

Environment Protection Licence



Licence - 11147

Licence Details

Number:	11147
Anniversary Date:	05-October

Licensee

DUNMORE SAND & SOIL PTY LIMITED

PO BOX 42

WENTWORTHVILLE NSW 2145

Premises

DUNMORE LAKES SAND QUARRY

TABBITA ROAD

DUNMORE NSW 2529

Scheduled Activity

Crushing, grinding or separating

Extractive activities

Fee Based Activity

Scale

Crushing, grinding or separating	> 100000-500000 T annual processing capacity
Water-based extractive activity	> 100000-500000 m3 annual extractive capacity

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);
- 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:

DUNMORE SAND & SOIL PTY LIMITED
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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
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Water-based extractive activity	> 100000 - 500000 m3 annual extractive capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
DUNMORE LAKES SAND QUARRY
TABBITA ROAD
DUNMORE
NSW 2529
PART LOT 6 DP 611159, PART LOT 5 DP 1001931, PART LOT 6 DP 1001931, PART LOT 3 DP 1030504, LOT 5 DP 1030504
INCLUDING TABBITA ROAD

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.

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A4 Other administrative conditions

A4.1 PREMISES STAGING

The stages referred to in this licences are shown in Figure 2.2 (Air Quality Monitoring Locations), page 2 – 18 of the Dunmore Sand & Soil report titled “Dunmore Lakes Sand Project Environmental Management Plan incorporating an Environmental Monitoring Program” December 2005.

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.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2	Dust Monitoring		DS&S reference DD-2 at "Old Peterborough School House", Swamp Road, Dunmore
4	Dust Monitoring		DS&S reference DD-5 at "Creagan Residence", Swamp Road, Dunmore
7	Dust Monitoring		Renton Residence - 310m N or nearest extraction point
8	Dust Monitoring		Toward Dunmore Village - at Quarry on-ramp to Princes Highway

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

<i>Water and land</i>			
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
9	Discharge Quality Monitoring	Discharge Quality Monitoring	Western tributary discharge to Culvert No 3 or 4 shown in Fig 2.2 of EIS
10	Discharge Quality Monitoring	Discharge Quality Monitoring	Realigned Rocklow Creek discharge to Culvert No 1 shown in Fig 2.2 of EIS
11	Upstream		Western tributary upstream of Stage 2
12	Upstream		Northern tributary upstream of Stage 2

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13	Upstream	Rocklow Creek upstream of Stage 3
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P1.4 The following point(s) in the table are identified in this licence for the purpose of the monitoring of weather parameters at the point.

EPA identification no.	Type of Monitoring Point	Description of Location
14	Weather Analysis	Weather station located on the southern side of the quarry and labelled "10" on the map titled "Boral Dunmore Quarry EPL 77 - Monitoring Locations".

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 Virgin Excavated Natural Material (VENM) as defined in the Act may be received at the premises for the purpose of void reclamation.

L2.3 All fines separated from dredged sand must be placed below the permanent water table within 12 hours of processing the dredged sand.

L3 Noise limits

L3.1 Noise from the premises must not exceed the following limits:

Location	Shoulder dB(A) LAeq(15 min)	Day dB(A) LAeq(15 min)	Evening dB(A) LAeq(15 min)	Night dB(A) LAeq(15 min)
Renton	46	46	43	37
Dunmore Village	47	49	44	41
Stocker	47	49	44	38

Note: The night time noise limit for Dunmore Village was determined on the basis of predicted noise levels that

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would be attained after a noise reduction of 8 dB(A) for the loader and/or loading area.

L3.2 For the purposes of condition L3.1:

- Shoulder is the period 6am to 7am Monday to Saturday
- Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6 pm Sundays and Public holidays,
- Evening is defined as the period from 6pm to 10pm
- Night is defined as the period from 10pm to 6am.

L3.3 Noise from the premises is to be measured at the most affected point on or within the residential boundary or at the most affected point within 30m of the dwelling (rural situations) where the dwelling is more than 30m from the boundary to determine compliance with the LAeq(15 minute) noise limit in this condition.

