

Environment Protection Licence

Licence - 20192

Licence Details	
Number:	20192
Anniversary Date:	10-January

Licensee
MT BOPPY RESOURCES PTY LTD
GRAFTON BOND BLDG LVL 5 201 KENT ST
SYDNEY NSW 2000

Premises
MT BOPPY GOLD MINE
GILGUNNIA-CANBELEGO ROAD
CANBELEGO NSW 2835

Scheduled Activity
Chemical storage
Crushing, grinding or separating
Mineral processing
Mining for minerals

Fee Based Activity	Scale
Crushing, grinding or separating	> 100000-500000 T annual processing capacity
General chemicals storage	0-5000 kL storage capacity
Mineral processing	> 100000-500000 T annual processing capacity
Mining for minerals	> 100000-500000 T annual production capacity

Region
Central West
L102, 346 PANORAMA AVENUE
BATHURST NSW 2795
Phone: (02) 6333 3800
Fax: (02) 6333 3809
PO Box 1388
BATHURST NSW 2795



Environment Protection Licence

Licence - 20192

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	7
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	10
L1 Pollution of waters	10
L2 Concentration limits	10
L3 Waste	11
L4 Noise limits	11
L5 Blasting	13
L6 Potentially offensive odour	13
4 OPERATING CONDITIONS	14
O1 Activities must be carried out in a competent manner	14
O2 Maintenance of plant and equipment	14
O3 Dust	14
O4 Processes and management	14
O5 Other operating conditions	15
5 MONITORING AND RECORDING CONDITIONS	15
M1 Monitoring records	15
M2 Requirement to monitor concentration of pollutants discharged	15
M3 Testing methods - concentration limits	18
M4 Environmental monitoring	18
M5 Recording of pollution complaints	19



Environment Protection Licence

Licence - 20192

M6	Telephone complaints line	19
M7	Blasting	19
6	REPORTING CONDITIONS	20
R1	Annual return documents	20
R2	Notification of environmental harm	21
R3	Written report	21
R4	Other reporting conditions	22
7	GENERAL CONDITIONS	22
G1	Copy of licence kept at the premises or plant	22
G2	Signage	22
DICTIONARY	23
	General Dictionary	23

Environment Protection Licence

Licence - 20192



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 20192

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

MT BOPPY RESOURCES PTY LTD
GRAFTON BOND BLDG LVL 5 201 KENT ST
SYDNEY NSW 2000

subject to the conditions which follow.

Environment Protection Licence

Licence - 20192

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Chemical storage	General chemicals storage	0 - 5000 kL storage capacity
Mineral processing	Mineral processing	> 100000 - 500000 T annual processing capacity
Mining for minerals	Mining for minerals	> 100000 - 500000 T annual production capacity

A1.2 Notwithstanding A1.1, the scale of the land-based extractive activity authorised under this licence must not exceed 500,000 tonnes per annum, being the amount equivalent to the extraction limit approved by the development consent granted under the *Environmental Planning and Assessment Act 1979* for the premises specified in A2.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
MT BOPPY GOLD MINE
GILGUNNIA-CANBELEGO ROAD
CANBELEGO
NSW 2835
LOT 7301 DP 1170536
MT BOPPY MINESITE LOCATED ON GOLD LEASES (GL'S) 5848, 5898, 3255, 5836, MINING PURPOSE LEASE 240 AND MINING LEASE 311 AND MINING LEASE APPLICATION 281

Environment Protection Licence

Licence - 20192



A3 Information supplied to the EPA

- A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

- P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Surface Water Monitoring		Upstream of control site (SW1) - external to tenements, as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
4	Surface Water Monitoring		Downstream site (SW2) - downstream limits of tenements, as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.

