

Environment Protection Licence



Licence - 212

Licence Details

Number:	212
Anniversary Date:	01-November

Licensee

BORAL CEMENT LTD
 PO BOX 42
 WENTWORTHVILLE NSW 2145

Premises

40 MALDON BRIDGE ROAD
 MALDON NSW 2571

Scheduled Activity

Cement or Lime works

Fee Based Activity

Scale

Cement or lime production	> 500000 T produced
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Region

Metropolitan - Illawarra
 Level 3, NSW Govt Offices, 84 Crown Street
 WOLLONGONG NSW 2500
 Phone: (02) 4224 4100
 Fax: (02) 4224 4110
 PO Box 513 WOLLONGONG EAST
 NSW 2520

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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); and
- 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).

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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:

BORAL CEMENT LTD
PO BOX 42
WENTWORTHVILLE NSW 2145

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
Cement or Lime works	Cement or lime production	> 500000 T produced

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
40 MALDON BRIDGE ROAD
MALDON
NSW 2571
LOT 2 DP 216580, LOT 1 DP 231892, LOT 2 DP 231892, LOT 1 DP 608195

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 points referred to in the table below are identified in this licence for the purposes of

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monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Air Emissions	Air Emissions	Emission from No2 Cement Mill Baghouse as described as plant exhaust stack 5 on map titled "Environment Control GE-M-838-14477 Rev C" dated 2-7-2002.
2	Air Emissions	Air Emissions	Emission from No 3 Cement Mill Precipitator described as plant exhaust stack 6 on map "Environment Control GE-M-838-14477 Rev C" dated 2-7-2002
3	Air Emissions	Air Emissions	Emission from precipitator on No 3 Clinker Kiln, described as plant exhaust Stack 1 on map titled "Environment Control GE-M-838-14477 Rev C" dated 2-7-2002
5	Air Emissions	Air Emissions	Emissions from Dryer Stack described as plant exhaust stack 8 on map titled "Environment Control GE-M-838-14477 Rev E" dated 5-9-2005 (available in DEC file 300702A3/03)

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.

P1.3 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.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Water Discharge	Water Discharge	Overflow from Sediment Dam (West A) as shown in drawing No. "Environment Control GE-M-838-14477 Rev C" dated 2-7-2002

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 Load limits

L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must

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not exceed the load limit specified for the assessable pollutant in the table below.

- L2.2 The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.

Assessable Pollutant	Load limit (kg)
Coarse Particulates (Air)	30000.00
Fine Particulates (Air)	170000.00
Lead (Air)	
Mercury (Air)	
Nitrogen Oxides (Air)	900000.00
Sulfur Oxides (Air)	975000.00

Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

L3 Concentration limits

- L3.1 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.
- L3.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L3.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table.
- L3.4 Air Concentration Limits

POINT 1

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Total Solid Particles	milligrams per cubic metre	100			

POINT 2

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Total Solid Particles	milligrams per cubic metre	100			

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POINT 3

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Total Solid Particles	milligrams per cubic metre	200			
Nitrogen Oxides	milligrams per cubic metre	2500			

POINT 5

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Total Solid Particles	milligrams per cubic metre	30			

L3.5 Water and/or Land Concentration Limits

POINT 4

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Biochemical oxygen demand	milligrams per litre				20
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				30
Turbidity	nephelometric turbidity units				150

Note: Discharge Point 3 (Kiln No. 3) emission limits for total solid particles and nitrogen oxides are interim emission limits and will be reviewed following the outcomes of the Stage 2 Dispersion Modelling study due to be submitted to the EPA on 31 March 2015.

For the purposes of total solid particles and nitrogen oxides, at Discharge Point 3 (Kiln No. 3) and in accordance with the *Protection of the Environment Operations (Clean Air) Regulation 2010*, the activity or plant defined by the licence at this location is taken to belong to Group 2 until 29 May 2015 or unless otherwise approved in writing by the EPA.

4 Operating Conditions

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

O3.2 The raw material dry-mix storage bunkers must be maintained in a condition that effectively eliminates wind generated dust emissions.

O3.3 Dust collection systems with bag type dust collectors must be provided to all potential sources of dust production at the new bagging and palletising plant.

O4 Other operating conditions

O4.1 Construction Noise Management Protocol

A construction noise management protocol shall be prepared by the licensee and submitted to the EPA for its review before any construction work is undertaken at the site. The protocol shall include details about:

- compliance standards;
- community consultation;
- complaints handling monitoring/system;
- site contact person to follow up complaints;
- mitigation measures;
- the design/orientation of the proposed mitigation methods demonstrating best practice;
- construction times;
- contingency measures where noise complaints are received.

