

Notice

Environmental Protection Act 1994

Notice of decision - Temporary emissions licence

This statutory notice is issued by the administering authority pursuant to section 357E of the Environmental Protection Act 1994, to advise you of a decision or action.

To: Round Oak Minerals Pty Ltd
Suite 3, Level 32, 10 Eagle Street
BRISBANE CITY, QLD 4000

Email: Jeff.Robinson@roundoakmin.com.au
Attention: Jeff Robinson

Your reference: EPML00876013
Our reference: 101/0008742

Application for temporary emissions licence (TEL) for EPML00876013.

The application for a TEL that was received by the administering authority on 3 February 2019, has been granted as submitted.

This temporary emissions licence commences on 4 February 2019 and ends on 11 February 2019 (the '**TEL Period**').

The licence permits the following emission:

Releases of water from Taipan/Paddock Lode Pits Spillway (RP2) to Coppermine Creek for the duration of the TEL Period.

The TEL overrides the following conditions of environmental authority EPML00876013 (the EA) for the duration of the TEL Period as they relate to releases from RP2 as defined in Schedule C - Table C1 (Contaminant Release Points) of the EA:

- (C1) Contaminants that will, or have the potential to cause environmental harm, must not be released directly or indirectly to any waters except as permitted under the conditions of this environmental authority.
- (C3) The release of contaminants to waters from the release points must be monitored at the locations specified in Schedule C - Table C1 (Contaminant Release Points) for each quality characteristic and at the frequency specified in Schedule C - Table C2 (Contaminant Release Limits).

Schedule C - Table C1 (Contaminant Release Points)

Release Point	Easting (GDA94)	Northing (GDA94)	Contaminant Source and Location, and Description of Release Point	Receiving Waters Description
RP1	449629.00	7707104.00	Discharge from Storm Pond 5 spillway	Coppermine Creek
RP2	448321.00	770814.00	Paddock Lode / Taipan Pit Spillway	Coppermine Creek

- (C4) The release of contaminants to waters must not exceed the release limits stated in Schedule C - Table

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C2 (Contaminant Release Limits) for each quality characteristic.

Schedule C - Table C2 (Contaminant Release Limits)

Contaminant (mg/L unless specified otherwise) ¹	Release Limits	Monitoring Frequency
Electrical conductivity	1500 or 20 x 80 th percentile of applicable reference site value, whichever is higher ⁵ .	Daily during release (the first sample must be taken within 2 hours of commencement of release)
pH	6.0 or 20 th percentile of applicable reference site value, whichever is higher. 7.5 or 80 th percentile of applicable reference site value, whichever is higher.	
Sulphate as SO ₄ ²⁻	545 ² or 80 th percentile of applicable reference site concentration ⁵ .	
Aluminium	1.1 ³ or 20 x 80 th percentile of applicable reference site concentration, whichever is higher ⁵ .	
Arsenic (AsV)	0.26 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Cadmium	0.004 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Chromium (CrVI)	0.02 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Cobalt	0.001 ⁶ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Copper	0.028 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Lead	0.068 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Nickel	0.22 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Mercury	0.012 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Zinc	0.16 ³ or 20 x 80 th percentile of applicable reference site concentration ⁵ , whichever is higher.	
Cyanide (free) (as un-ionised HCN; measured as (CN))	0.14 ³	
Cyanide (total)	1.67 ⁴	

Notes for Table C2:

1. All metals and metalloids must be measured and reported as both total (unfiltered) and dissolved (field filtered) levels;
2. For the protection of 95% of species (slightly to moderately disturbed aquatic ecosystem).
Source: Australasian Bulletin of Ecotoxicology and Environmental Chemistry (2016), Table 3
<<https://australasia.setac.org/wp-content/uploads/ABEEC-v3-p1.pdf>>
3. Twenty (20) times contaminant level based on ANZECC (2000), Table 3.4.1, 95% aquatic species protection level for slightly to moderately disturbed ecosystem.
4. Twenty (20) times Australian Drinking Water Guidelines, version 3.3 (2011), Table 10.6
5. Reference site concentration determined from reference site specified in Table C8 at time of release.
6. Twenty (20) times contaminant level based on ANZECC (2000), section 8.3.7.1 low reliability metals and metalloids.

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- (C6) Notwithstanding any other condition of this environmental authority, the release of contaminants to waters must only take place during periods of natural flow events specified as minimum flow in Schedule C - Table C3 (Contaminant Release During Flow Events) for the contaminant release point(s) specified in Schedule C - Table C1 (Contaminant Release Points).

