



# Environment Protection Licence

Licence - 4608

Licence Details	
Number:	4608
Anniversary Date:	01-April

Licensee
BREEN RESOURCES PTY LTD
LEVEL 9, 92 PITT STREET
SYDNEY NSW 2000

Premises
BREEN RESOURCES
CAPTAIN COOK DRIVE
KURNELL NSW 2231

Scheduled Activity
Resource recovery
Waste disposal (application to land)

Fee Based Activity	Scale
Recovery of general waste	Any general waste recovered
Waste disposal by application to land	Any 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).



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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:

BREEN RESOURCES PTY LTD
LEVEL 9, 92 PITT STREET
SYDNEY NSW 2000

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
Resource recovery	Recovery of general waste	Any general waste recovered
Waste disposal (application to land)	Waste disposal by application to land	Any capacity

### A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

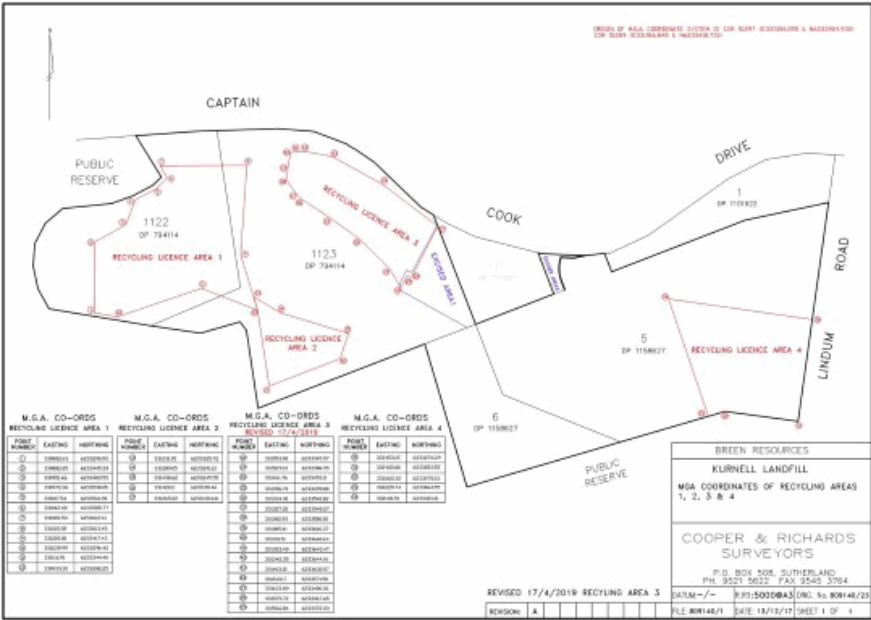
Premises Details
BREEN RESOURCES
CAPTAIN COOK DRIVE
KURNELL
NSW 2231
LOT 1122 DP 794114, LOT 1123 DP 794114, LOT 5 DP 1158627, LOT 6 DP 1158627
LICENSED AREA FOR EPL 4608 SHOWN ON SURVEY PLAN TITLED "KURNELL LANDFILL SITE - MGA COORDINATES OF RECYCLED AREAS 1, 2, 3 & 4" AND DATED 13 DECEMBER 2017 PREPARED BY COOPER & RICHARDS.

A2.2 The premises location is shown on the map below.



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### 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 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

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20	Subsurface gas	Gas monitoring bore labelled as BH4A on map titled "Figure 1: Site Plan - January 2007" in "Final Report - Groundwater monitoring program - Annual Report - January 2007" dated 20/4/07.
22	Subsurface gas	Gas monitoring bore labelled as BH8B on map titled "Figure 1: Site Plan - January 2007" in "Final Report - Groundwater monitoring program - Annual Report - January 2007" dated 20/4/07.
23	Subsurface gas	Gas monitoring bore labelled as BH12A on map titled "Figure 1: Site Plan - January 2007" in "Final Report - Groundwater monitoring program - Annual Report - January 2007" dated 20/4/07.
24	Subsurface gas	Gas monitoring bore labelled as BH13A on map titled "Figure 1: Site Plan - January 2007" in "Final Report - Groundwater monitoring program - Annual Report - January 2007" dated 20/4/07.
25	Subsurface gas	Gas monitoring bore labelled as BH18 on map titled "Figure 1: Site Plan - January 2007" in "Final Report - Groundwater monitoring program - Annual Report - January 2007" dated 20/4/07.

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.

## Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Leachate		Leachate bore labelled as LB02 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359
3	Groundwater		Groundwater monitoring borehole labelled as BH3A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
4	Groundwater		Groundwater monitoring borehole labelled as BH4A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
5	Groundwater		Groundwater monitoring borehole labelled as BH5A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.

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6	Groundwater	Groundwater monitoring borehole labelled as BH6A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
7	Groundwater	Groundwater monitoring borehole labelled as BH7A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
8	Groundwater	Groundwater monitoring borehole labelled as BH8A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
9	Groundwater	Groundwater monitoring borehole labelled as BH9C on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
11	Groundwater	Groundwater monitoring borehole labelled as BH10A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
12	Groundwater	Groundwater monitoring borehole labelled as BH11A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
13	Groundwater	Groundwater monitoring borehole labelled as BH12A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
14	Groundwater	Groundwater monitoring borehole labelled as BH13A on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
15	Groundwater	Groundwater monitoring borehole labelled as BH14 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
16	Groundwater	Groundwater monitoring borehole labelled as BH15 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
17	Groundwater	Groundwater monitoring borehole labelled as BH16 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.

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18	Groundwater	Groundwater monitoring borehole labelled as BH17 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
27	Groundwater	Groundwater monitoring borehole labelled as BH20 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
28	Groundwater	Groundwater monitoring borehole labelled as BH22 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
29	Groundwater	Groundwater monitoring borehole labelled as BH23 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
30	Groundwater	Groundwater monitoring borehole labelled as BH24 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
31	Groundwater	Groundwater monitoring borehole labelled as BH25 on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359.
32	Groundwater	Groundwater monitoring borehole labelled as BH19B on map titled "Figure 3: Groundwater and Leachate Sampling Locations" dated 26.09.2018. DOC19/204359. Replaced point 19 in March 2019.

## 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 to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.
- Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

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Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	Immobilised Wastes able to be Landfilled	Waste that has been immobilised under general approval 1999/05 - "Ash, ash-contaminated natural materials or coal-contaminated natural excavated materials"	Waste disposal (application to land)	Waste must be handled and disposed of in accordance with the conditions set out in general immobilisation approval number 1999/05. All waste received under this approval may only be landfilled in Cell B11 (Stages A, B & C).
NA	Virgin excavated natural material	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery	NA
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery	NA
NA	Paper or cardboard	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery	NA
NA	Glass, plastic, rubber, plasterboard, ceramics, bricks, concrete or metal	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery	NA
NA	Building and demolition waste	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery	NA
NA	Asphalt waste (including asphalt resulting from road construction and waterproofing works)	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Resource recovery	NA
NA	Ferric sludge	Ferric sludge from the Sydney Desalination Plant	Waste disposal (application to land)	NA
NA	Dredge Spoil	Dredge spoil which does not have contaminant levels that exceed General Solid Waste in the current	Waste disposal (application to land)	Waste disposal activities are limited to Active Cells B10 and B11 (Stages A, B

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		Waste Classification Guidelines.	& C).	
NA	Soils	Soils that meet the requirements of General Solid Waste (non-putrescible).	Waste disposal (application to land)	
NA	Soils	Soil that meets the General Solid Waste classification as per the Waste Classification Guidelines as in force from time to time, with the exception of the maximum threshold values for contaminants specified in the "Other Limits" column	Resource recovery Waste disposal (application to land)	Arsenic: 40mg/kg; Cadmium: 2mg/kg; Copper: 200mg/kg; Mercury: 1.5mg/kg; Zinc: 600mg/kg; Total Petroleum Hydrocarbons C6 to C9: 150mg/kg; Total Petroleum Hydrocarbons C10 to C36: 1600mg/kg; Polycyclic aromatic hydrocarbons: 80mg/kg; Polychlorinated Biphenyls (individual): 1mg/kg. No acid sulfate or potentially acid sulfate soils is to be received at the Premises.

Note: For the purpose of the table above "waste tyres" is classified as a Special Waste and is defined as used, rejected or unwanted tyres, included shredded tyres or tyre pieces.

Note: A mixture of wastes listed in condition L2.1 may be received at the premises.

## Recovery of Soils

L2.2 The Licensee is required to submit a formal Recovered Soil Testing and Verification Plan prior to the commencement of soil recovery activities at the Premises.

## Waste Tyres

L2.3 The licensee must not dispose of any tyre at the premises unless:

- a) The tyre has a diameter of 1.2 metres or more; and/or
- b) The tyre has been shredded or had its walls removed; and/or

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- c) The tyre was delivered to the premises as part of a domestic load.