The modification factors presented in Section 4 of the NSW Industrial Noise Policy must also be applied to the measured noise levels where applicable.

L3.4 The noise emission limits identified in this condition apply under meteorological conditions of:

- wind speeds up to 3 m/s at 10metres above the ground level; or
- temperature inversions conditions of up to 6oC/100m and wind speeds up to 2m/s at 10 metres above ground level.

L4 Hours of operation

L4.1 All activities at the premises except inaudible maintenance may only be carried out in accordance with the following table.

Activity	Hours of Operation - Monday to Friday	Hours of Operation - Saturday	Hours of Operation - Sunday and Public Holidays
Excavator extraction of sand and/or soil	0630 - 1800	0630 - 1800	Nil
Sand dredging and processing	0600 - 1800	0600 - 1800	0800 - 1600
Product Despatch	0500 - 2400	0600 - 1800	0800 - 1600
Incoming Fill Material	0500 - 2400	0600 - 1800	0800 - 1600

L4.2 The above condition does not apply to the delivery of material if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.

L4.3 The hours of operation specified may be varied with written consent if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected.

L5 Potentially offensive odour

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L5.1 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 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.

L5.2 No condition of 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 All sealed and unsealed trafficable areas must be maintained, at all times, in a condition which effectively minimises the emission of wind-blown or traffic-generated dust.

O3.3 All stockpiles and handling areas must be maintained, at all times, in a condition which effectively minimises wind blown and traffic generated dust.

O4 Processes and management

O4.1 WASTEWATER TREATMENT

The on-site wastewater treatment system must comply with the requirements of the Environment and Health Protection Guidelines – On-site Sewage Management for Single Households; January 1998.

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O5 Other operating conditions

O5.1 TRUCK WASH

All vehicles must pass through the truck wash facility prior to leaving the premises.

O5.2 STORMWATER/SEDIMENT CONTROL - CONSTRUCTION AND OPERATIONAL PHASES

O5.3 Any pond subject to dredging, or containing turbid water due to recent dredging, must be maintained and operated to prevent discharges of any water from these ponds.

O5.4 Backfilling of the dredge ponds must not take place when they are overflowing.

O5.5 The fines return pond(s) must be bunded to an elevation that prevents inundation by floodwaters caused in a 1:100 year flood level.

Note: The predicted 1:100 year flood level for the site is 3.7 m AHD.

O5.6 TRIBUTARY INTEGRITY - WESTERN, NORTHERN AND EASTERN TRIBUTARIES (STAGE 2)

O5.7 The integrity of the Western and Northern Tributaries must be maintained at least until the Stage 2 Lake is sufficiently large that the surface water from the tributaries can enter the lake without any adverse downstream impacts.

O5.8 The integrity of the Western Tributary exit and entry channels from the Stage 2 Lake must be maintained until permanent stable channels are created and revegetated to maintain flows through Stage 2 and minimise downstream impacts.

O5.9 The licensee must not undertake extraction within 3m of the bank of the Eastern Tributary. Batter slopes from this extraction must be no steeper than 1:3 (v:h).

O5.10 TRIBUTARY INTEGRITY - ROCKLOW CREEK (STAGE 3)

O5.11 Prior to the commencement of extraction in Sub-Stage 3C1, the applicant must have completed the permanent realignment of Rocklow Creek and the realignment must be stable.

O5.12 Sand must not be extracted within a distance of 3 metres from the bank of the realigned Rocklow Creek. The dredge pond adjacent to the realigned creek must have at least a 1:2 (v:h) batter from the 3 metre set back.