O4.2 Stormwater/sediment control – Construction Phase

The licensee shall prepare and implement a Soil and Water Management Plan (SWMP) for the site, and provide a copy of the SWMP to the EPA for its review. before any construction work is undertaken at the

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site. The plan must describe measures that will be employed to minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during construction activities. The SWMP shall be prepared in accordance with the requirements for such plans outlined in Managing Urban Stormwater: Soils and Construction (Landcom, 2004) (available from the Department of Housing).

O4.3 Stormwater/sediment control – Operation Phase

The licensee must prepare and implement a Stormwater Management Plan (SMP) for the site before starting the operation of the updated plant. The SMP must be submitted to the EPA, for its review, as soon as it has been prepared.

Implementation of the SMP must mitigate the impacts of stormwater runoff from and within the premises following the completion of construction activities. The SMP shall be consistent with the stormwater management plan for the catchment and the guidance contained in Managing Urban Stormwater: Council Handbook (available from the EPA).

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:

M2.2 Air Monitoring Requirements

POINT 1

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Pollutant	Units of measure	Frequency	Sampling Method
Opacity	percent Opacity	Continuous	In line instrumentation
Solid Particles	milligrams per cubic metre	Yearly	TM-15

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Opacity	percent Opacity	Continuous	In line instrumentation
Solid Particles	milligrams per cubic metre	Yearly	TM-15

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Nitrogen Oxides	milligrams per cubic metre	Yearly	TM-11
Solid Particles	milligrams per cubic metre	Continuous	Special Method 1

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Total Solid Particles	milligrams per cubic metre	Yearly	TM-15

M2.3 Water and/ or Land Monitoring Requirements**POINT 4**

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Turbidity	nephelometric turbidity units	Special Frequency 1	Grab sample

M2.4 For the purposes of the Table above, Special Frequency 1 means the collection of samples within one hour of the commencement of any discharge. However, the licensee is not taken to have breached this condition if no more than 4 samples per calendar month were collected in the case of frequent discharges.

Special Method 1 means continuously in accordance with US EPA Performance Specification 11

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Specifications and Test Procedures for Particulate Matter Continuous Emission Monitoring Systems at Stationary Sources and yearly in accordance with TM 15).

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.

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".

- 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: Test Method - Load Limit

M4 Environmental monitoring

- M4.1 Monthly dust deposition must be monitored in accordance with AS/NZS 3580.10.1-2003 and AS/NZS 3580.1.1.2007 at each of the six dust monitoring sites shown on the Site drawing provided with the Boral letter dated 8 December 2010.

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:
- 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.

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M5.3 The record must be produced to any authorised officer of the EPA who asks to see them.

M5.4 The record of a complaint must be kept for at least 4 years after the complaint was made.

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 3 months after:

a) the date of the issue of this licence or

b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

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:
a) a Statement of Compliance; and
b) a Monitoring and Complaints Summary.

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.

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.

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.

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

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

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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 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 Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:
- a) the assessable pollutants for which the actual load could not be calculated; and
 - b) the relevant circumstances that were beyond the control of the licensee.
- R1.7 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.
- R1.8 Within the Annual Return, the Statement 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.
- R1.9 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

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.

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- 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:
- the cause, time and duration of the event;
 - the type, volume and concentration of every pollutant discharged as a result of the event;
 - 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;
 - 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;
 - action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - 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.

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 Other general conditions

G2.1 Completed Pollution Studies and Reduction Programs (PRPs)

PRP	Description	Completed Date
PRP 1 - Control of fugitive dust emissions from the premises	Control of fugitive dust emissions from the premises.. To reduce dust emissions from the site; To comply with the requirements of the DEC and provide a better environment for the neighbouring residents.(*)	17-September-2006

