

Licensee:	Sumitomo Metal Mining Oceana P/L	Q1	Q2	Q3	Q4
	CMOC Mining Pty Ltd	Sampled: 27/03/2023	26/06/2023	4/08/2023	
	SC Mineral Resources Pty Ltd	Obtained: 5/04/2023	5/07/2023	14/08/2023	
EPL No.:	4784	Published: 17/04/2023	26/07/2023	16/08/2023	

EPA Identification no.	Minimum Frequency	Pollutant	Unit	Sample Result			This bore is no longer a listed monitoring point of EPL 4784 as from 1 August 2023
1 (W14)	Yearly	Aluminum	mg/L	0.01	0.02	0.01	
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	
	Yearly	Barium	mg/L	0.036	0.071	0.079	
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	
	Yearly	Bicarbonate	mg/L	368	295	306	
	Yearly	Cadmium	mg/L	0.0002	0.0002	0.0002	
	Yearly	Calcium	mg/L	137	123	154	
	Yearly	Chloride	mg/L	1050	861	888	
	Yearly	Chromium	mg/L	0.001	0.001	0.001	
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	
	Quarterly	Conductivity	µS/cm	5250	4155	4057	
	Quarterly	Copper	mg/L	0.012	0.014	0.015	
	Yearly	Lead	mg/L	0.001	0.001	0.001	
	Yearly	Magnesium	mg/L	171	112	126	
	Yearly	Molybdenum	mg/L	0.024	0.036	0.038	
	Yearly	Nickel	mg/L	0.002	0.001	0.001	
	Quarterly	pH	pH	7.6	6.89	7.56	
	Yearly	Potassium	mg/L	5	7	9	
	Yearly	Selenium	mg/L	0.01	0.01	0.01	
	Yearly	Sodium	mg/L	980	653	767	
Quarterly	Standing Water Level	m	270.93	270.36	270.10		
Yearly	Sulfate	mg/L	1350	857	747		
Yearly	Total dissolved solids	mg/L	4060	3140	2990		
Yearly	Zinc	mg/L	0.031	0.032	0.048		

Q1	Q2	Q3	Q4
Sampled:			23/10/2023
Obtained:			1/11/2023
Published:			14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
1 (W33) This is a new monitoring point bore listed under EPL 4784 as from 1 August 2023	Yearly	Aluminum	mg/L	Bore constructed Q3 2023 - no data available.	Bore constructed Q3 2023 - no data available.	Bore constructed Q3 2023 - no data available.	0.020
	Yearly	Arsenic	mg/L				0.001
	Yearly	Barium	mg/L				0.084
	Yearly	Beryllium	mg/L				0.001
	Yearly	Bicarbonate	mg/L				5
	Yearly	Cadmium	mg/L				0.0001
	Yearly	Calcium	mg/L				842
	Yearly	Chloride	mg/L				2740
	Yearly	Chromium	mg/L				0.006
	Yearly	Cobalt	mg/L				0.001
	Quarterly	Conductivity	µS/cm				7461
	Quarterly	Copper	mg/L				0.004
	Yearly	Lead	mg/L				0.001
	Yearly	Magnesium	mg/L				17
	Yearly	Molybdenum	mg/L				0.11
	Yearly	Nickel	mg/L				0.001
	Quarterly	pH	pH				10.11
	Yearly	Potassium	mg/L				42
	Yearly	Selenium	mg/L				0.01
	Yearly	Sodium	mg/L				1020
Quarterly	Standing Water Level	m					
Yearly	Sulfate	mg/L	484.000				
Yearly	Total dissolved solids	mg/L	7030.000				
Yearly	Zinc	mg/L	0.025				

	Q1	Q2	Q3	Q4
Sampled:	27/03/2023	26/06/2023	4/08/2023	23/10/2023
Obtained:	5/04/2023	5/07/2023	14/08/2023	1/11/2023
Published:	17/04/2023	26/07/2023	16/08/2023	14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
2 (W19)	Yearly	Aluminum	mg/L	0.01	0.01	0.01	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.004
	Yearly	Barium	mg/L	0.266	0.304	0.292	0.257
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	54	64	82	83
	Yearly	Cadmium	mg/L	0.0002	0.0001	0.0002	0.0001
	Yearly	Calcium	mg/L	1630	1720	1650	1820
	Yearly	Chloride	mg/L	5110	4640	4810	4760
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.003	0.001
	Quarterly	Conductivity	µS/cm	13543	13136	12051	10335
	Quarterly	Copper	mg/L	0.01	0.012	0.011	0.007
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	52	62	74	84
	Yearly	Molybdenum	mg/L	0.004	0.003	0.005	0.002
	Yearly	Nickel	mg/L	0.004	0.008	0.06	0.01
	Quarterly	pH	pH	7.04	6.54	7.04	7.29
	Yearly	Potassium	mg/L	7	6	8	8
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	1110	1180	1200	1250
	Quarterly	Standing Water Level	m	253.08	254.96	255.2	255.46
	Yearly	Sulfate	mg/L	707	747	614	606
	Yearly	Total dissolved solids	mg/L	12700	11400	11700	10400
Yearly	Zinc	mg/L	0.042	0.035	0.091	0.029	

