



Northparkes Mines
 PO Box 995 Parkes NSW 2870 Australia
 T +61 2 6861 3000 F +61 2 6861 3101

www.northparkes.com

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

	Q1	Q2	Q3	Q4
Sampled:	15/03/2021	29/06/2021	24/09/2021	6/12/2021
Obtained:	25/03/2021	8/07/2021	18/10/2021	15/12/2021
Published:	7/04/2021	21/07/2021	28/10/2021	10/01/2022

EPL No.: 4784

EPA Identification no.	Minimum Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
1 (W14)	Yearly	Aluminum	mg/L	0.03	0.03	no access	no access
	Yearly	Arsenic	mg/L	0.001	0.001	no access	no access
	Yearly	Barium	mg/L	0.008	0.01	no access	no access
	Yearly	Beryllium	mg/L	0.001	0.001	no access	no access
	Yearly	Bicarbonate	mg/L	489	506	no access	no access
	Yearly	Cadmium	mg/L	0.0001	0.0001	no access	no access
	Yearly	Calcium	mg/L	138	134	no access	no access
	Yearly	Chloride	mg/L	1490	1530	no access	no access
	Yearly	Chromium	mg/L	0.001	0.001	no access	no access
	Yearly	Cobalt	mg/L	0.001	0.001	no access	no access
	Quarterly	Conductivity	µS/cm	5029	6477.3	no access	no access
	Quarterly	Copper	mg/L	0.015	0.016	no access	no access
	Yearly	Lead	mg/L	0.001	0.001	no access	no access
	Yearly	Magnesium	mg/L	204	187	no access	no access
	Yearly	Molybdenum	mg/L	0.011	0.014	no access	no access
	Yearly	Nickel	mg/L	0.001	0.003	no access	no access
	Quarterly	pH	pH	7.06	7.31	no access	no access
	Yearly	Potassium	mg/L	4	3	no access	no access
	Yearly	Selenium	mg/L	0.01	0.01	no access	no access
	Yearly	Sodium	mg/L	1190	1130	no access	no access
Quarterly	Standing Water Level	m	266.28	266.31	no access	no access	
Yearly	Sulfate	mg/L	1040	1400	no access	no access	
Yearly	Total dissolved solids	mg/L	5180	4690	no access	no access	
Yearly	Zinc	mg/L	0.069	0.047	no access	no access	

	Q1	Q2	Q3	Q4
Sampled:	15/03/2021	29/06/2021	24/09/2021	6/12/2021
Obtained:	25/03/2021	8/07/2021	18/10/2021	15/12/2021
Published:	7/04/2021	21/07/2021	28/10/2021	10/01/2022

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	0.03
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.126	0.135	0.137	0.146
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	265	398	346	355
	Yearly	Cadmium	mg/L	0.0001	0.0001	0.0001	0.0001
	Yearly	Calcium	mg/L	421	433	390	419
	Yearly	Chloride	mg/L	1760	1970	2140	2060
	Yearly	Chromium	mg/L	0.003	0.001	0.001	0.002
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	4268.3	5973.2	6076	5794
	Quarterly	Copper	mg/L	0.005	0.001	0.001	0.002
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	115	110	111	117
	Yearly	Molybdenum	mg/L	0.038	0.001	0.001	0.001
	Yearly	Nickel	mg/L	0.001	0.001	0.001	0.001
	Quarterly	pH	pH	6.92	7.78	7.63	7.61
	Yearly	Potassium	mg/L	12	12	12	12
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	766	774	779	805
	Quarterly	Standing Water Level	m	250.32	250.96	251.55	251.85
	Yearly	Sulfate	mg/L	525	381	337	340
	Yearly	Total dissolved solids	mg/L	5060	4460	4910	4420
Yearly	Zinc	mg/L	0.025	0.011	0.021	0.027	

Q1 **Q2** **Q3** **Q4**
Sampled: 15/03/2021 29/06/2021 24/09/2021 6/12/2021
Obtained: 25/03/2021 8/07/2021 18/10/2021 15/12/2021
Published: 7/04/2021 21/07/2021 28/10/2021 10/01/2022

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
3 (W21)	Yearly	Aluminum	mg/L	0.01	0.04	0.02	0.03
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.09	0.06	0.072	0.083
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	8	29	61	55
	Yearly	Cadmium	mg/L	0.0001	0.0001	0.0001	0.0002
	Yearly	Calcium	mg/L	2020	1080	1160	1320
	Yearly	Chloride	mg/L	9280	9490	8130	7750
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.002	0.006
	Quarterly	Conductivity	µS/cm	18544	24897	21326	20817
	Quarterly	Copper	mg/L	0.009	0.021	0.018	0.017
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	256	634	187	206
	Yearly	Molybdenum	mg/L	0.02	0.005	0.02	0.029
	Yearly	Nickel	mg/L	0.002	0.002	0.004	0.004
	Quarterly	pH	pH	8.87	8.19	7.67	7.01
	Yearly	Potassium	mg/L	46	10	47	50
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	4220	3990	3360	3600
Quarterly	Standing Water Level	m	268.40	268.42	268.35	268.32	
Yearly	Sulfate	mg/L	1600	2350	1590	1500	
Yearly	Total dissolved solids	mg/L	25800	20900	20100	18300	
Yearly	Zinc	mg/L	0.019	0.148	0.076	0.094	

Q1 **Q2** **Q3** **Q4**
Sampled: 15/03/2021 29/06/2021 24/09/2021 6/12/2021
Obtained: 25/03/2021 8/07/2021 18/10/2021 15/12/2021
Published: 7/04/2021 21/07/2021 28/10/2021 10/01/2022

