

Licensee: Sumitomo Metal Mining Oceana P/L
CMOC Mining Pty Ltd
SC Mineral Resources Pty Ltd

Sampled: 28/03/2022 29/06/2022 12/09/2022 13/12/2022
Obtained: 31/03/2022 11/07/2022 21/09/2022 22/12/2022
Published: 19/04/2022 25/07/2022 14/10/2022 13/01/2023

EPL No.: 4784

EPA Identification no.	Minimum Frequency	Pollutant	Unit	Sample Result			
				28/03/2022	29/06/2022	12/09/2022	13/12/2022
1 (W14)	Yearly	Aluminum	mg/L	no access	0.01	0.02	0.01
	Yearly	Arsenic	mg/L	no access	0.001	0.001	0.001
	Yearly	Barium	mg/L	no access	0.008	0.024	0.079
	Yearly	Beryllium	mg/L	no access	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	no access	394	413	274
	Yearly	Cadmium	mg/L	no access	0.0001	0.0002	0.0002
	Yearly	Calcium	mg/L	no access	124	139	128
	Yearly	Chloride	mg/L	no access	1470	1370	924
	Yearly	Chromium	mg/L	no access	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	no access	0.001	0.001	0.002
	Quarterly	Conductivity	µS/cm	no access	5870	7038	4109
	Quarterly	Copper	mg/L	no access	0.006	0.016	0.008
	Yearly	Lead	mg/L	no access	0.001	0.003	0.001
	Yearly	Magnesium	mg/L	no access	188	167	118
	Yearly	Molybdenum	mg/L	no access	0.016	0.013	0.043
	Yearly	Nickel	mg/L	no access	0.001	0.01	0.003
	Quarterly	pH	pH	no access	7.32	7.73	7.78
	Yearly	Potassium	mg/L	no access	3	5	8
	Yearly	Selenium	mg/L	no access	0.01	0.01	0.01
	Yearly	Sodium	mg/L	no access	1140	1010	731
Quarterly	Standing Water Level	m	no access	270.05	270.56	272.05	
Yearly	Sulfate	mg/L	no access	1020	994	838	
Yearly	Total dissolved solids	mg/L	no access	4470	4460	2900	
Yearly	Zinc	mg/L	no access	0.029	0.044	0.018	

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2 (W19)	Yearly	Aluminum	mg/L	0.02	0.01	0.01	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.01
	Yearly	Barium	mg/L	0.15	0.137	0.142	0.087
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	234	326	405	343
	Yearly	Cadmium	mg/L	0.0002	0.0001	0.0001	0.0001
	Yearly	Calcium	mg/L	442	415	412	415
	Yearly	Chloride	mg/L	1970	1720	1820	1850
	Yearly	Chromium	mg/L	0.002	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	6423	5802	7450	5935
	Quarterly	Copper	mg/L	0.006	0.001	0.002	0.006
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	115	117	110	103
	Yearly	Molybdenum	mg/L	0.002	0.001	0.001	0.011
	Yearly	Nickel	mg/L	0.001	0.001	0.005	0.011
	Quarterly	pH	pH	7.66	7.68	7.75	7.06
	Yearly	Potassium	mg/L	13	12	12	8
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	800	859	804	836
Quarterly	Standing Water Level	m	251.71	253.20	253.70	254.29	
Yearly	Sulfate	mg/L	333	396	434	540	
Yearly	Total dissolved solids	mg/L	5170	4840	5160	4820	
Yearly	Zinc	mg/L	0.025	0.013	0.018	0.027	

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3 (W21)	Yearly	Aluminum	mg/L	0.01	0.1	0.03	0.01
	Yearly	Arsenic	mg/L	0.001	0.01	0.001	0.001
	Yearly	Barium	mg/L	0.058	0.063	0.09	0.066
	Yearly	Beryllium	mg/L	0.001	0.01	0.001	0.001
	Yearly	Bicarbonate	mg/L	56	31	81	36
	Yearly	Cadmium	mg/L	0.0001	0.001	0.0001	0.0001
	Yearly	Calcium	mg/L	1210	1610	1580	1310
	Yearly	Chloride	mg/L	9780	9010	8910	9680
	Yearly	Chromium	mg/L	0.001	0.01	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.01	0.002	0.001
	Quarterly	Conductivity	µS/cm	26215	20505	26871	25998
	Quarterly	Copper	mg/L	0.002	0.01	0.018	0.004
	Yearly	Lead	mg/L	0.001	0.01	0.001	0.001
	Yearly	Magnesium	mg/L	712	516	265	632
	Yearly	Molybdenum	mg/L	0.006	0.015	0.025	0.005
	Yearly	Nickel	mg/L	0.003	0.01	0.006	0.001
	Quarterly	pH	pH	7.47	7.52	7.54	7.54
	Yearly	Potassium	mg/L	11	31	47	10
	Yearly	Selenium	mg/L	0.01	0.1	0.01	0.01
	Yearly	Sodium	mg/L	4370	4290	3790	4080
Quarterly	Standing Water Level	m	268.512	269.072	271.342	270.372	
Yearly	Sulfate	mg/L	1900	2040	1890	2010	
Yearly	Total dissolved solids	mg/L	26700	22100	20700	22000	
Yearly	Zinc	mg/L	0.016	0.05	0.046	0.02	