	Q1	Q2	Q3	Q4
Sampled:	27/03/2023	26/06/2023	4/08/2023	23/10/2023
Obtained:	5/04/2023	5/07/2023	14/08/2023	1/11/2023
Published:	17/04/2023	26/07/2023	16/08/2023	14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
3 (W21)	Yearly	Aluminum	mg/L	0.01	0.01	0.01	0.1
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.01
	Yearly	Barium	mg/L	0.068	0.057	0.062	0.054
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.01
	Yearly	Bicarbonate	mg/L	96	90	88	88
	Yearly	Cadmium	mg/L	0.0003	0.0002	0.0002	0.001
	Yearly	Calcium	mg/L	1140	1130	1180	1150
	Yearly	Chloride	mg/L	8650	9590	9280	9430
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.01
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.01
	Quarterly	Conductivity	µS/cm	24112	25201	25017	22937
	Quarterly	Copper	mg/L	0.024	0.008	0.001	0.01
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.01
	Yearly	Magnesium	mg/L	762	702	748	781
	Yearly	Molybdenum	mg/L	0.004	0.006	0.004	0.01
	Yearly	Nickel	mg/L	0.004	0.001	0.001	0.01
	Quarterly	pH	pH	7.83	6.68	7.32	7.65
	Yearly	Potassium	mg/L	7	7	8	8
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.1
	Yearly	Sodium	mg/L	4370	4140	4340	4430
	Quarterly	Standing Water Level	m	270.98	270.37	270.94	270.94
	Yearly	Sulfate	mg/L	2060	2240	1460	2040
	Yearly	Total dissolved solids	mg/L	23100	28100	22600	21800
Yearly	Zinc	mg/L	0.084	0.019	0.041	0.05	

	Q1	Q2	Q3	Q4
Sampled:	27/03/2023	26/06/2023	4/08/2023	23/10/2023
Obtained:	5/04/2023	5/07/2023	14/08/2023	1/11/2023
Published:	17/04/2023	26/07/2023	16/08/2023	14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	
4 (W23)	Yearly	Aluminum	mg/L	0.01	0.02	0.01	This bore is no longer a listed monitoring point of EPL 4784 as from 1 August 2023
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	
	Yearly	Barium	mg/L	0.027	0.025	0.028	
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	
	Yearly	Bicarbonate	mg/L	426	409	426	
	Yearly	Cadmium	mg/L	0.0003	0.0003	0.0003	
	Yearly	Calcium	mg/L	350	338	362.0	
	Yearly	Chloride	mg/L	4380	4510	4730	
	Yearly	Chromium	mg/L	0.001	0.001	0.001	
	Yearly	Cobalt	mg/L	0.035	0.044	0.036	
	Quarterly	Conductivity	µS/cm	13555	13771	13488	
	Quarterly	Copper	mg/L	0.017	0.009	0.006	
	Yearly	Lead	mg/L	0.001	0.001	0.001	
	Yearly	Magnesium	mg/L	535	474	509	
	Yearly	Molybdenum	mg/L	0.006	0.007	0.007	
	Yearly	Nickel	mg/L	0.003	0.001	0.001	
	Quarterly	pH	pH	7.19	6.71	7.02	
	Yearly	Potassium	mg/L	6	5	7	
	Yearly	Selenium	mg/L	0.02	0.01	0.02	
	Yearly	Sodium	mg/L	2540	2290	2460	
Quarterly	Standing Water Level	m	264.39	264.28	264.15		
Yearly	Sulfate	mg/L	1960	2050	1840		
Yearly	Total dissolved solids	mg/L	11300	11500	10600		
Yearly	Zinc	mg/L	0.037	0.028	0.104		

