

# Environment Protection Licence

Licence - 13426

## Licence Details

Number:	13426
Anniversary Date:	02-March

## Licensee

DIAL-A-DUMP (EC) PTY LTD  
 PO BOX 7  
 ENFIELD NSW 2136

## Premises

BINGO EASTERN CREEK LANDFILL  
 1 KANGAROO AVENUE  
 EASTERN CREEK NSW 2766

## Scheduled Activity

Waste disposal (application to land)  
 Waste storage

## Fee Based Activity

## Scale

Waste disposal by application to land	Any capacity
Waste storage - other types of waste	Any other types of waste stored

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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:

<b>DIAL-A-DUMP (EC) PTY LTD</b>
<b>PO BOX 7</b>
<b>ENFIELD NSW 2136</b>

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 development work listed below at the premises listed in A2.

There are three stages to the scheduled development works of which the following stages are authorised by this licence:

Stage 2B, Construction of Leachate System, Conveyor and Chute in accordance with A3.2.

A1.2 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
Waste disposal (application to land)	Waste disposal by application to land	Any capacity
Waste storage	Waste storage - other types of waste	Any other types of waste stored

A1.3 These licence conditions apply to all activities carried on at the premises, including:

- waste storage, disposal and processing;
- wastewater and/or leachate treatment systems.

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

A2.1 The licence applies to the following premises:

Premises Details
BINGO EASTERN CREEK LANDFILL
1 KANGAROO AVENUE
EASTERN CREEK
NSW 2766
LOT 1 DP 1145808, LOT 4 DP 1145808
QUARRY VOID BEING THAT PART LOT 1 DP 1145808 NOT INCLUDED IN EPL 20121 TOGETHER WITH THAT PART OF LOT 4 DP 1145808 NOT FORMING PART OF LICENSED PREMISES EPL 20121

### 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,

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except as expressly provided by a condition of this licence.

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

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

## 2 Discharges to Air and Water and Applications to Land

### P1 Location of monitoring/discharge points and areas

- P1.1 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.
- P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

#### *Water and land*

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2	Surface water quality monitoring		North-west onsite dam
3	Surface water quality monitoring		South-west onsite dam
5	Surface water overflow	Surface water overflow	Overflow (weir) from north-west surface water detention basin
6	Surface water overflow	Surface water overflow	Overflow (weir) from south-west surface water detention basin
7	Groundwater monitoring		Groundwater monitoring well on northern site boundary labelled as "BH05s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
9	Groundwater monitoring		Groundwater monitoring well near leachate treatment plant (sth-east area) labelled as "BH08s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.

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10	Groundwater monitoring	Groundwater monitoring well in western carpark adjacent to weighbridge labelled as "BH09s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
11	Groundwater monitoring	Groundwater monitoring well in north-west area adjacent to quarry access road labelled as "BH14s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
12	Groundwater monitoring	Groundwater monitoring well on eastern access track labelled as "BH15As" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
13	Groundwater monitoring	Groundwater monitoring well on sth site boundary - adjacent to concrete pad labelled as "BH16s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
14	Groundwater monitoring	Groundwater monitoring well in western carpark adjacent to weighbridge labelled as "BH02i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
15	Groundwater monitoring	Groundwater monitoring well on nth site boundary labelled as "BH04i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
16	Groundwater monitoring	Groundwater monitoring well in sth-east area adjacent to leachate treatment plant labelled as "BH07i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
17	Groundwater monitoring	Groundwater monitoring well in sth-west service station area labelled as "BH11i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.



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18	Groundwater monitoring	Groundwater monitoring well in nth-east boundary labelled as "BH13i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
19	Groundwater monitoring	Groundwater monitoring well on northern boundary labelled as "BH03d" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
20	Groundwater monitoring	Groundwater monitoring well in sth-east area near leachate treatment plant labelled as "BH06d" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
21	Groundwater monitoring	Groundwater monitoring well near workshop, sth-west part of site labelled as "BH25d" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
22	Groundwater monitoring	Groundwater monitoring well near workshop, nth-east premises boundary labelled as "BH26d" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
23	Groundwater monitoring	Groundwater monitoring well in quarry on western side labelled as "BH17d" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
24	Groundwater monitoring	Groundwater monitoring well on sth site boundary on concrete pad labelled as "BH18d" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
25	Groundwater monitoring	Groundwater monitoring well on northern access track labelled as "BH19s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.

