

Challenger Mines Pty Ltd

Environment Protection Licence 10265 Quarterly and Monthly Monitoring Data Summary

June 2017



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1. INTRODUCTION

Environmental Protection Licence (**EPL**) holders are required under the *Protection of the Environment Operations Act 1997* to make publicly available their monitoring results for those parameters specified in the EPL. This document has been prepared to satisfy this requirement.

Challenger Mines operations are conducted in accordance with EPL 10265. The licence details are as for License Holder:Licence Number:Challenger Mines Pty Limited10265				
Premises:	Challenger Mines 33 Ryans Road Adelong 2729			
Access to Licence:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=10265&id=10265& option=licence&searchrange=licence⦥=POEO licence&prp=no&status=Issued			
Monitoring Locations:	See main text and Appendix A			

This document provides a summary of environmental monitoring data sampled as prescribed by EPL 10265 for March 2017 (**Reporting Period**). Monitoring data provided is as follows:

- Air quality
- Surface water quality
- Ground water quality.

Monitoring Data Collected: June/July 2017



2. AIR QUALITY

Under EPL 10265 CMPL is required to undertake dust monitoring at EPA Monitoring Points 11,12,13,14, and 15 (**Appendix A**)

2.1 Dust

Pollutant:

Unit of measure:

Monitoring location:

Total Solid Particles

Grams per square metre per month

See Table 1 and Appendix A.

Monitoring frequency required by licence:

Monthly

Table 1. Dust Monitoring Summary

		Description	EPL 11	EPL 12	EPL 15	EPL 14	EPL 13
		Sample					
		Date	05/06/2017				
	Units		Result	Result	Result	Result	Result
Sampling							
Period in							
Days	days		30	N/R	N/R	N/R	N/R
Total							
Insoluble							
Solids	mg		1	N/R	N/R	N/R	N/R
Total							
Insoluble							
Solids							
Per							
Sampling	g/m²/30						
Period	days		<0.1	N/R	N/R	N/R	N/R

N/R = not recorded

.



3. SURFACE WATER

Monitoring frequency required by licence:

Under EPL 10265 CMPL is required to undertake surface water monitoring at EPA Monitoring Points 3,4,5, and 6 (**Appendix A**).

Pollutant:

Unit of measure:

Monitoring location:

Various see Table 2

See Table 2

See Table2 and Appendix A.

Quarterly and weekly at EPL 3 during discharge



Table 2 Surface Water Monitoring Summary

Quarterly collection of surface water was undertaken in the following month July 2017.



4. Ground Water

Under EPL 10265 CMPL is required to undertake ground water monitoring at EPA Monitoring Points 7,8,9 and 10 (**Appendix A**).

Pollutant:	Various see Table 3
Unit of measure:	See Table 3
Monitoring location:	See Table3 and Appendix A.
Monitoring frequency required by licence:	Quarterly

All groundwater bores in this quarter were found to be dry.

Table 3 Ground Water Monitoring Requirements

Pollutant	Units of measure	Frequency	Sampling Method
Bicarbonate	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Copper	milligrams per litre	Quarterly	Grab sample
Cyanide (total)	milligrams per litre	Quarterly	Total cyanide from water samples - CN-1 recovery by 20th Ed. APHA 4500- CN-1 method B3.j - Alternative method and analysis by 20th Ed. APHA 4500 - CN-1 method E, D or F
Magnesium	milligrams per litre	Quarterly	Grab sample
Methylene Blue Active Substances	milligrams per litre	Quarterly	Grab sample
рН	рН	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Quarterly	Grab sample



Appendix A

EPL monitoring Locations for Dust,

Groundwater and Surface Waters



EPL SAMPLING LOCATIONS FOR WATER AND DUST MONITORING