

# Northparkes Operations



Licensee: Evolution Mining (Northparkes) Pty Ltd  
 Sumitomo Metal Mining Oceana P/L  
 SC Mineral Resources Pty Ltd

EPL No.: 4784

Q1 Q2 Q3 Q4  
 Sampled: 20/02/2024 12/06/2024 11/07/2024  
 Obtained: 28/02/2024 21/06/2024 23/07/2024  
 Published: 8/03/2024 5/07/2024 2/10/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
1 (W33)	Yearly	Aluminum	mg/L	0.01	0.05	0.03	
	Yearly	Arsenic	mg/L	0.001	0.001	0.001	
	Yearly	Barium	mg/L	0.094	0.094	0.088	
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	
	Yearly	Bicarbonate	mg/L	7.0	15	16	
	Yearly	Cadmium	mg/L	0.0001	0.0002	0.0002	
	Yearly	Calcium	mg/L	896.0	904.0	854	
	Yearly	Chloride	mg/L	3,640.0	3080.0	3000	
	Yearly	Chromium	mg/L	0.004	0.003	0.002	
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	
	Quarterly	Conductivity	µS/cm	8,682.0	8,144.0	8116	
	Quarterly	Copper	mg/L	0.003	0.019	0.024	
	Yearly	Lead	mg/L	0.001	0.001	0.001	
	Yearly	Magnesium	mg/L	18.0	31.0	16	
	Yearly	Molybdenum	mg/L	0.073	0.112	0.107	
	Yearly	Nickel	mg/L	0.001	0.002	0.001	
	Quarterly	pH	pH	7.99	7.36	7.55	
	Yearly	Potassium	mg/L	46.0	46.0	39	
	Yearly	Selenium	mg/L	0.01	0.01	0.01	
	Yearly	Sodium	mg/L	1,080.0	1,160.0	934	
Quarterly	Standing Water Level	m	259.79	260.23	264.203		
Yearly	Sulfate	mg/L	542.0	460.0	474		
Yearly	Total dissolved solids	mg/L	8,390.0	6,740.0	6980		
Yearly	Zinc	mg/L	0.031	0.109	0.124		

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EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result			
2 (W19)	Yearly	Aluminum	mg/L	0.01	0.02	0.01	
	Yearly	Arsenic	mg/L	0.004	0.004	0.005	
	Yearly	Barium	mg/L	0.275	0.184	0.238	
	Yearly	Beryllium	mg/L	0.001	0.001	0.001	
	Yearly	Bicarbonate	mg/L	79	91.0	96.0	
	Yearly	Cadmium	mg/L	0.0004	0.0003	0.0003	
	Yearly	Calcium	mg/L	1,710	1,480.0	1,930.0	
	Yearly	Chloride	mg/L	4,560	4,700.0	4,950.0	
	Yearly	Chromium	mg/L	0.001	0.001	0.002	
	Yearly	Cobalt	mg/L	0.001	0.001	0.001	
	Quarterly	Conductivity	µS/cm	13,012	11,982.0	13,133.0	
	Quarterly	Copper	mg/L	0.029	0.007	0.014	
	Yearly	Lead	mg/L	0.001	0.001	0.001	
	Yearly	Magnesium	mg/L	100	103.0	109.0	
	Yearly	Molybdenum	mg/L	0.004	0.003	0.004	
	Yearly	Nickel	mg/L	0.009	0.005	0.007	
	Quarterly	pH	pH	7.26	7.18	7.27	
	Yearly	Potassium	mg/L	10	9.0	10.0	
	Yearly	Selenium	mg/L	0.01	0.01	0.01	
	Yearly	Sodium	mg/L	1200	1,140.0	1,180.0	
Quarterly	Standing Water Level	m	255.94	256.33	255.85		
Yearly	Sulfate	mg/L	574	769.0	624.0		
Yearly	Total dissolved solids	mg/L	9,220	11,500.0	12,000.0		
Yearly	Zinc	mg/L	0.14	0.142	0.212		