Schedule C - Table C3 (Contaminant Release during Flow Events)

Receiving water description	Release point	Gauging station description	Easting (GDA94)	Northing (GDA94)	Minimum Flow in Receiving Water Required for a Release Event	Flow recording Frequency
Coppermine Creek	Discharge from Spillway of Stormwater Pond 5	Gauging station 1	449583.00	7706956.00	The release comprising less than 5% of the natural flow. ¹	Continuous (minimum daily)
Coppermine Creek	Discharge from Spillway of Paddock Lode Pit					

Notes for Table C3:

1. The volume of flow can be determined by height of water or flow. The actual flow must be a quantifiable measure.

- (C7) At the time of release the water flow volume in the respective receiving water must be at least twenty (20) times the volume at which respective treated waste waters are released.
- (C8) The daily quantity of contaminants released from each release point must be measured and recorded at the monitoring points in Schedule C - Table C1 (Contaminant Release Points).
- (C9) Releases to waters must be undertaken so as not to cause erosion of the bed and banks of the receiving waters, or cause a material build-up of sediment in such waters.

The following conditions apply to this licence:

(Condition TEL1) Contaminants that will, or have the potential to cause environmental harm must not be released directly or indirectly to any waters except as permitted under the conditions of the EA or as authorised under this TEL.

(Condition TEL2) The release of contaminants to waters must only occur from the release points specified in Table 1 (Contaminant Release Points).

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(Condition TEL3) The release of contaminants to waters from the release points must be monitored at the locations specified in Table 1 (Contaminant Release Points) for each quality characteristic and at the frequency specified in Table 2 (Contaminant Release Limits).

Table 1 (Contaminant Release Points)

Release Point	Easting (GDA94)	Northing (GDA94)	Contaminant Source and Location, and Description of Release Point	Receiving Waters Description
RP2	448321.00	770814.00	Paddock Lode / Taipan Pit Spillway	Coppermine Creek

(Condition TEL4): Releases from RP2 must only take place during periods of natural flows within Coppermine Creek.

(Condition TEL5) Releases from RP2 must not exceed the release limits stated in Table 2 (Contaminant Release Limits) for each quality characteristic.

Table 2 (Contaminant Release Limits)

Contaminant (mg/L unless specified otherwise) ¹	Release Limits	Monitoring Frequency
Electrical conductivity	1500	Daily during release (once safe access can be obtained)
pH	6.0 (minimum) and 9.0 (maximum)	
Sulphate as SO ₄ ²⁻	545	
Aluminium	1.1	
Arsenic (AsV) (total)	0.26	
Cadmium (total)	0.004	
Chromium (CrVI) (total)	0.02	
Cobalt (total)	0.001	
Copper(total)	0.028	
Lead (total)	0.068	
Nickel (total)	0.22	
Mercury (total)	0.012	
Zinc (total)	0.16	
Cyanide (total)	0.004	

1. All metals and metalloids must be measured and reported as both total (unfiltered) and dissolved (field filtered) levels.

(Condition TEL6) The administering authority must be notified as soon as practicable, but within 24 hours of becoming aware of any contravention of a TEL condition.

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(Condition TEL7) Landholders and Traditional Owners downstream of RP2 must be notified of the release and provided with the release water quality monitoring results.

(Condition TEL8) Monitoring results must be provided to the administering authority within 10 business days of the end of the TEL Period.

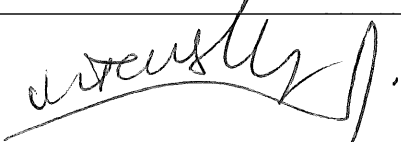
Grounds for the Decision

The administering authority has decided to approve the TEL application pursuant to section 357C of the *Environmental Protection Act 1994*. The decision has been made in accordance with the criteria detailed under s 357D of the *Environmental Protection Act 1994*.

The terms requested in the application were clarified with representatives of the applicant on 4 February 2019.

In approving the application, the administering authority has imposed additional conditions pursuant to s 357E and 357G of the *Environmental Protection Act 1994*. The additional conditions have been imposed to ensure that any release conducted under the TEL is undertaken in a manner that protects all environmental values of waters.

Should you have any queries in relation to this notice, Luke Johnston on telephone 07 4222 5354 would be happy to assist you.



Signature

4 February 2019

Date

Filiz Tansley
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

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