand	mg/L	<2	<2	2	<2	<2	7	<2	<2	2	3	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	7	3	15	24	30	44	11	38	8	8	4	<2	2	2
Total Organic Carbon	mg/L	4	1	8	10	12	12	6	16	4	4	2	<1	<1	<1