## L2.4 For the purposes of this condition:

- a) Tyres are taken to be shredded only if the tyres are in pieces measuring no more than 250mm in any direction; and
- b) Domestic load means a load containing no more than 5 tyres having a diameter of less than 1.2 metres.

## L2.5 Tyres stockpiled on the premises must:

- a) not exceed fifty (50) tonnes of tyres at any one time; and
- b) be located in a clearly defined area away from the tipping face; and
- c) be managed to control vermin; and
- d) be managed to prevent any tyres from catching fire.

## L3 Potentially offensive odour

- L3.1 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.

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.

## 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.

- O1.2 All operations and activities occurring at the premises must be carried out in a manner that will prevent and minimise fire at the premises.

### 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.

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## 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.

## O4 Processes and management

- O4.1 The licensee must take all practicable steps to control entry to the premises.

## O5 Waste management

### Waste Incineration

- O5.1 There must be no incineration or burning of any waste at the premises.

### Daily and Intermediate Cover

- O5.2 Cover material must be:

a) Daily cover

Daily cover material must be either

- i) virgin excavated natural material, or
- ii) approved alternative daily cover.

Cover material must be applied to a minimum depth of 15 centimetres over all exposed landfilled waste prior to ceasing operations at the end of each day.

b) Intermediate cover

Cover material must be virgin excavated natural material and must be applied to a depth of 30 centimetres over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.

c) Cover material stockpile

At least two weeks cover material must be available at the premises under all weather conditions. This material may be won on site, or alternatively a cover stockpile must be maintained adjacent to the tip face.

- O5.3 For the purpose of condition O5.2 a) ii) the approved alternative daily cover can be material in accordance with specifications outlined within EPA correspondence dated 27 October 2004 or material listed in conditions O5.4, O5.5, and O5.12 of this licence.

### Use of Recovered Fines as Alternative Daily Cover (ADC) Trial

- O5.4 For the purposes of condition O5.2, the approved ADC is recovered fines that meet the requirements of the *Recovered Fines Alternative Daily Cover Specifications* as gazetted and amended by the EPA from time to time, in accordance with clause 12(7)(c) of the Protection of the Environment Operations (Waste)

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Regulation 2014.

O5.5 In relation to recovered fines applied to land as ADC as permitted under condition O5.4:

- a) All recovered fines applied to land as ADC at the premises must meet the requirements of the *Recovered Fines Alternative Daily Cover Specifications* as gazetted and published by the EPA from time to time, before they are received at the premises.
- b) No more than 1,000 tonnes of recovered fines received can be stored, kept or stockpiled at the active landfill cell at the premises at any time.
- c) The application to land of recovered fines as ADC must achieve the performance criteria specified in Section 8 Covering of Waste of NSW EPA Environmental Guidelines Solid Waste Landfills Second Edition, 2016, as updated from time to time.
- d) The recovered fines must only be applied as ADC on general solid waste (non-putrescible).
- e) The licensee can only receive a maximum of 15,000 tonnes of recovered fines to apply to land as ADC in one year (any 12 month period).
- f) The licensee must retain at the premises each statement of compliance provided by the scheduled waste facility that supplied the recovered fines for ADC, as required by the *Recovered Fines Alternative Daily Cover Specifications* as gazetted and published by the EPA from time to time, for a period of six years from the date the recovered fines were received at the premises.

## Recycling Area

O5.6 The licensee must ensure that recycling facilities are provided for the following materials:

- a) Bricks;
- b) Tiles;
- c) Concrete;
- d) Reusable timber;
- e) Plasterboard; and
- f) Metal.

O5.7 Recycling facilities at the premises must be clearly marked and be available for access by the public.

## Surface Water Management

O5.8 Surface waters must be diverted away from any area where waste is being or has been landfilled.

O5.9 The landfill surface must be contoured to prevent the run-on of surface waters onto areas where waste has been landfilled except during storm events of not less than a 1 in 10 year recurrence interval of 24 hours duration.

## Closure Plan



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- O5.10 The last licensee must prepare and submit to the EPA within three months prior to the last load of waste being landfilled a closure plan in accordance with section 76 of the Protection of the Environment Operations Act 1997.

## Use of Silage Wrap as Alternative Daily Cover (ADC) Trial

- O5.11 The Licensee must provide an updated fire management plan that includes measures that specifically address fire in waste that has been encapsulated in plastic silage wrap and how this will be managed. The plan must be provided prior to the commencement of the trial.
- O5.12 The Licensee may conduct a trial using Silage Wrap as ADC for a twelve (12) month period. The ADC operational trial:
- a) Must not commence until an updated Fire Management Plan has been approved by the EPA as per condition O5.11;
  - b) Shall commence the first day the Silage Wrap is used for ADC at the premises;
  - c) Conclude no later than 30 April 2022; and
  - d) May use plastic silage wrap to encapsulate waste as an alternative daily cover as described in the email dated 16 February 2021 (EPA ref: DOC21/25463-3).