Environment Protection Licence

Licence - 20192



5	Surface Water Monitoring		In pit water body/sump (SW3) - existing baseline pre-mining and post mining groundwater condition expression, as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
6	Surface Water Monitoring		Upslope of influence of TSF11 and WRD3 (SW4) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
10	Discharge and Surface Water Monitoring Basin	Discharge and Surface Water Monitoring Basin	Dirty Water Mine Dam (SW5) - receiving runoff from the WRE incorporating PAF encapsulation as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
11	Discharge and Surface Water Monitoring Basin	Discharge and Surface Water Monitoring Basin	Sediment Basin 1 (SW6) - receiving runoff from the site office and workshop as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
12	Discharge and Surface Water Monitoring Basin	Discharge and Surface Water Monitoring Basin	Sediment Basin 2 (SW7) - receiving runoff from the WRE receiving non-acid forming material as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
20	Groundwater Monitoring		Upslope of TSF3 (PZ4) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
21	Groundwater Monitoring		Upslope of TSF11 (PZ1) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
23	Groundwater Monitoring and Production Bore		South of pit area (PBP17) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.

Environment Protection Licence

Licence - 20192



24	Groundwater Monitoring		Adjacent to production bore PB17 (PBP18) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
25	Groundwater Monitoring		Adjacent to Production Bore PB17 (PBP19) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
26	Groundwater Monitoring		Adjacent to Production Bore PB17 (PBP20) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
28	Groundwater Conditions Downslope of WRE		Groundwater conditions downslope of WRE (PZ3) - as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
29	Discharge and Surface Water Monitoring Basin	Discharge and Surface Water Monitoring Basin	Sediment Basin 3 (SW8) - Receiving runoff from the WRE receiving non-acid forming material as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.

P1.3 The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

Noise/Weather

EPA identification no.	Type of monitoring point	Location description
19	Noise monitoring	Nearest sensitive receptor - occupied residence (N1), As shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.
27	Meteorological Station	Weather Station is located adjacent to Dust monitoring location (D1) as shown on map titled "Mt Boppy Mine Site, Figure 2 Monitoring Locations" as provided in the OEMP Version 4, dated 12 August 2015.

Environment Protection Licence



Licence - 20192

3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.
- L2.4 Water and/or Land Concentration Limits

POINT 10,11,12,29

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50
Turbidity	nephelometric turbidity units				25

- L2.5 The limits specified under Condition L2.4 for the sediment basins identified as EPA licence discharge points 11, 12, 29 do not apply when the discharge occurs solely as a result of a rainfall event measured at the premises which exceeds;
- a total of 33.8 millimetres of rainfall over any consecutive 5 day period.

Environment Protection Licence

Licence - 20192

Note: A 33.8 mm rainfall depth is defined by the publication Managing Urban Stormwater: Soils and Construction (Landcom, 4th Edition, July 2006) as the rainfall depth in millimetres for a 90th percentile 5 day rainfall event for the 'Northwestern, Southwestern and Far Western Plains' (Nyngan) consistent with the storage capacity (recommended minimum design criteria) for Type D sediment retention basins as described in Managing Urban Stormwater Volume 2E: Mines and Quarries (DECC 2008).

L2.6 The concentration limit for total suspended solids stipulated by condition L2.4 for EPA identification points 11, 12, 29 is deemed not to have been breached where:

a) the water discharged is covered by condition L2.5; or

b) when not covered by condition L2.5, the water discharged (in accordance with licence conditions O5.3 and O5.4) is within the pH range 6.5-8.5 and has a turbidity of no more than 40 NTU at the time of the discharge; and

c) the EPA is advised within 3 working days of the completion of the sample testing and analysis as required by condition M2.2 of any results above the licence limit.

Note: *The purpose of condition L2.6 is to expediate the assessment and subsequent discharge of the clarified water from the stormwater control structures (sediment ponds).*

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence under the Protection of the Environment Operations Act 1997.

This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if it requires an environment protection licence under the Protection of the Environment Operations Act 1997.

L3.2 This condition only applies to the storage, treatment, processing, reprocessing or disposal of waste at the premises if those activities require an environment protection licence.

L4 Noise limits

L4.1 Noise generated at the premises must not exceed the noise limits in the Table below.

Location	Day LAeq (15 minute)	Evening LAeq(15 minute)	Night LAeq (15 minute)	Night LA1 (1 minute)
EPA Licence Point 19 (N1)	35	35	35	45

L4.2 However, the licensee may exceed the noise limits in the table above if the residential receiver has been granted acquisition rights in any current consent, or occurs on land owned and occupied by the licensee,

Environment Protection Licence



Licence - 20192

or if the licensee has a written negotiated noise agreement with any landowner for higher noise limits and a copy of this agreement has been forwarded to the EPA.

