

Northparkes Mines
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Quarter 4 2021

EPL No.: 4784

EPA Identification no.	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
1 (W14)	Quarterly	Conductivity Copper pH Standing Water Level	- - - -	µS/cm mg/L m	Pollution monitoring of W14 was not able to be undertaken during the reporting period as a result of a regulatory imposed exclusion area, following concerns with TSF2. The EPA have been regularly consulted on the issue, including the restricted access to the monitoring locations, and have been advised that monitoring will recommence following the removal of the exclusion area.
2 (W19)	Quarterly	Conductivity Copper pH Standing Water Level	5,794 0.002 7.61 251.85	µS/cm mg/L m	The Q4 2021 water monitoring results for W19 bore are in line with historical water quality results. Since the previous monitoring period, and unless stated, results remain within internal trigger values: - Conductivity decreased 282 µS/cm (previously 6,076 µS/cm). - Copper concentration increased 0.001 previously 0.001 mg/L. - pH decreased 0.02 (previously 7.63). - Relative standing water level increased 0.30 m (previously 250.55 m). These minor variances are typically the result of natural groundwater migrations and are comparable with previous reporting periods.

EPA Identification no.	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
3 (W21)	Quarterly	Conductivity Copper pH	20,817 0.017 7.01	µS/cm mg/L	The Q4 2021 water monitoring results for W21 bore are largely in line with historical water quality results. Since the previous monitoring period, and unless stated, results remain within internal trigger values: - Conductivity decreased by 509 µS/cm (previously 21,326), remaining slightly above the Stage 1 trigger value. - Copper concentration decreased slightly by 0.001 mg/L (previously 0.018). - pH decreased by 0.66 (previously 7.67) and below the Stage 2 trigger level. - Relative standing water level decreased 0.03 m (previously 268.35)
		Standing Water Level	268.32	m	Results are stabilising following the implementation of a low flow sampling methodology and will continue to be monitored during the 2022 reporting period with actions reassessed if ongoing instability occurs. All other minor variances are typically the result of natural groundwater migrations and are comparable with previous reporting periods.
4 (W23)	Quarterly	Conductivity Copper pH	- - -	µS/cm mg/L	Pollution monitoring of W23 was not able to be undertaken during the reporting period as a result of a regulatory imposed exclusion area, following concerns with TSF2. The EPA have been regularly consulted on the issue, including the restricted access to the monitoring locations, and have been advised that monitoring will recommence following the removal of the exclusion area.
		Standing Water Level	-	m	

EPA Identification no.	Monitoring Frequency	Pollutant	Measurement	Unit	Comments
5 (W25)	Quarterly	Conductivity Copper pH	2,144 0.051 7.75	µS/cm mg/L	<p>The Q4 2021 water monitoring results for W25 bore are largely in line with historical water quality results.</p> <p>Since the previous monitoring period, and unless stated, results remain within internal trigger values:</p> <ul style="list-style-type: none"> - Conductivity increased 78 µS/cm (previously 2,066 µS/cm). - Copper concentration decreased 0.014 mg/L (previously 0.065 mg/L) and remains above the Stage 2 trigger level of 0.03 mg/L. The result is following the implementation of a low flow sampling methodology and will be monitored during the 2022 reporting period with actions reassessed if ongoing instability occurs. - pH decreased 0.13 (previously 7.88). - Relative standing water level increased 0.13 m (previously 284.18 m). <p>These minor variances are typically the result of natural groundwater migrations and are comparable with previous reporting periods.</p>
		Standing Water Level	284.31	m	
6 (W20)	Quarterly	Conductivity Copper pH	12,051 0.018 7.08	µS/cm mg/L	<p>The Q4 2021 water monitoring results for W20 bore are in line with historical water quality results.</p> <p>Since the previous monitoring period, and unless stated, results remain within internal trigger values:</p> <ul style="list-style-type: none"> - Conductivity decreased by 596 µS/cm (previously 12,647 µS/cm). - Copper concentration remained the same at 0.018 mg/L. - pH decreased 0.48 (previously 7.56). - Relative standing water level slightly decreased 0.04 m (previously 266.96m). <p>These minor variances are typically the result of natural groundwater migrations and are comparable with previous reporting periods.</p>
		Standing Water Level	266.92	m	