## 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:
- 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:



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## M2.2 Air Monitoring Requirements

### POINT 20

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

### POINT 22

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

### POINT 23

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

### POINT 24

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

### POINT 25

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 1

## M2.3 Water and/ or Land Monitoring Requirements

### POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Yearly	Grab sample
Carbonate	milligrams per litre	Yearly	Grab sample
Chloride	milligrams per litre	Yearly	Grab sample

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Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Probe
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Probe
Phosphorus	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total chromium	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

## POINT 3,4,5,6,7,8,9,11,12,13,14,15,16,17,18,27,28,29,30,31,32

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium	milligrams per litre	Yearly	Grab sample
Arsenic	milligrams per litre	Yearly	Grab sample
Barium	milligrams per litre	Yearly	Grab sample
Benzene	milligrams per litre	Yearly	Grab sample
Cadmium	milligrams per litre	Yearly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample

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Carbonate	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Probe
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total chromium	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M2.4 For the purposes of the above tables 'Special Method 1' means methane monitoring must be performed on the gas within the landfill subsurface monitoring well before any admixture of air into that well, and in accordance with AS/NZS 61779.3:2000 Electrical apparatus for the detection and measurement of flammables gases – Performance requirements for Group 1 apparatus indicating a volume fraction up to 5 percent methane in air.

## 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:

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- 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 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.

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## M6 Other monitoring and recording conditions

M6.1 The licensee must record the following data for every fire at the premises:

- (a) Time and date that the fire started;
- (b) Time and date that the fire was either burnt out or extinguished;
- (c) Location of the fire (eg. clean timber stockpile, putrescible garbage cell etc.);
- (d) Prevailing weather conditions; and
- (e) Observations made in regard to smoke direction and dispersion.

M6.2 The licensee must record, quarterly, the volume, weight and description of material disposed of in the dredge pond. The first quarterly recording period commenced on the 8 March 2001.

### Soil Classification Records

M6.3 The licensee must keep a record of each load of Soil, as referred to under Condition L2.1, that is received at the premises. The record must include, but not necessarily be limited to, the following:

- (a) a copy of the waste classification report in accordance with the Waste Classification Guidelines, including the classification and the limits specified in the L2.1 table;
- (b) the quantity (in tonnes) of the Soil received;
- (c) the date and time that the Soil were received;
- (d) the registration number of the vehicle transporting the Soil to the premises;
- (e) the source(s) and address from where the Soil were received; and
- (f) the name and contact details of the company or individual delivering the Soil to the premises.

The record must be retained at the premises for at least 4 years after the receipt of the load of the soil. The record must be produced to any authorised officer of the EPA upon request.

## 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.

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

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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 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.

## 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

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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.
- 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.

## 8 Special Conditions

### E1 Financial assurance

- E1.1 A financial assurance in the form of an unconditional and irrevocable and on demand guarantee from a bank, building society or credit union operating in Australia as "Authorised Deposit-taking Institutions" under the *Banking Act 1959* of the Commonwealth of Australia and supervised by the Australian Prudential Regulatory Authority (APRA) must be provided to the EPA.
- E1.2 A financial assurance in favour of the Environment Protection Authority for an amount of seven hundred and fifty thousand dollars (\$750,000) must be provided to the EPA. The financial assurance is required to secure or guarantee funding for works or programs required by or under this licence. The financial assurance must contain a term that provides that any monies claimed can be paid to the EPA or, at the

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written direction of the EPA, to any other person.

- E1.3 The financial assurance must be maintained during the operation of the facility and thereafter until such time as the EPA is satisfied the premises is environmentally secure.
- E1.4 The EPA may require an increase in the amount of the financial assurance at any time as a result of reassessment of the total likely costs and expenses of rehabilitation of the premises.
- E1.5 The EPA may claim on a financial assurance under s303 of the POEO Act if a licensee fails to carry out any work or program required to comply with the conditions of this licence.
- E1.6 The financial assurance must be replenished by the full amount claimed or realised if the EPA has claimed on or realised the financial assurance or any part of it to undertake a work or program required to be carried out by the licence which has not been undertaken by the licence holder.