Note: Noise generated by the project is to be measured in accordance with conditions L4.5 to L4.7 and M4.1 below.

L4.3 For the purpose of Noise Limits:

- a) Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays,
- b) Evening is defined as the period from 6pm to 10pm,
- c) Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays,
- d) LAeq(15minute) is defined as the equivalent continuous 'A' weighted sound pressure level- the energy average of the noise measured over a 15 minute period, and
- e) LA1 (1 minute) is defined as the sound pressure level exceeded for one percent of a 1 minute measurement period.

L4.4 The noise limits set out in the Noise Limits table apply under all meteorological conditions except for the following:

- a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or
- b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
- c) Stability category G temperature inversion conditions.

For the purposes of this condition:

- a) Data recorded by the meteorological station identified as EPA Identification Point 27 must be used to determine meteorological conditions; and
- b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.

L4.5 To determine compliance:

- a) with the Leq(15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located:
 - i) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
 - ii) within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable
 - iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve.
- b) with the LA1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling façade.
- c) with the noise limits in the Noise Limits table, the noise measurement equipment must be located:
 - i) at the most affected point at a location where there is no dwelling at the location; or
 - ii) at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.

L4.6 A non-compliance of condition L4.1 will still occur where noise generated from the premises in excess of the appropriate limit is measured:

- at a location other than an area prescribed by conditions L4.5(a) and L4.5(b); and/or
- at a point other than the most affected point at a location.

Environment Protection Licence



Licence - 20192

- L4.7 For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

L5 Blasting

- L5.1 The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five percent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.2 The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.3 The ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five percent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.4 The ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.5 Blasting at the premises may only take place between 9:00am-5:00pm Monday to Friday. Blasting is not permitted on Saturdays, Sundays or public holidays.
- L5.6 Blasting outside of the hours specified in L5.5 can only take place with the written approval of the Environment Protection Authority (EPA).

- Note: 1. The airblast overpressure and groundvibration levels in conditions L6.3 to L6.6 do not apply at noise sensitive locations that are owned by the licensee or subject to a private agreement, relating to airblast overpressure and ground vibration levels, between the licensee and land owner.
2. "Noise sensitive locations" includes buildings used as a residence, hospital, school, child care centres, places of public worship and nursing homes. A noise sensitive location includes the land within 30 metres of the building.

L6 Potentially offensive odour

- L6.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

- Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the

Environment Protection Licence



Licence - 20192

emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

L6.2 No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.

O3.2 Trucks entering and leaving the premises that are carrying loads of dust generating materials must have their loads covered at all times, except during loading and unloading.

O3.3 All areas in or on the premises must be maintained in a condition that prevents or minimises the emission into the air of air pollutants (which includes dust).

O3.4 Any activity in or on the premises must be carried out by such practicable means as to prevent or minimise the emission into the air of air pollutants (which includes dust).

O4 Processes and management

O4.1 All chemicals, fuels and explosives must be handled and stored in a bunded area which complies with the specifications of the relevant Australian Standard and legislative requirements.

O4.2 Contingency and emergency management plans must be developed and implemented for the spill of any chemical and fuel.

Environment Protection Licence

Licence - 20192



O5 Other operating conditions

- O5.1 Storage and use of sodium cyanide onsite is prohibited unless the licensee obtains written prior approval from the EPA.

