Licence - 12799

Licence Details			
Number:	12799		
Anniversary Date:	21-December		
<u>Licensee</u>			
TRONOX MINING AUSTRALIA LIMITED			
PO BOX 444			
BROKEN HILL NSW 2880			
Premises			
SNAPPER MINE	SNAPPER MINE		
NOB ROAD			

POONCARIE NSW 2648

Scheduled Activity

Crushing, grinding or separating

Metallurgical activities

Mining for minerals

Fee Based Activity

Crushing, grinding or separating

Metal waste generation

Mining for minerals

Region

Regional West - Griffith Suites 7-8, Level 1 Griffith City Plaza, 130-140 Banna Avenue GRIFFITH NSW 2680 Phone: (02) 6969 0700 Fax: (02) 6969 0710

PO Box 397

GRIFFITH NSW 2680

Sepa

<u>Scale</u>	
> 500000-2000000 T annual processing capacity	
> 100 T annual volume of waste generated or stored	
> 5000000 T annual production capacity	

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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).





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:

TRONOX MINING AUSTRALIA LIMITED

PO BOX 444

BROKEN HILL NSW 2880

subject to the conditions which follow.

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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	> 500000 - 2000000 T annual processing capacity
Metallurgical activities	Metal waste generation	> 100 T annual volume of waste generated or stored
Mining for minerals	Mining for minerals	> 5000000 T annual production capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SNAPPER MINE
NOB ROAD
POONCARIE
NSW 2648
LOT 1927 DP 763905, LOT 1929 DP 763907
MLA 210 AND MLA 272

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity	
Chemcial storage	
Concrete Works	
Sewerage treatment	

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Waste disposal (application to land)

Waste processing (non-thermal treatment)

A4 Information supplied to the EPA

A4.1 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 points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

		Air	
EPA identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Dust monitoring		Identified as DG01 in Figure 4-6 of Snapper Mineral Sands Project Environmental Assessment dated January 2007
4	Dust Monitoring		Identified as DG02 in Figure 4-6 of Snapper Mineral Sands Project Environmental Assessment dated January 2007
5	Dust Monitoring		Identified as DGW in Figure 4-6 of Snapper Mineral Sands Project Environmental Assessment dated January 2007
6	Dust Monitoring		Identified as DGT in Figure 4-6 of Snapper Environmental Assessment Environmental Assessment dated January 2007

- P1.2 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.
- P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring

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and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
7	Ground Water		Identified as SM2 recieved by EPA on 30 May 2012 and in EPA file as DOC12/22510
8	Ground water		Identified as SM3 recieved by EPA on 30 May 2012 and in EPA file as DOC12/22510
9	Ground water		Identified as SM4 recieved by EPA on 30 May 2012 and in EPA file as DOC12/22510

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 Waste

- L2.1 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.
- L2.2 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.
- L2.3 The licensee must ensure that only the following types of waste are disposed of at the premises:

Waste able to be landfilled.

L2.4 1. Waste generated outside the premises from the processing of mineral concentrates produced at the premises or the Ginkgo Mine, AND

 Waste that is assessed as General Solid Waste (non-putrescible), following the technical procedure outlined in Waste Classification Guidelines, Part 1:Classifying Waste or that is specified as General Solid Waste (non-putrescible), in Schedule 1 of the Protection of the Environment Operations Act 1997; OR
 Waste that is assessed as hazardous waste on the basis it contains radioactive substances from the premises and except for this radioactive component would be classified as General Solid Waste (non-putrescible), following the technical assessment procedure outlined in Waste Classification Guidelines, Part 1: Classifying waste.

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- Note: Waste permitted to be disposed at the premises must comply with item 1 and at least one other item in this list, either item 2 or 3.
- Note: Condition O5 requires waste permitted to be disposed at the premises to be processed to a solid waste prior to being landfilled.
- L2.5 The total tonnage of waste disposed of at the premises must not exceed 130,000 tonnes/per annum.
- L2.6 Waste tyres stockpiled on the premises must:
 - (a) not exceed fifty (50) tonnes of waste tyres at any one time;
 - (b) be located in a clearly defined area;
 - (c) be managed to prevent any tyres from catching fire; and

(d) be managed in accordance with Fire and Rescue NSW's Guideline for Bulk Storage of Rubber Tyres (December 2014).

Note: Waste tyres generated on site can be used for civil engineering structures and road making activities in accordance with " The recovered tyres order and exemption 2014" and is valid until revoked by the EPA.

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 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

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O3.3 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading or whilst transporting HMC between Snapper and Ginkgo sites only.

O4 Processes and management

Waste Management Plan

- O4.1 The licensee must prepare and implement a Waste Management Plan for the premises.
- Note: The Waste Management Plan must be prepared and implemented to ensure compliance with the conditions of this Licence and relevant environment legislation.

Radiation Management Plan

- O4.2 The licensee must prepare and implement a Radiation Managment Plan for the premises.
- Note: The Radiation Management plan must be prepared and implemented to ensure compliance with this Licence and relevant environment legislation.

Erosion and Sediment Management Plan

- O4.3 The licensee must prepare and implement a Erosion and Sediment Management Plan for the premises.
- Note: The Erosion and Sediment Managment Plan must be prepared and implemented to ensure compliance with the conditions of this Licence and relevant environment legislation.

O5 Waste management Waste Landfilling

O5.1 Waste must be landfilled in a manner to ensure that:

(a) the average concentration of radioactive material in the landfill at the premises will not exceed the average concentration of radioactive material in the original orebody;

(b) the radiation level of any material deposited to land is no greater than 0.7 microGray per hour measured 1 metre vertically above the surface of the material being deposited, and

(c) the topsoil of the landfilled area has an average salinity level no greater than the average salinity level of topsoil in other parts of the premises.

5 Monitoring and Recording Conditions

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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:
 - a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) 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:
 - a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) 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:
- M2.2 Air Monitoring Requirements

POINT 3,4,5,6

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Quarterly	Australian Standard 3580.10.1-2003

M2.3 Water and/ or Land Monitoring Requirements

POINT 7,8,9

Pollutant	Units of measure	Frequency	Sampling Method
Standing Water Level	metres	Quarterly	Inspection
Total dissolved solids	milligrams per litre	Quarterly	Representative sample

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M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or

b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or

c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

- M3.2 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.
- Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M4 Recording of pollution complaints

- M4.1 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.
- M4.2 The record must include details of the following:
 - a) the date and time of the complaint;
 - b) the method by which the complaint was made;

c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;

d) the nature of the complaint;

e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and

f) if no action was taken by the licensee, the reasons why no action was taken.

- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 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

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by the vehicle or mobile plant, unless otherwise specified in the licence.

- M5.2 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.
- M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

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 notification that the Annual Return is due.

- 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 to 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
- 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.

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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 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.

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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.

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.

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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
АМ	Together with a number, means an ambient air monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.
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
ЕРА	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

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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 Environmen t 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		
тм	Together with a number, means a test method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.		

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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 Craig Bretherton

Environment Protection Authority

(By Delegation)

Date of this edition: 21-December-2007

End Notes

1	Licence varied by correction to table of contents, issued on 09-Jan-2009, which came into effect on 09-Jan-2009.		
2	Licence varied by notice	1506384 issued on 10-Jul-2012	
3	Licence varied by notice	1507283 issued on 10-Jul-2012	
4	Licence varied by notice	1582370 issued on 26-Aug-2019	

- 5 Licence format updated on 08-Apr-2020
- 6 Licence varied by notice 1600019 issued on 22-Sep-2020