## E2 VENM Verification

- E2.1 The licensee must ensure all Virgin Excavated Natural Material (VENM) received at the premises is verified as VENM. The licensee must follow procedures that include (but are not necessarily limited to) the VENM Verification Procedure (Conditions E2.1 to E2.6).
- E2.2 Pre acceptance validation must be carried out prior to the licensee agreeing to accept VENM from all sources. This must incorporate a procedure for collection and recording of information about the waste including;
  - a) The location of the site from which the waste originates (the Waste Origin Site), its street address;
  - b) A short general description of the Waste Origin Site and any improvements on the site;
  - c) A review of the Acid Sulfate Soil Risk Map for the Waste Origin Site;
  - d) A brief history of activities of the site with particular reference to the commercial or industrial activities which may have resulted in the site becoming chemically contaminated;
  - e) Whether the Waste Origin Site has been the subject of contaminated site investigations and, if so, a summary of the findings of the investigations;
  - f) A brief description of the physical nature of the material(s) proposed to be transported from the Waste Origin Site to the premises;
  - g) Sufficient other background information or analysis data to satisfy the licensee that the material has been properly classified as VENM; and
  - h) An estimate of the total amount of VENM proposed to be received from a Waste Origin Site where such amounts are greater than 100 tonnes.

**Note:** The procedure should also include a mechanism whereby, having obtained the above information, the licensee takes all practicable further inquiries to satisfy itself that waste to be transported to the premises from the Waste Origin Site is VENM. For example, where the above steps reveal that there is a risk that waste from the origin site is not VENM, then further practicable steps are taken.

- E2.3 Verification at time of acceptance must provide reasonable assurance that the material is from a Waste Origin Site properly identified in accordance with the pre acceptance Verification Procedure and is VENM from that site. The information obtained and recorded must include:

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- a) The date and time of entry of the transporting vehicle;
- b) A description of the type(s) of VENM in the load;
- c) The weight of each load;
- d) The identification details of the source of the VENM (the VENM supplier) and site of origin;
- e) The details of the transporting vehicle including registration number;
- f) Identification details of the company/individual which has employed or contracted the driver to transport VENM to the premises.

- E2.4 A program of inspection and audit of deliveries designed to evaluate the overall effectiveness of the above procedures and:
- a) Is statistically designed to provide confidence that waste being transported to the premises from a Waste Origin Site has been properly classified as VENM;
  - b) Segregates, in a defined area, any load of waste which is the subject of inspection and/or sampling until such time as the results of the inspection and/or sampling are known; and
  - c) Segregates material which is found to be improperly classified as VENM in a discrete, defined area.
- E2.5 As soon as possible after becoming aware that any waste/material accepted at the premises is not VENM the licensee must;
- a) Notify the EPA in writing;
  - b) Remove the material/waste from the premises and dispose of it in a lawful area of the premises or dispose of it at a facility licensed to take such waste; and
  - c) Implement a procedure to audit all further incoming loads from that Waste Origin Site prior to accepting any further waste, until such time as the results of such audits demonstrate that the Waste Origin Site's screening and assessment procedures have been corrected to prevent further mis-classification of waste.
- E2.6 The Licensee must record the disposal location for each load of VENM received at the Premises.
- E2.7 The licensee must ensure that all VENM received at the premises has been assessed in accordance with the VENM Verification Procedure (conditions E2.1 to E2.6).
- E2.8 Commencing from 30 August 2011, the Licensee must provide every three months to the EPA VENM verification data for all waste classified as VENM and received at the Premises. VENM verification data to be provided by the following dates:
- a) 30 November 2011;
  - b) 29 February 2012;
  - c) 31 May 2012; and
  - d) 31 August 2012.

## E3 Disposal of Potential Acid Sulfate Soils (PASS) underwater

- E3.1 The pH of the water into which PASS has been placed must be monitored using the sampling method, unit of measure, and sampling frequency, specified in the table below.

Special Frequency 1 is daily during the PASS placement into water and thereafter weekly for a period of

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six months from the date the last load of PASS was placed underwater.

Pollutant	Unit of measure	Frequency	Sampling Method
pH	pH	Special Frequency 1	Grab Sample

- E3.2 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.
- E3.3 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.
- E3.4 The results of all monitoring required under condition E3.1 and E3.2 must be submitted to the EPA in the annual return.
- E3.5 A graph showing pH of the water at the monitoring frequency specified in condition E3.1 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
- E3.6 A graph showing quarterly pH in the up and down gradient groundwaters at the monitoring frequency specified in condition E3.2 must be provided in a format that shows the groundwater pH trend over the life of the licence. Results must be submitted to the EPA in the annual return.
- E3.7 The licensee must retain certain documentation for each truck load of PASS received at the site which indicates:
- a) the details of the originating site (name, address, owner & developer, contact details);
  - b) the details of the transporter (name, address, contact details, vehicle registration);
  - c) date and time of the extraction of the PASS;
  - d) pH of the PASS at the time of its extraction, and at the time immediately prior to its placement underwater; and
  - e) 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.