Management of Sediment Ponds

- O5.2 The sediment pond identified as EPA identification number (licence discharge points) 11, 12, 29 under condition P1.2 must be drained or pumped out as necessary to maintain each basins design storage capacity, within 5 days following rainfall.
- O5.3 Water discharged to comply with condition O5.5 may only be discharged to waters from sediment basins identified under licence discharge points 11, 12, 29 where the water complies with the discharge limits specified under condition L2.4 for licence discharge points 11, 12, 29.
- O5.4 The licensee must undertake maintenance as necessary to desilt all basins identified as under licence discharge points 11, 12, 29 in order to retain each basins design storage capacity.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- in a legible form, or in a form that can readily be reduced to a legible form;
 - kept for at least 4 years after the monitoring or event to which they relate took place; and
 - produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- the date(s) on which the sample was taken;
 - the time(s) at which the sample was collected;
 - the point at which the sample was taken; and
 - the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

Environment Protection Licence

Licence - 20192

M2.2 Water and/ or Land Monitoring Requirements

POINT 3,4,6,10

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium	milligrams per litre	Special Frequency 1	Grab sample
Arsenic	milligrams per litre	Special Frequency 1	Grab sample
Cadmium	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Carbonate	milligrams per litre	Special Frequency 1	Grab sample
Chlorine	milligrams per litre	Special Frequency 1	Grab sample
Copper	milligrams per litre	Special Frequency 1	Grab sample
Electrical conductivity	microsiemens per centimetre	Special Frequency 1	In situ
Iron	milligrams per litre	Special Frequency 1	Grab sample
Lead	milligrams per litre	Special Frequency 1	Grab sample
Magnesium	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	In situ
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Zinc	milligrams per litre	Special Frequency 1	Grab sample

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium	milligrams per litre	Special Frequency 2	Grab sample
Arsenic	milligrams per litre	Special Frequency 2	Grab sample
Cadmium	milligrams per litre	Special Frequency 2	Grab sample
Calcium	milligrams per litre	Special Frequency 2	Grab sample
Carbonate	milligrams per litre	Special Frequency 2	Grab sample
Chlorine	milligrams per litre	Special Frequency 2	Grab sample
Chromium	milligrams per litre	Special Frequency 2	Grab sample
Copper	milligrams per litre	Special Frequency 2	Grab sample
Cyanide (total)	milligrams per litre	Special Frequency 2	Grab sample
Electrical conductivity	microsiemens per centimetre	Special Frequency 2	In situ
Flow	litres	Special Frequency 2	Flow meter and continuous logger
Iron	milligrams per litre	Special Frequency 2	Grab sample
Lead	milligrams per litre	Special Frequency 2	Grab sample
Magnesium	milligrams per litre	Special Frequency 2	Grab sample
Nickel	milligrams per litre	Special Frequency 2	Grab sample
pH	pH	Special Frequency 2	In situ
Sodium	milligrams per litre	Special Frequency 2	Grab sample

Environment Protection Licence

Licence - 20192

Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample
Zinc	milligrams per litre	Special Frequency 2	Grab sample

POINT 11,12,29

Pollutant	Units of measure	Frequency	Sampling Method
Electrical conductivity	microsiemens per centimetre	Daily during any discharge	In situ
Oil and Grease	milligrams per litre	Daily during any discharge	Grab sample
pH	pH	Daily during any discharge	In situ
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample
Turbidity	nephelometric turbidity units	Daily during any discharge	Grab sample

POINT 20,21,23,24,25,26,28

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 3	Grab sample
Aluminium	milligrams per litre	Special Frequency 3	Grab sample
Arsenic	milligrams per litre	Special Frequency 3	Grab sample
Bicarbonate	milligrams per litre	Special Frequency 3	Grab sample
Cadmium	milligrams per litre	Special Frequency 3	Grab sample
Calcium	micrograms per litre	Special Frequency 3	Grab sample
Carbonate	milligrams per litre	Special Frequency 3	Grab sample
Chlorine	milligrams per litre	Special Frequency 3	Grab sample
Copper	milligrams per litre	Special Frequency 3	Grab sample
Cyanide (total)	milligrams per litre	Special Frequency 3	Grab sample
Cyanide (weak acid dissociable)	milligrams per litre	Special Frequency 3	Grab sample
Electrical conductivity	microsiemens per centimetre	Special Frequency 3	In situ
Iron	milligrams per litre	Special Frequency 3	Grab sample
Lead	milligrams per litre	Special Frequency 3	Grab sample
Magnesium	milligrams per litre	Special Frequency 3	Grab sample
Manganese	milligrams per litre	Special Frequency 3	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 3	Grab sample
pH	pH	Special Frequency 3	In situ
Potassium	milligrams per litre	Special Frequency 3	Grab sample
Redox potential	-	Special Frequency 3	Grab sample
Sodium	milligrams per litre	Special Frequency 3	Grab sample
Standing Water Level	metres	Special Frequency 3	In situ
Sulfate	milligrams per litre	Special Frequency 3	Grab sample