	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>
<b>Sampled:</b>	20/02/2024	12/06/2024	17/09/2024	
<b>Obtained:</b>	28/02/2024	21/06/2024	1/10/2024	
<b>Published:</b>	8/03/2024	5/07/2024	2/10/2024	

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result		
				Q1	Q2	Q3
3 (W21)	Yearly	Aluminum	mg/L	0.01	0.02	0.03
	Yearly	Arsenic	mg/L	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.051	0.042	0.072
	Yearly	Beryllium	mg/L	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	114.0	126.0	129.0
	Yearly	Cadmium	mg/L	0.0002	0.0003	0.0003
	Yearly	Calcium	mg/L	1,140.0	986.0	1,220.0
	Yearly	Chloride	mg/L	9,130.0	9,480.0	9,810.0
	Yearly	Chromium	mg/L	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	26,592.0	24,601.0	26,882.0
	Quarterly	Copper	mg/L	0.01	0.007	0.022
	Yearly	Lead	mg/L	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	784.0	662.0	722.0
	Yearly	Molybdenum	mg/L	0.004	0.003	0.003
	Yearly	Nickel	mg/L	0.002	0.002	0.005
	Quarterly	pH	pH	7.44	7.73	7.28
	Yearly	Potassium	mg/L	6.0	6.0	7.0
	Yearly	Selenium	mg/L	0.01	0.01	0.01
	Yearly	Sodium	mg/L	4,410.0	3,790.0	4,120.0
	Quarterly	Standing Water Level	m	271.052	270.97	271.002
	Yearly	Sulfate	mg/L	2,200.0	2,150.0	2,010.0
	Yearly	Total dissolved solids	mg/L	25,400.0	22,900.0	22,800.0
Yearly	Zinc	mg/L	0.051	0.162	0.26	

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>
<b>Sampled:</b>	20/02/2024	11/06/2024	11/07/2024	
<b>Obtained:</b>	28/02/2024	21/06/2024	23/07/2024	
<b>Published:</b>	8/03/2024	5/07/2024	2/10/2024	

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result		
				Q1	Q2	Q3
4 (W34)	Yearly	Aluminum	mg/L	0.02	0.02	0.01
	Yearly	Arsenic	mg/L	0.001	0.002	0.001
	Yearly	Barium	mg/L	0.143	0.158	0.128
	Yearly	Beryllium	mg/L	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	325.0	342.0	326.0
	Yearly	Cadmium	mg/L	0.0008	0.001	0.001
	Yearly	Calcium	mg/L	519.0	510.0	470.0
	Yearly	Chloride	mg/L	5,170.0	4,640.0	4,910.0
	Yearly	Chromium	mg/L	0.001	0.003	0.001
	Yearly	Cobalt	mg/L	0.005	0.004	0.004
	Quarterly	Conductivity	µS/cm	14,063.0	12,967.0	13,610.0
	Quarterly	Copper	mg/L	0.031	0.067	0.056
	Yearly	Lead	mg/L	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	306.0	344.0	297.0
	Yearly	Molybdenum	mg/L	0.013	0.01	0.012
	Yearly	Nickel	mg/L	0.002	0.006	0.003
	Quarterly	pH	pH	7.1	6.73	6.84
	Yearly	Potassium	mg/L	13.0	21.0	10.0
	Yearly	Selenium	mg/L	0.02	0.03	0.02
	Yearly	Sodium	mg/L	2,240.0	2,430.0	2,160.0
	Quarterly	Standing Water Level	m	259.45	259.458	260.448
	Yearly	Sulfate	mg/L	765.0	938.0	1,250.0
	Yearly	Total dissolved solids	mg/L	10,800.0	9,760.0	10,200.0
Yearly	Zinc	mg/L	0.097	0.277	0.233	



**Q1**                      **Q2**                      **Q3**  
**Sampled:**            20/02/2024            12/06/2024            16/08/2024  
**Obtained:**           28/02/2024            21/06/2024            27/08/2024  
**Published:**           8/03/2024            5/07/2024            2/10/2024

EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result		
				Q1	Q2	Q3
5 (W25)	Yearly	Aluminum	mg/L	1.5	0.02	0.01
	Yearly	Arsenic	mg/L	0.002	0.001	0.001
	Yearly	Barium	mg/L	0.296	0.021	0.053
	Yearly	Beryllium	mg/L	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	369.0	324.0	341.0
	Yearly	Cadmium	mg/L	0.0001	0.0001	0.0001
	Yearly	Calcium	mg/L	220.0	177.0	194.0
	Yearly	Chloride	mg/L	94.0	129.0	71.0
	Yearly	Chromium	mg/L	0.016	0.001	0.001
	Yearly	Cobalt	mg/L	0.001	0.001	0.001
	Quarterly	Conductivity	µS/cm	2,845.0	2,247.0	2,348.0
	Quarterly	Copper	mg/L	0.02	0.018	0.021
	Yearly	Lead	mg/L	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	1.0	140.0	142.0
	Yearly	Molybdenum	mg/L	0.032	0.001	0.001
	Yearly	Nickel	mg/L	0.002	0.01	0.012
	Quarterly	pH	pH	7.57	8.08	7.92
	Yearly	Potassium	mg/L	64.0	5.0	4.0
	Yearly	Selenium	mg/L	0.01	0.03	0.03
	Yearly	Sodium	mg/L	404.0	240.0	240.0
Quarterly	Standing Water Level	m	284.258	284.278	284.228	
Yearly	Sulfate	mg/L	1,170.0	1,100.0	1,020.0	
Yearly	Total dissolved solids	mg/L	2,290.0	2,050.0	2,060.0	
Yearly	Zinc	mg/L	0.033	0.11	0.057	

**Q1**                      **Q2**                      **Q3**                      **Q4**  
**Sampled:**            20/02/2024            12/06/2024            17/09/2024  
**Obtained:**           28/02/2024            21/06/2024            1/10/2024  
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EPA Identification no.	Monitoring Frequency	Pollutant	Unit	Sample Result		
				Q1	Q2	Q3
6 (W20)	Yearly	Aluminum	mg/L	0.01	0.02	0.02
	Yearly	Arsenic	mg/L	0.001	0.001	0.001
	Yearly	Barium	mg/L	0.034	0.031	0.045
	Yearly	Beryllium	mg/L	0.001	0.001	0.001
	Yearly	Bicarbonate	mg/L	530.0	590.0	590.0
	Yearly	Cadmium	mg/L	0.0004	0.0005	0.0004
	Yearly	Calcium	mg/L	326.0	291.0	327.0
	Yearly	Chloride	mg/L	3,390.0	3,560.0	3,750.0
	Yearly	Chromium	mg/L	0.001	0.001	0.001
	Yearly	Cobalt	mg/L	0.003	0.002	0.002
	Quarterly	Conductivity	µS/cm	12,006.0	11,077.0	12,285.0
	Quarterly	Copper	mg/L	0.028	0.025	0.036
	Yearly	Lead	mg/L	0.001	0.001	0.001
	Yearly	Magnesium	mg/L	330.0	301.0	311.0
	Yearly	Molybdenum	mg/L	0.004	0.003	0.004
	Yearly	Nickel	mg/L	0.01	0.009	0.012
	Quarterly	pH	pH	7.47	7.53	7.48
	Yearly	Potassium	mg/L	8.0	8.0	9.0
	Yearly	Selenium	mg/L	0.01	0.01	0.01
	Yearly	Sodium	mg/L	2,160.0	1,990.0	2,070.0
Quarterly	Standing Water Level	m	269.291	269.501	269.581	
Yearly	Sulfate	mg/L	1,530.0	1,400.0	1,380.0	
Yearly	Total dissolved solids	mg/L	8,360.0	8,320.0	8,310.0	
Yearly	Zinc	mg/L	0.053	0.12	0.165	