## E4 Filling and Final Capping Plan

- E4.1 The licensee must not landfill on or above the final landform contours depicted in the drawing titled "Developer Works" "Drawing No L-03" dated 27 April 2010 in Schedule 3 in the Voluntary Planning Agreement signed by Sutherland Shire Council, Australand Kurnell Pty Ltd and Breen Holdings Pty Ltd on 3 June 2010.
- E4.2 The Licensee must construct and install the final landfill capping system as outlined below:
- a) the final capping plan for Playing Fields 9 and 10 must be constructed and installed in accordance with the capping plan prepared by Consulting Earth Scientists titled "*Kurnell Landfill Facility (Environment*

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*Protection Licence No. 4608): Revised Figure 5 of the Progressive Capping Plan CES Document Ref.: (CES070607-KLF-16062011)" and dated 16 June 2011.*

b) the remainder of the site (excluding Playing Fields 9 and 10) must be constructed and installed in accordance with the capping plan prepared by Consulting Earth Scientists titled *"Progressive Capping Plan: Kurnell Landfill Facility Captain Cook Drive, Kurnell, NSW prepared for Breen Holdings Pty Ltd. Report ID: CES070607-KLF-31. Revision No: E"* and dated 7 March 2011 (the "Final Capping Plan").

- E4.3 A Capping Construction Quality Assurance (CQA) Report must be provided to the EPA within three months of the completion of each of the following stages:
- at the end of Stage 3 including works undertaken in the Commercial/ Industrial Area, Playing Fields 2 and 3, and Open Space Lot 1122;
  - at the end of Stage C including works undertaken in Open Space Lot 5, Playing Fields 9 and 10, Open Space Lot 4 and Access Roads Lot 4; and
  - at the end of Stage B including works undertaken in the remaining on Lot 1122, Access Roads Lot 1122 and Playing Fields 4,5,6,7 and 8.

Note: The sequence for final capping and closure works is specified in Figure 10 of the Final Capping Plan, labelled *"Indicative Capping Programme Rev B"* and dated 4 March 2011.

- E4.4 The CQA Reports must provide:
- "as executed" drawings prepared by a suitably qualified and experienced geotechnical practitioner which detail each layer of the final cap;
  - the results of the tests conducted in accordance with *"Table 1: Construction Quality Assurance Programme"* in the Final Capping Plan.

## E5 Excised area

### Managing truck movements

- E5.1 Except as expressly permitted in licence condition E7, the licensee must comply with all licence conditions in relation to all material transported to playing fields 1 & 2, Lots 1123 (DP794114) and 111 (DP777967).
- E5.2 Prior to material being stored or land applied on excised Area 1 and excised Area 2 the Licensee must:
- erect a fence or suitable barrier along the entire boundary of the excised area to prevent unauthorised vehicle access to and from the licensed premises;
  - install lockable entry and exit gates between the excised area and the licensed premises with access keys controlled by the Licensee;
  - the entry and exit gates must be locked outside of operating hours. Operating hours are 6.15am to 4.00pm Monday to Friday, 6.15am to 1.30pm Saturday, Sunday closed;
  - the licensed premises must only be accessed from the excised area through the lockable gates.

### Record keeping

- E5.3 The Licensee must implement the following measures to ensure accurate record keeping:
- Prior to material being stored or land applied on excised Area 1 and 2 the Licensee must survey the excised area to ascertain ground surface levels. A copy of the survey must be provided to the EPA prior

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- to material being stored or land applied on excised Area 1 and 2;
- b) Weighbridge records must clearly identify all vehicle movements into excised Area 1 and 2 and fully comply with the requirements of clause 12 (1) of the *Protection of the Environment (Waste) Regulation 2005*;
- c) Once all material has been received for playing field development the Licensee must again survey excised Area 1 and 2 to ascertain the volume of material received. A copy of the survey, as well as weighbridge records relating to the material received in excised Area 1 and 2, must be provided to the EPA within one month of all material being received for playing field development in the excised Area 1 and 2;
- d) Material verification to be available to the EPA on request.