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PRP 2 - Continuous Emissions Monitoring System	PRP 2 - Report on the Installation of a Continuous Emissions Monitoring System for Particulate Matter. Improve the technical means of emissions monitoring.(*)	30-December-2009
PRP 4 Install New Sampling Port in # 3 Kiln Stack	Install new sampling port in the Number 3 Kiln Stack (LDP3) that is fully compliant with the requirements of the 'Approved methods for the modelling and assessment of air pollutants in NSW' and 'Approved methods for the sampling and analysis of air pollut	29-September-2011
PRP 5 Install New Continuous Particle Monitor	The accuracy of emissions monitoring in the # 3 Kiln Stack can be improved by replacing the continuous opacity monitor. Boral will install a Continuous Particle Monitor in a location compliant with the 'Approved Methods for Sampling and analysis of Air Po	24-September-2013
PRP 6 Stage 1 Dispersion Modelling	Boral must complete Iso-Kinetic stack testing at the compliant monitoring location, and carry out a stage 1 Air Impact Assessment against the relevant glc. The air impact assessment will inform any application for revised interim stack emission limits for	30-November-2011
PRP 8 Kiln NOX and TSP Emission Reduction Project	During 2010 and 2011 Boral has carried out a Kiln NOX and TSP emissions reduction project. The EPA recognises the importance of continued investigation into emissions reductions. This PRP formalises the requirement for continued Emissions Reductions Proje	28-November-2013
PRP 3 Preparation of a Quality Assurance Plan	The objective of this pollution reduction program (PRP) is to ensure ongoing validation of the continuous particle monitor and to optimise the ability of the licensee to maintain an accurate correlation between opacity and solid particle emissions in Kiln	30-December-2009

8 Pollution Studies and Reduction Programs

U1 PRP 7 Stage 2 Dispersion Modelling

U1.1 The Stage 1 Dispersion Modelling and Air Impact Assessment that was required under PRP 6 was based on a limited data set. Greater resolution and accuracy will be obtained by carrying out a Stage 2 Air Impact Assessment using a more comprehensive data set, including continuous emissions data, and stack test data obtained over a longer period of time from a fully compliant monitoring location.

Boral Cement will complete a Stage 2 Dispersion Model and Air Impact Assessment to validate the results obtained from the Stage 1 Air Impact Assessment. The Stage 2 Dispersion Model and Air Impact Assessment must be informed by at least 6 months of continuous emissions data from the Continuous Particle Monitor and at least 3 individual iso-kinetic samples collected from the stack under normal operational conditions.

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The air impact assessment must comply fully with the *'Approved Methods for the Modelling and Assessment of Air Pollutants in NSW'*

The current mode of campaign manufacturing of clinker at the premises entails a production run for approximately 20 days followed by a "down" period of approximately 35 days. To fulfil the requirements of PRP 7 - Stage 2 Dispersion Modelling, six months of monitoring data is required to be collected which may take approximately 2 years.

It is estimated that the collection of sufficient data (6 months of emissions data) for the Stage 2 Air Impact Assessment report will be completed by 31 December 2014.

Completion Date: The licensee will submit a Stage 2 Dispersion Model and Air Impact Assessment report to the EPA by 31 March 2015.

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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
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

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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 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> .

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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 Niall Johnston

Environment Protection Authority

(By Delegation)

Date of this edition: 19-October-2000

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End Notes

- 1 Licence varied by change to Common Name field, issued on 31-May-2001, which came into effect on 31-May-2001.
- 2 Licence transferred through application 140467, approved on 15-Jun-2001, which came into effect on 15-Jun-2001.
- 3 Licence varied by Change to contact name, issued on 14-Nov-2001, which came into effect on 14-Nov-2001.
- 4 Licence varied by notice 1018313, issued on 18-Feb-2003, which came into effect on 15-Mar-2003.
- 5 Licence varied by notice 1044518, issued on 17-Feb-2005, which came into effect on 24-Feb-2005.
- 6 Licence varied by notice 1052303, issued on 02-Dec-2005, which came into effect on 27-Dec-2005.
- 7 Licence varied by change to EPA sub-region, issued on 26-Sep-2006, which came into effect on 26-Sep-2006.
- 8 Licence varied by notice 1081359, issued on 18-Jan-2008, which came into effect on 18-Jan-2008.
- 9 Licence varied by notice 1087628, issued on 09-Jul-2008, which came into effect on 09-Jul-2008.
- 10 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 11 Licence varied by notice 1104422, issued on 28-Sep-2009, which came into effect on 28-Sep-2009.
- 12 Licence varied by correction to Scheduled Activity name, issued on 04-Nov-2010, which came into effect on 04-Nov-2010.
- 13 Licence varied by notice 1129114, issued on 06-Jul-2011, which came into effect on 06-Jul-2011.
- 14 Licence varied by notice 1500876 issued on 23-Aug-2011
- 15 Licence varied by notice 1503505 issued on 17-Jan-2012
- 16 Licence varied by notice 1505365 issued on 05-Apr-2012
- 17 Licence varied by notice 1507249 issued on 10-Jul-2012
- 18 Licence varied by notice 1507847 issued on 06-Aug-2012
- 19 Licence varied by notice 1508365 issued on 24-Aug-2012
- 20 Licence varied by notice 1515385 issued on 26-Jul-2013

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21 Licence varied by notice 1518203 issued on 13-Dec-2013