Environment Protection Licence



Licence - 20192

Total dissolved solids	milligrams per litre	Special Frequency 3	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 3	Special Method 3
Zinc	micrograms per litre	Special Frequency 3	Grab sample

M2.3 For the purpose of the table above:

Special Frequency 1 : Monthly where water is present.

Special Frequency 2 : Yearly where water is present.

Special Frequency 3 : Inspect yearly and sample and analyse where groundwater is present.

M3 Testing methods - concentration limits

M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Environmental monitoring

M4.1 Requirement to Monitor Noise

To assess compliance with the condition L4.1, attended noise monitoring must be undertaken in accordance with Conditions L4.5 and:

a) at each one of the locations listed in Condition L4.1;
 b) occur annually in a reporting period;
 c) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of:

- 1.5 hours during the day;
- 30 minutes during the evening; and
- 1 hour during the night.

d) occur on three consecutive operating days.

e) when the mine is operational.

Note: Attended noise monitoring is not required at residential receivers on licensee owned and occupied land or if the licensee has a written negotiated noise agreement with any landowner for higher noise limits, and a copy of this agreement has been forward to the EPA.

Environment Protection Licence



Licence - 20192

M5 Recording of pollution complaints

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- the date and time of the complaint;
 - the method by which the complaint was made;
 - any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - the nature of the complaint;
 - the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until three months after the date of the issue of this licence.

M7 Blasting

- M7.1 To determine compliance with conditions L5.1 to 5.4:
- Airblast overpressure and ground vibration levels must be measured and electronically recorded for monitoring point 19 for the parameters specified in Column 1 of the table below; and
 - The licensee must use the units of measure, sampling method, and sample at the frequency specified opposite in the other columns.

Parameter	Units of Measure	Frequency	Sampling Method
Airblast Overpressure	Decibels (linear Peak)	All Blasts	Australian Standard AS2187.2-2006
Ground Vibration Peak Velocity	Millimetres/second	All Blasts	Australian Standard AS2187.2-2006

Environment Protection Licence



Licence - 20192

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the

Environment Protection Licence



Licence - 20192

Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,

and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- a) the cause, time and duration of the event;
- b) the type, volume and concentration of every pollutant discharged as a result of the event;
- c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

Environment Protection Licence

Licence - 20192



R4 Other reporting conditions

R4.1 Reporting Fauna Deaths or Injury

The licensee must report any incident of death or injury (including bogging or miring) of fauna (avian or terrestrial) associated with the Tailing Impoundment or tailings runoff dam by telephoning the EPA's Pollution Line 131 555 as soon as the licensee becomes aware of the incident.

The licensee must provide written details of the notification with respect of the above condition to the EPA within 7 days of the date which the incident occurred

R4.2 A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the yearly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:

- a) an assessment of compliance with noise limits presented in the Noise Limits table; and
- b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in the Noise Limits table.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Signage

G2.1 Each monitoring and discharge point must be marked by a sign that indicates the EPA point identification number.

Environment Protection Licence

Licence - 20192

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 20192

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



Licence - 20192

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Bradley Tanswell

Environment Protection Authority

(By Delegation)

Date of this edition: 10-January-2013

End Notes

2	Licence varied by notice	1529276 issued on 27-Oct-2015
3	Licence varied by notice	1537159 issued on 20-Jun-2016
4	Licence transferred through application	1543973 approved on 24-Aug-2016 , which came into effect on 24-Aug-2016
5	Licence varied by notice	1544001 issued on 21-Oct-2016
6	Licence varied by notice	1546697 issued on 01-Dec-2016
7	Licence varied by notice	1548273 issued on 25-Jan-2017
8	Licence varied by notice	1566717 issued on 20-Feb-2019