Note: The excised Area 1 and Area 2 are defined in Condition A2.3.

## E6 Licensee requirements for access to Lot 111 and Lot 1059 by Australand Holdings Pty Ltd Truck Movements

- E6.1 Prior to material being stored or land applied on Lot 111 DP 777967 ("Lot 111") and Lot 1059 DP 1140838 ("Lot 1059") the Licensee must:
- a) erect a fence or suitable barrier along the entire boundary of the excised area to prevent unauthorised vehicle access to and from the licensed premises;
  - b) install lockable entry and exit gates between Lot 111 and Lot 1059 and the licensed premises with access keys controlled by the Licensee;
  - c) the entry and exit gates must be locked outside of operating hours. Operating hours are 6.15am to 4.00pm Monday to Friday, 6.15am to 1.30pm Saturday, Sunday closed;
  - d) the licensed premises must only be accessed from Lot 111 and Lot 1059 through the lockable gates.

### Record Keeping

- E6.2 The Licensee must implement the following measures to ensure accurate record keeping:
- a) Prior to material being stored or land applied on Lot 111 and Lot 1059 the Licensee must survey each Lot area to ascertain ground surface levels. A copy of the survey must be provided to the EPA prior to material being stored or land applied on Lot 111 and Lot 1059;
  - b) Weighbridge records must clearly identify all vehicle movements into Lot 111 and Lot 1059 and fully comply with the requirements of clause 12 (1) of the *Protection of the Environment (Waste) Regulation 2005*;
  - c) Once all material has been received for playing field development the Licensee must again survey Lot 111 and Lot 1059 to ascertain the volume of material received. A copy of the survey, as well as weighbridge records relating to the material received in Lot 111 and Lot 1059, must be provided to the EPA within one month of all material being received for playing field development in Lot 111 and Lot 1059;
  - d) Material verification to be available to the EPA on request.

### Transport of material between Lot 111 and Lot 1059

- E6.3 Weighbridge records must clearly identify all vehicle movements between Lot 111 and Lot 1059 and fully comply with the requirements of clause 12 (1) of the *Protection of the Environment (Waste) Regulation 2005*.

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## **E7 Transport of Stockpiled Material from Lot 1 (DP1101922) to Playing Fields 1 & 2- Lot 1123 (DP794114) & Lot 111 (DP777967).**

- E7.1 All material transported from Lot 1 (DP1101922) to Lots 1123 (DP794114) and 111 (DP777967) must be transported directly to the Lots (1123 & 111) without depositing any material on any other Lot.
- E7.2 All vehicles transporting material from Lot 1 (DP1101922) to Lots 1123 (DP794114) and 111 (DP777967) must not contain any additional material from any other source.
- E7.3 A daily truck movement log must be recorded and maintained by the licensee of the material being moved from Lot 1 (DP1101922) to Lots 1123 (DP794114) and 111 (DP777967). The daily truck movement log must contain, but is not limited to;

(i) Registration of trucks(s) being used for the movement of material from Lot 1 (DP1101922) to lots 1123 (DP794114) and 111 (DP777967); and

(ii) Date and time of each truck movement for the movement of material from Lot 1 (DP1101922) to Lots 1123 (DP794114) and 111 (DP777967).

## **E8 Cell B11 Construction**

- E8.1 Cell B11 that is proposed to be constructed must generally include:

- a compacted clay layer with a permeability of no greater than 10<sup>-9</sup> m/s and a minimum thickness of 900mm;
- an upper needle punched, non-woven geotextile layer;
- an aggregate drainage layer;
- leachate collection pipes laid in a negative projection in an aggregate filled trench placed in intervals of no more than 50 metres; and
- a lower needle punched, non-woven geotextile layer

and be constructed generally in accordance with section 3.2, 3.5 and 3.6 and figures 4 to 8 of the report titled "Cell B11 (Stages A, B and C) Leachate Management Plan (LMP): Kurnell Landfill Facility, Captain Cook Drive, Kurnell New South Wales 2231 prepared for Breen Holdings Pty Ltd -Report ID: CES070607-KLF-65, 5 July 13," (the Cell B11 LMP report).

- E8.2 During the construction of landfill Cell B11 the licensee must implement the construction quality assurance measures detailed in the document "Appendix 1: Landfill Construction Quality Assurance Plan, Cell B11 (Stages A, B and C), Kurnell Landfill Facility, Kurnell, NSW" ("the CQA Plan") provided in Appendix 1 the Cell B11 LMP Report.
- E8.3 Following the construction of Cell B11 the licensee must provide the EPA with a Construction Quality Report (CQA report). The CQA report must generally provide:
- copies of relevant reports, surveys, test results and photographs proposed in the CQA plan; and
  - an opinion by a suitably qualified person whether or not Cell B11 was constructed generally in accordance with its design intent.