	Q1	Q2	Q3	Q4
Sampled:				23/10/2023
Obtained:				1/11/2023
Published:				14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	
4 (W34) This is a new monitoring point bore listed under EPL 4784 as from 1 August 2023	Yearly	Aluminum	mg/L	Bore constructed Q3 2023 - no data available.	Bore constructed Q3 2023 - no data available.	Bore constructed Q3 2023 - no data available.	0.04
	Yearly	Arsenic	mg/L				0.001
	Yearly	Barium	mg/L				0.132
	Yearly	Beryllium	mg/L				0.001
	Yearly	Bicarbonate	mg/L				314
	Yearly	Cadmium	mg/L				0.0006
	Yearly	Calcium	mg/L				462
	Yearly	Chloride	mg/L				4190
	Yearly	Chromium	mg/L				0.001
	Yearly	Cobalt	mg/L				0.003
	Quarterly	Conductivity	µS/cm				11832
	Quarterly	Copper	mg/L				0.018
	Yearly	Lead	mg/L				0.001
	Yearly	Magnesium	mg/L				320
	Yearly	Molybdenum	mg/L				0.009
	Yearly	Nickel	mg/L				0.002
	Quarterly	pH	pH				7.41
	Yearly	Potassium	mg/L				11
	Yearly	Selenium	mg/L				0.03
	Yearly	Sodium	mg/L				2180
Quarterly	Standing Water Level	m					
Yearly	Sulfate	mg/L	940				
Yearly	Total dissolved solids	mg/L	10200				
Yearly	Zinc	mg/L	0.094				

	Q1	Q2	Q3	Q4
Sampled:	27/03/2023	26/06/2023	4/08/2023	23/10/2023
Obtained:	5/04/2023	5/07/2023	14/08/2023	1/11/2023
Published:	17/04/2023	26/07/2023	16/08/2023	14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
5 (W25)	Yearly	Aluminum	mg/L	0.01	0.01	0.02	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.012	0.018	0.018	0.015
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	345	322	345	361
	Yearly	Cadmium	mg/L	0.0001	0.0001	0.0001	0.0001
	Yearly	Calcium	mg/L	190	179	196	197
	Yearly	Chloride	mg/L	67	124	106	101
	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	2234	2395	2050	2035
	Quarterly	Copper	mg/L	0.015	0.024	0.024	0.026
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	146	137	140	145
	Yearly	Molybdenum	mg/L	0.001	0.001	0.001	0.001
	Yearly	Nickel	mg/L	0.004	0.015	0.013	0.012
	Quarterly	pH	pH	7.03	6.67	7.57	7.65
	Yearly	Potassium	mg/L	4	4	6	5
	Yearly	Selenium	mg/L	0.03	0.03	0.03	0.03
	Yearly	Sodium	mg/L	240	240	238	243
Quarterly	Standing Water Level	m	283.99	283.82	283.80	283.57	
Yearly	Sulfate	mg/L	974	1130	1010	1070	
Yearly	Total dissolved solids	mg/L	2540	2380	2030	2010	
Yearly	Zinc	mg/L	0.056	0.032	0.058	0.039	

	Q1	Q2	Q3	Q4
Sampled:	27/03/2023	26/06/2023	4/08/2023	23/10/2023
Obtained:	5/04/2023	5/07/2023	14/08/2023	1/11/2023
Published:	17/04/2023	26/07/2023	16/08/2023	14/11/2023

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
6 (W20)	Yearly	Aluminum	mg/L	0.02	0.03	0.02	0.01
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.02	0.034	0.028	0.03
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	539	521	584	572
	Yearly	Cadmium	mg/L	0.0004	0.0004	0.0003	0.0005
	Yearly	Calcium	mg/L	288	335	297	300
	Yearly	Chloride	mg/L	4020	3940	3400	3550
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.003	0.003	0.001	0.003
	Quarterly	Conductivity	µS/cm	12532	12726	11395	10396
	Quarterly	Copper	mg/L	0.023	0.033	0.026	0.026
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	314	340	315	322
	Yearly	Molybdenum	mg/L	0.005	0.008	0.004	0.004
	Yearly	Nickel	mg/L	0.003	0.006	0.01	0.01
	Quarterly	pH	pH	6.88	6.87	7.07	7.31
	Yearly	Potassium	mg/L	9	9	9	8
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	2040	2200	2110	2150
Quarterly	Standing Water Level	m	268.70	268.84	268.93	269.29	
Yearly	Sulfate	mg/L	1440	1490	1110	1420	
Yearly	Total dissolved solids	mg/L	9290	9230	8410	8580	
Yearly	Zinc	mg/L	0.067	0.087	0.057	0.078	