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**Sampled:** 14/12/2016  
**Obtained:** 29/12/2016

**Licensee:** Sumitomo Metal Mining Oceana P/L  
 CMOC Mining Pty Ltd  
 SC Mineral Resources Pty Ltd  
**EPL No.:** 4784

Sampling point	Monitoring Frequency	Pollutant	Measurement Unit	Comments
W14	Quarterly	Conductivity	13000 µS/cm	The Q4 2016 water monitoring results for W14 bore are inline with historical water quality. There is minimal elevation in the standing water level from previous quarter which was 22.8 m. The conductivity slightly increased from last quate which recorded 12054.9 µS/cm . The pH concentration increased from last quarter which was 7.55, similarly copper concentration increased from last reporting period, which was 0.001 mg/L. These variances is the result of higher than average rainfall for the quarter, resulting in higher infiltration rate compared to previous quarter.
W14	Quarterly	Copper	0.124 mg/L	
W14	Quarterly	pH	7.78	
W14	Quarterly	Standing Water Level	21.3 m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement Unit	Comments
W19 (MB21)	Quarterly	Conductivity	6400 µS/cm	The Q4 2016 water monitoring results for W19 bore are inline with historical water quality. the pH, EC and Copper concentrations recorded higher values compared to previous reporting period. There was a minor decline in the standing water level from previous quarter which was 34.11m. The pH observed a slight increase from last quarter which was 7.75, copper concentration increased from last quarter which was 0.002 mg/L . Similarly, the conductivity increased from the last quarter which was 5627 µS/cm. These variances is the result of higher than average rainfall over the reporting period.
W19 (MB21)	Quarterly	Copper	0.189 mg/L	
W19 (MB21)	Quarterly	pH	8.12	
W19 (MB21)	Quarterly	Standing Water Level	34.7 m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement Unit	Comments
W21 (MB23)	Quarterly	Conductivity	14300 µS/cm	The Q4 2016 water monitoring results for W21 bore are inline with historical water quality. There is an decrease in the standing water level from previous quarter which recorded 12.98m. The pH concentrations decreased from last quarter which was 11.09, both copper and conductivity concentrations increased from last quarter, copper was 0.006 mg/l and conductivity 13692.3 µS/cm.
W21 (MB23)	Quarterly	Copper	0.077 mg/L	
W21 (MB23)	Quarterly	pH	9.7	
W21 (MB23)	Quarterly	Standing Water Level	13.01 m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement Unit	Comments
W23 (MB25)	Quarterly	Conductivity	16510 µS/cm	The Q4 2016 water monitoring results for W23 bore are inline with historical water quality, with exception of Conductivity recording higher concentrations from last reporting period, which recorded a value of 15145.8 µS/cm. pH and copper concentrations also had a slight increase from the the last quarter - pH was 8.05 and copper concentrations was 0.005 mg/L. The standing water level is inline with long term averages, and was a slight increase int he standing water level which was 26.9 m from last reporting period.
W23 (MB25)	Quarterly	Copper	0.007 mg/L	
W23 (MB25)	Quarterly	pH	8.24	
W23 (MB25)	Quarterly	Standing Water Level	26.3 m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement Unit	Comments
W25 (MB27)	Quarterly	Conductivity	1450 µS/cm	The Q4 2016 water monitoring results for W25 bore are inline with historical water quality. There was a significant increase in the standing water level from previous quarter which was 1.8 m. The conductivity concentration decreased slightly from the last quarter, conductivity was 1650.7 µS/cm. The copper and pH concentrations increased from the last quarter. Copper concentrations recorded 0.004 mg/L and pH 8.18
W25 (MB27)	Quarterly	Copper	0.178 mg/L	
W25 (MB27)	Quarterly	pH	9.01	
W25 (MB27)	Quarterly	Standing Water Level	2.1 m	

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Sampling point	Monitoring Frequency	Pollutant	Measurement Unit	Comments
W20 (MB22)	Quarterly	Conductivity	16500 µS/cm	The Q4 2016 water monitoring results for W20 bore are inline with historical water quality. There was an increase in conductivity concentrations from previous quarter which was 15773.1 µS/cm. The copper concentrations increased to the previous quarter which recorded 0.001 mg/L. pH increased slightly from last reporting period which recorded 7.13. There was an decrease in the standing water level from previous quarter which was 17.2 m.
W20 (MB22)	Quarterly	Copper	0.035 mg/L	
W20 (MB22)	Quarterly	pH	7.8	
W20 (MB22)	Quarterly	Standing Water Level	16.8 m	