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## **E9 Leachate Collection System**

- E9.1 The leachate holding pond proposed to be constructed along the north-west boundary of Cell B11 must generally include a:
- a) needle punched Geosynthetic Clay Liner (GCL) with a permeability of  $3 \times 10^{-11} \text{ m/s}$  with a thickness of 5mm and bentonite layer mass of 4500g/m<sup>2</sup> to be laid over the base of the holding pond; and
  - b) 2mm thick, double textured High Density Polyethylene Flexible Membrane Liner fully welded and weld tested
- and be constructed generally in accordance with section 3.9 of the Cell B11 LMP Report.
- E9.2 During the construction of the leachate holding pond the licensee must implement the measures detailed in the document “Annexure A: Leachate Holding Pond Construction Quality Assurance Plan Kurnell Landfill Facility, Kurnell NSW” (the Leachate Holding Pond CQA Plan) by Consulting Earth Scientists dated 21 October 2013
- E9.3 Following the construction of the leachate holding pond the licensee must provide the EPA with a Construction Quality Assurance Report (Leachate Holding Pond CQA Report). The report must generally provide:
- a) copies of relevant reports, surveys, test results and photographs proposed in the Leachate Holding Pond CQA Plan; and
  - b) an opinion by a suitably qualified person whether or not the leachate holding pond was constructed generally in accordance with its design intent.



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## Dictionary

### General Dictionary

<b>3DGM [in relation to a concentration limit]</b>	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
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>AM</b>	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> .
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	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.
<b>annual return</b>	Is defined in R1.1
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	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> .
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	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.
<b>cond.</b>	Means conductivity
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means Environment Protection Authority of New South Wales.
<b>fee-based activity classification</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>percentile [in relation to a concentration limit of a sample]</b>	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.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	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.
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	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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<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Bernie Weir

Environment Protection Authority

(By Delegation)

Date of this edition: 01-June-2001

# Environment Protection Licence

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## End Notes

- 1 Licence varied by notice 1032581, issued on 22-Mar-2004, which came into effect on 16-Apr-2004.
- 2 Licence varied by notice 1040255, issued on 01-Sep-2004, which came into effect on 26-Sep-2004.
- 3 Licence varied by notice 1041676, issued on 27-Oct-2004, which came into effect on 27-Oct-2004.
- 4 Licence varied by notice 1046515, issued on 24-May-2005, which came into effect on 18-Jun-2005.
- 5 Licence varied by notice 1057832, issued on 10-May-2006, which came into effect on 10-May-2006.
- 6 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 7 Licence varied by notice 1081791, issued on 18-Dec-2008, which came into effect on 18-Dec-2008.
- 8 Licence varied by notice 1104804, issued on 21-Aug-2009, which came into effect on 21-Aug-2009.
- 9 Licence varied by Correction to EPA Region data record., issued on 23-Jun-2010, which came into effect on 23-Jun-2010.
- 10 Licence varied by correction to DECCW Region data record, issued on 07-Jul-2010, which came into effect on 07-Jul-2010.
- 11 Licence varied by notice 1117301, issued on 10-Sep-2010, which came into effect on 10-Sep-2010.
- 12 Licence varied by notice 1120519, issued on 03-Dec-2010, which came into effect on 03-Dec-2010.
- 13 Licence varied by notice 1125333, issued on 14-Apr-2011, which came into effect on 14-Apr-2011.
- 14 Licence varied by notice 1500437 issued on 18-Aug-2011
- 15 Licence varied by notice 1501634 issued on 14-Sep-2011
- 16 Licence varied by notice 1508592 issued on 25-Oct-2012
- 17 Licence varied by notice 1514262 issued on 03-Jun-2013
- 18 Licence varied by notice 1516655 issued on 23-Dec-2013
- 19 Licence varied by notice 1524719 issued on 17-Sep-2014
- 20 Licence varied by notice 1534118 issued on 18-Sep-2015



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21	Licence transferred through application 1550782 approved on 31-Mar-2017 , which came into effect on 31-Mar-2017	
22	Licence varied by notice	1563767 issued on 07-Nov-2019
23	Licence varied by notice	1590814 issued on 06-May-2020
24	Licence varied by notice	1603160 issued on 09-Mar-2021
25	Licence varied by notice	1609941 issued on 12-Jul-2021