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

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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 2

Pollutant	Units of measure	Frequency	Sampling Method
Ash	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Combustible solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Insoluble solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Ash	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Combustible solids	grams per square metre per month	Monthly during discharge	Australian Standard 3580.10.1-2003
Insoluble solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
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Ash	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Combustible solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Insoluble solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003

POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
Ash	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Combustible solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003
Insoluble solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003

M2.3 Water and/ or Land Monitoring Requirements

POINT 9

Pollutant	Units of measure	Frequency	Sampling Method
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

POINT 10

Pollutant	Units of measure	Frequency	Sampling Method
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

POINT 11

Pollutant	Units of measure	Frequency	Sampling Method
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

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POINT 12

Pollutant	Units of measure	Frequency	Sampling Method
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

POINT 13

Pollutant	Units of measure	Frequency	Sampling Method
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

Note: Special Frequency 1 is that sampling must commence within a 24 hour period after receiving 20 mm or more of rainfall at the premises within any 24 hour period. The samples must be taken during the low tide period. Where sampling cannot be commenced within a 24 hour period due to circumstances beyond the licensee's control, the period in which the sample must be taken may be varied with written permission from the EPA.

Note: In the event that the above monitoring locations become inaccessible due to site flooding, the associated monitoring requirements may be delayed until the affected locations become safely accessible. In the event site flooding prevents monitoring the licensee must notify the Environment Protection Authority.

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

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Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Weather monitoring

M4.1 For each monitoring point specified in the table below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.

POINT 14

Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method
Rainfall	mm	Continuous	24 hour	AM-4

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.

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 3 months after: the date of the issue of this licence.

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M7 Other monitoring and recording conditions

M7.1 NOISE COMPLIANCE ASSESSMENT

A noise compliance assessment must be undertaken by a suitably qualified acoustical consultant. The noise compliance assessment must include, but need not be limited to a comparison of actual operational noise levels from the premises with the noise limits specified in this licence. The noise assessment must include but not necessarily be limited to the potentially most affected residential receiver.

Note: The noise assessment report applies to compliance with noise limits during extraction of production sand.

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.

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 ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is

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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.

R1.8 REPORTING OF ENVIRONMENTAL MONITORING DATA

Tabular and listed data must be supported by graphical and statistical presentation of the data including comparison with relevant limits or goals. Monitoring data collected in previous years must be incorporated into the report so that trends in environmental monitoring data can be determined.

DUST DEPOSITION

For dust deposition monitoring, graphical presentation of the data for insoluble solids for the reporting period as well as preceding years (where such data exists) must be provided. This graph must include a data trendline and a line showing the EPA Impact Assessment Criteria as detailed in the EPA publication "Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in New South Wales".

WATER QUALITY

For water quality monitoring, graphical presentation of the data for all pollutants required by this licence for the reporting period as well as preceding years (where such data exists) must be provided. This graph must include a comparison with the limit conditions specified in these licence conditions and with Aquatic Ecosystem Protection Physical, Chemical and Toxicant Trigger Values described in Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000). The Australian and New Zealand Guidelines for Fresh and Marine Water Quality is available at:

<http://www.deh.gov.au/water/quality/nwqms/volume1.html>

POTENTIAL ACID SULPHATE SOILS

The results of all monitoring required under condition E1.7 and E1.8 must be submitted to the EPA in the annual return.

A graph showing pH of the water at the monitoring frequency specified in Condition E1.8 for each year must be included in the annual return. The format should show the pond water pH trend over the life of the licence.

A graph showing quarterly pH in the up and down gradient groundwaters at the monitoring frequency specified in Condition E1.9 must be provided in a format that shows the groundwater pH trend over the life of the licence.

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R2 Notification of environmental harm

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.

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.

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.

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.

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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 Programs

Program	Description	Completed Date
PRP 1 - Noise Management Plan	PRP 1 - Noise Management Plan - further reduction of noise levels at the most affected residential premises. Ongoing program to progressively identify and reduce significant noise emissions from the premises.(+)	30-December-2011

8 Special Conditions

E1 Disposal of Potential Acid Sulphate Soils (PASS) under Water

E1.1 Soil that has been assessed by a Certified Practicing Soil Scientist (CPSS) in accordance with the ASSMAC guidelines and determined to be PASS and which satisfies all of the requirements for classification as VENM, except that it contains sulfidic soils, and which is disposed of under water according to this licence, may be classified as VENM in accordance with part (b) of the definition of VENM in the Appendix to Schedule 1 to the POEO Act 1997.

