

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	3.81	3.91	4.04	4.77	4.72	4.71	4.14	4.76	5.64	5.33	5.47	7.49	39.42	46.01
Bicarbonate Alkalinity as CaCO ₃	mg/L	106	191	184	135	47	2	<1	<1	171	200	118	52	17	13
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	24	138	68	74	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	106	191	184	135	71	141	82	108	171	200	118	52	17	13
pH Value	pH Unit	8	7.9	7.6	8	9.3	10.4	10.4	10.9	8	7.7	7.6	6.8	5.7	5.5
Electrical Conductivity	µS/cm	837	5580	1060	964	732	934	1610	2650	14000	834	353	331	94	125
Ammonia	mg/L	0.26	1.2	1.43	0.18	0.64	2.23	6.03	4.76	0.5	<0.01	<0.01	<0.01	<0.01	0.06
Chloride	mg/L	158	1710	165	144	106	139	400	636	4400	92	23	20	15	24
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	0.04	<0.01	<0.01
Phosphorus	mg/L	0.01	0.01	0.01	0.03	<0.01	<0.01	0.01	<0.01	0.06	0.02	<0.01	0.01	<0.01	<0.01
Sulphate	mg/L	100	334	151	176	138	95	138	248	768	131	34	79	4	6
Sulphide	mg/L	<0.1	<0.1	0.2	<0.1	<0.1	4.3	4.1	2.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.4	1.2	1.5	0.4	1	2.5	6.4	4.9	0.5	<0.1	<0.1	0.2	<0.1	<0.1
Nitrate	mg/L	0.04	0.23	<0.01	<0.01	0.02	0.01	<0.01	0.07	<0.01	0.04	0.52	0.7	0.13	0.18
Total Nitrogen	mg/L	0.5	1.5	1.5	0.4	1.1	2.6	6.4	5.1	0.5	0.1	0.6	0.9	0.2	0.2
Boron	µg/L	130	720	220	230	260	260	380	210	2790	260	80	30	20	20
Calcium	mg/L	40.7	101	90.8	77	8.12	8.12	22.9	104	99.8	81.6	44.7	29.1	0.89	1.56
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	4.66	99.6	6.28	4.43	0.26	<0.05	0.06	0.07	222	6.69	2.61	4.83	1.03	1.34
Sodium	mg/L	104	850	102	100	103	140	252	362	2380	79.2	23.3	26.4	14	17.2
Iron	mg/L	<0.04	<0.04	0.08	<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	19.1	46	26.1	20.3	42.9	55.6	53.7	89.4	107	12.4	6.09	5.67	4.04	4.58
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	0.6	<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	2	10	<1	<1	<1	2	<1	<1	2	<1
Lead	µg/L	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	1	<1	<1
Manganese	µg/L	304	193	903	42	2	<1	<1	<1	224	548	6	531	10	9
Nickel	µg/L	<1	<1	<1	<1	<1	2	1	2	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	419	<10	<10	<10	33	<10	<10	11	773	<10	49	33	13
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	9	5	12	13	14	35	31	26	32	7	7	4	3	2
Total Organic Carbon	mg/L	6	2	7	5	3	7	7	6	5	4	5	1	1	2