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
4 (W23)	Yearly	Aluminum	mg/L	0.01	0.01	no access	no access
	Yearly	Arsenic	mg/L	0.001	0.001	no access	no access
	Yearly	Barium	mg/L	0.026	0.022	no access	no access
	Yearly	Beryllium	mg/L	0.001	0.001	no access	no access
	Yearly	Bicarbonate	mg/L	442	475	no access	no access
	Yearly	Cadmium	mg/L	0.0002	0.0001	no access	no access
	Yearly	Calcium	mg/L	413	385	no access	no access
	Yearly	Chloride	mg/L	5140	5700	no access	no access
	Yearly	Chromium	mg/L	0.001	0.001	no access	no access
	Yearly	Cobalt	mg/L	0.082	0.148	no access	no access
	Quarterly	Conductivity	µS/cm	12277	15771	no access	no access
	Quarterly	Copper	mg/L	0.024	0.014	no access	no access
	Yearly	Lead	mg/L	0.001	0.001	no access	no access
	Yearly	Magnesium	mg/L	657	569	no access	no access
	Yearly	Molybdenum	mg/L	0.004	0.006	no access	no access
	Yearly	Nickel	mg/L	0.002	0.001	no access	no access
	Quarterly	pH	pH	6.62	6.82	no access	no access
	Yearly	Potassium	mg/L	7	6	no access	no access
	Yearly	Selenium	mg/L	0.02	0.02	no access	no access
	Yearly	Sodium	mg/L	2710	2570	no access	no access
Quarterly	Standing Water Level	m	260.78	261.09	no access	no access	
Yearly	Sulfate	mg/L	1880	1880	no access	no access	
Yearly	Total dissolved solids	mg/L	14300	12700	no access	no access	
Yearly	Zinc	mg/L	0.067	0.034	no access	no access	

	Q1	Q2	Q3	Q4
Sampled:	15/03/2021	29/06/2021	24/09/2021	6/12/2021
Obtained:	25/03/2021	8/07/2021	18/10/2021	15/12/2021
Published:	7/04/2021	21/07/2021	28/10/2021	10/01/2022

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
5 (W25)	Yearly	Aluminum	mg/L	0.01	0.02	0.01	0.05
	Yearly	Arsenic	mg/L	0.001	0.001	0.003	0.003
	Yearly	Barium	mg/L	0.011	0.028	0.023	0.028
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	279	288	327	306
	Yearly	Cadmium	mg/L	0.0002	0.0001	0.0001	0.0001
	Yearly	Calcium	mg/L	182	156	174	162
	Yearly	Chloride	mg/L	70	154	166	159
	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	1708.1	2153.7	2066	2144
	Quarterly	Copper	mg/L	0.028	0.056	0.065	0.051
	Yearly	Lead	mg/L	0.005	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	140	114	123	128
	Yearly	Molybdenum	mg/L	0.001	0.001	0.001	0.001
	Yearly	Nickel	mg/L	0.005	0.03	0.02	0.016
	Quarterly	pH	pH	6.89	8.05	7.88	7.75
	Yearly	Potassium	mg/L	4	4	4	4
	Yearly	Selenium	mg/L	0.02	0.02	0.02	0.02
	Yearly	Sodium	mg/L	235	227	222	226
	Quarterly	Standing Water Level	m	283.30	283.82	284.18	284.31
	Yearly	Sulfate	mg/L	1140	878	853	960
	Yearly	Total dissolved solids	mg/L	2210	1920	2040	1910
Yearly	Zinc	mg/L	0.076	0.083	0.062	0.061	

	Q1	Q2	Q3	Q4
Sampled:	15/03/2021	29/06/2021	24/09/2021	6/12/2021
Obtained:	25/03/2021	8/07/2021	18/10/2021	15/12/2021
Published:	7/04/2021	21/07/2021	28/10/2021	10/01/2022

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
				Q1	Q2	Q3	Q4
6 (W20)	Yearly	Aluminum	mg/L	0.01	0.03	0.01	0.02
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.007	0.011	0.01	0.021
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	535	512	559	541
	Yearly	Cadmium	mg/L	0.0004	0.0003	0.0003	0.0004
	Yearly	Calcium	mg/L	326	311	336	320
	Yearly	Chloride	mg/L	3680	4160	4280	4000
	Yearly	Chromium	mg/L	0.001	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.003	0.001	0.004
	Quarterly	Conductivity	µS/cm	9497.2	12417	12647	12051
	Quarterly	Copper	mg/L	0.015	0.018	0.018	0.018
	Yearly	Lead	mg/L	0.001	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	374	333	354	362
	Yearly	Molybdenum	mg/L	0.003	0.002	0.002	0.003
	Yearly	Nickel	mg/L	0.001	0.004	0.004	0.004
	Quarterly	pH	pH	6.7	7.21	7.56	7.08
	Yearly	Potassium	mg/L	8	8	8	8
	Yearly	Selenium	mg/L	0.01	0.01	0.01	0.01
	Yearly	Sodium	mg/L	2220	2060	2190	2220
	Quarterly	Standing Water Level	m	266.74	266.84	266.96	266.92
	Yearly	Sulfate	mg/L	1330	1460	1400	1310
	Yearly	Total dissolved solids	mg/L	10200	8990	9210	9160
Yearly	Zinc	mg/L	0.04	0.057	0.07	0.072	