E1.2 The facility must receive documentation for each truck load of PASS received at the premises (see reporting conditions) that demonstrates that the excavation of PASS and its transport and handling was conducted in accordance with the NSW Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee, August 1998) to prevent the generation of acid.

E1.3 PASS must be disposed of at least 1 metre below the permanent water table level at the premises.

E1.4 Any PASS received at the premises must be placed below the water table within 24 hours of the time of its excavation at the originating site.

E1.5 Any PASS which has dried out, undergone any oxidation of sulfidic minerals or which has a pH of less than 5.5 must not be disposed-of at this premises.

E1.6 The pH of the PASS immediately prior to under-water disposal must be not less than 5.5.

The pH of the water into which the PASS is placed must not be less than 6.5 at any time.

If the pH of the water falls below 6.5 the licensee must not receive any more PASS at the premises until

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approval to continue is received in writing from the EPA.

- E1.7 The pH of each load of the PASS must be tested at the disposal site immediately prior to its placement under water using the test method referred to in NSW Acid Sulfate Soil Manual (Method 21A and/or Method 21Af).
- E1.8 The pH of the water into which the PASS is placed must be monitored using the sampling method, unit of measure, and sampling frequency, specified in the table below:

Pollutant	Unit of Measure	Frequency	Sampling Method
pH	pH	Special Frequency 2	Grab Sample

Note: Special Frequency 2 is daily during the PASS placement into water and thereafter daily for a period of one month from the date the last load of PASS was placed underwater. The pH of the water must be monitored weekly at all other times.

- E1.9 The Licensee must monitor the pH of up and down gradient groundwaters at the premises at least once per every 3 months and for a minimum of 1 year after the last load of PASS has been disposed-of.

If the pH of the water falls below 6.5 the licensee must notify the EPA in writing as soon as practicable and within 24 hours.

- E1.10 The licensee must retain certain documentation for each truck load of PASS received at the site which indicates:
- the details of the originating site (name, address, owner & developer, contact details);
 - the details of the transporter (name, address, contact details, vehicle registration);
 - date and time of the extraction of the PASS;
 - pH of the PASS at the time of its extraction, and at the time immediately prior to its placement underwater; and
 - the name of the person (certified practicing soil scientist) who assessed the material and classified it as PASS.

The documentation must be retained by the licensee for four years from the date of receipt of the PASS

- E1.11 Waste other than VENM must not be deposited in the water.

E2 VENM Management

- E2.1 The licensee must prepare a "VENM Verification Procedure" and ensure the Authority is provided with an up to date version of the Procedure.

The "VENM Verification Procedure" prepared must be used for all material assessed as VENM.

The licensee must retain a copy of all assessments made using the "VENM Verification Procedure".

- E2.2 Backfilling of the voids created by sand dredging with VENM must be undertaken in a manner, and with material of suitable physical characteristics, so that it does not change the direction or rate of

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groundwater flow from the site to Rocklow Creek.

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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 Trevor Jones

Environment Protection Authority

(By Delegation)

Date of this edition: 05-October-2000

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End Notes

- 1 Licence varied by notice 1033699, issued on 04-May-2004, which came into effect on 29-May-2004.
- 2 Licence varied by notice 1041632, issued on 17-Feb-2005, which came into effect on 14-Mar-2005.
- 3 Licence varied by notice 1054794, issued on 03-Apr-2006, which came into effect on 28-Apr-2006.
- 4 Licence varied by notice 1078049, issued on 13-Sep-2007, which came into effect on 13-Sep-2007.
- 5 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 6 Licence varied by notice 1119818, issued on 21-Oct-2010, which came into effect on 21-Oct-2010.
- 7 Licence varied by notice 1126580, issued on 04-Apr-2011, which came into effect on 04-Apr-2011.
- 8 Licence varied by notice 1127770, issued on 29-Apr-2011, which came into effect on 29-Apr-2011.
- 9 Licence varied by notice 1502498 issued on 03-Nov-2011
- 10 Licence varied by notice 1502870 issued on 15-May-2012
- 11 Licence varied by notice 1544813 issued on 26-Sep-2016