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4 (W23)	Yearly	Aluminum	mg/L	no access	0.04	0.01	0.01
	Yearly	Arsenic	mg/L	no access	0.001	0.001	0.001
	Yearly	Barium	mg/L	no access	0.07	0.061	0.035
	Yearly	Beryllium	mg/L	no access	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	no access	116	132	374
	Yearly	Cadmium	mg/L	no access	0.0001	0.0001	0.0002
	Yearly	Calcium	mg/L	no access	385	384	340
	Yearly	Chloride	mg/L	no access	356	418	5100
	Yearly	Chromium	mg/L	no access	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	no access	0.001	0.001	0.046
	Quarterly	Conductivity	µS/cm	no access	3560	4782	14340
	Quarterly	Copper	mg/L	no access	0.017	0.02	0.007
	Yearly	Lead	mg/L	no access	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	no access	99	95	505
	Yearly	Molybdenum	mg/L	no access	0.055	0.051	0.007
	Yearly	Nickel	mg/L	no access	0.002	0.018	0.008
	Quarterly	pH	pH	no access	7.05	7.6	7.17
	Yearly	Potassium	mg/L	no access	60	56	7
	Yearly	Selenium	mg/L	no access	0.01	0.01	0.02
	Yearly	Sodium	mg/L	no access	443	477	2480
Quarterly	Standing Water Level	m	no access	263.578	245.358	264.758	
Yearly	Sulfate	mg/L	no access	1970	1970	1730	
Yearly	Total dissolved solids	mg/L	no access	3460	3650	10700	
Yearly	Zinc	mg/L	no access	0.083	0.036	0.065	

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5 (W25)	Yearly	Aluminum	mg/L	0.04	0.01	0.01	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.014	0.024	0.012	0.012
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	294	281	345	355
	Yearly	Cadmium	mg/L	0.0001	0.0002	0.0001	0.0001
	Yearly	Calcium	mg/L	208	175	184	184
	Yearly	Chloride	mg/L	93	154	95	79
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	2420	2052	2678	2316
	Quarterly	Copper	mg/L	0.018	0.045	0.018	0.014
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	144	136	126	130
	Yearly	Molybdenum	mg/L	0.001	0.001	0.002	0.001
	Yearly	Nickel	mg/L	0.002	0.014	0.004	0.002
	Quarterly	pH	pH	7.07	7.13	7.41	7.28
	Yearly	Potassium	mg/L	5	5	4	4
	Yearly	Selenium	mg/L	0.03	0.02	0.03	0.04
	Yearly	Sodium	mg/L	238	248	212	220
Quarterly	Standing Water Level	m	284.368	284.168	284.338	284.428	
Yearly	Sulfate	mg/L	1050	1130	1130	986	
Yearly	Total dissolved solids	mg/L	2440	2070	2190	2130	
Yearly	Zinc	mg/L	0.054	0.078	0.029	0.03	

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6 (W20)	Yearly	Aluminum	mg/L	0.01	0.03	0.02	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.01	0.012	0.023	0.015
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	484	484	567	531
	Yearly	Cadmium	mg/L	0.0004	0.0005	0.0003	0.0004
	Yearly	Calcium	mg/L	357	321	317	323
	Yearly	Chloride	mg/L	4130	3880	4060	4100
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.004	0.003	0.003	0.003
	Quarterly	Conductivity	µS/cm	12303	11697	14886	12634
	Quarterly	Copper	mg/L	0.022	0.023	0.037	0.017
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	386	343	332	338
	Yearly	Molybdenum	mg/L	0.003	0.003	0.003	0.003
	Yearly	Nickel	mg/L	0.006	0.004	0.006	0.005
	Quarterly	pH	pH	6.81	6.84	7.15	7
	Yearly	Potassium	mg/L	9	8	8	8
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	2280	1950	2040	2140
Quarterly	Standing Water Level	m	267.161	267.531	267.891	268.341	
Yearly	Sulfate	mg/L	1420	1440	1500	1430	
Yearly	Total dissolved solids	mg/L	10000	9000	9640	9110	
Yearly	Zinc	mg/L	0.065	0.086	0.052	0.038	