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26	Groundwater monitoring	Groundwater monitoring well on north-eastern boundary labelled as "BH20s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
27	Groundwater monitoring	Groundwater monitoring well adjacent to the southern access road labelled as "BH21s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
28	Groundwater monitoring	Groundwater monitoring well adjacent to the south-western access road labelled as "BH22s" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
29	Groundwater monitoring	Groundwater monitoring well adjacent to the southern access road labelled as "BH23i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
30	Groundwater monitoring	Groundwater monitoring well adjacent to the northern access road labelled as "BH24i" in Figure 2. Water Monitoring Locations (Ref CES160610-ECS), dated 26/11/2019 – EPA reference No. DOC21/723887.
32	Leachate quality monitoring	Leachate well, which is not always accessible based on the landfill floor level relative to screen height. The Licensee is to use the small inflow tap located on the infill pipe leading to the tanks of the Leachate Treatment Plant (-33°47'56", 150°49'51")

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

### *Noise/Weather*

EPA identification no.	Type of monitoring point	Location description
1	Noise monitoring	Nearest affected receiver 1-6 Eber Place Minchinbury

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Noise monitoring

Nearest affected receiver 2-44 Warbler  
Street Erskine Park

## 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.
- L1.2 The Licensee must operate the premises in a manner that ensures that all stormwater from all areas of the premises which has the potential to mobilise sediments and other material is controlled and diverted through appropriate erosion and sediment control/pollution control measures and sedimentation ponds.
- L1.3 Sediment ponds must be maintained in a manner that ensures these retain an appropriate freeboard to minimise the potential for any turbid discharge. Depth indicators must be installed and maintained within these ponds that indicate the required freeboard to be maintained.
- L1.4 Surface water must be diverted away from any area where waste is being landfilled.

### L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table.
- L2.4 The licensee is not taken to have exceeded a concentration limit specified in this licence, for monitoring points 5 and 6, if the discharge has occurred solely as a result of a rainfall event at the premises exceeding a total of 45 millimeters over any consecutive five day period and the licensee has taken all practical measures to avoid or minimise water pollution.
- L2.5 Water and/or Land Concentration Limits

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## POINT 5,6

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Ammonia	milligrams per litre				1
pH	pH				6.5 - 8.5
Total suspended solids	milligrams per litre				50

## L3 Waste

L3.1 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.

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	General solid waste (non-putrescible)	Acid Sulphate Soil and Potentially Acid Sulfate Soil that has been treated and meets the definition of General Solid waste (non-putrescible),	Waste disposal (application to land)	The soil must be treated in accordance with the neutralising techniques in the Acid Sulfate Soil Manual (ASSMAC, 1998), then chemically assessed in accordance with Step 5 in Part 1 of the Waste Classification Guidelines.
T140	Tyres	The tyre has a diameter of 1.2 metres or more; and/or the tyre has been shredded or had its walls removed; and/or the tyre was delivered to the premises as part of a domestic load. For the	Waste disposal (application to land)	N/A

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		purposes of this description: tyres are taken to be shredded only if the tyres are in pieces measuring no more than 250mm in any direction; and domestic load means a load containing no more than 5 tyres having a diameter of less than 1.2 metres.		
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land)	N/A
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Waste disposal (application to land) Waste storage	N/A

- L3.2 The Licensee must not landfill more than 1,000, 000 tonnes of non-putrescible waste per calendar year, excluding any residual waste from the Materials Processing Centres or Pre-Sort Enclosure.
- L3.3 If the licence permits the disposal of asbestos waste, the licensee must comply with Clause 80 of the Protection of the Environment Operations (Waste) Regulation 2014.
- L3.4 Except for the following, the Proponent shall dispose of all outputs produced from the waste processing and/or resource recovery facility on site, subject to Environment Protection Licence 20121, to the Landfill:
- Recyclables extracted and delivered off-site for resource recovery purposes;
  - Hazardous wastes extracted from the input waste stream and lawfully disposed of off-site; and
  - Output waste derived materials approved for use under the *Protection of the Environment Operations Act, 1997* and Regulations.
- L3.5 The applicant must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by condition L3.1 to be disposed of at the premises.
- L3.6 The Licensee is only permitted to dispose of Immobilised waste which has been assessed as General Solid Waste (non-putrescible) and is subject to the general immobilisation approvals as set out in the following:
- "2009/07 Metallurgical furnace slag or metallurgical furnace slag contaminated natural excavated materials"
  - "1999/05 Ash, ash-contaminated natural excavated materials or coal-contaminated natural excavated materials"

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L3.7 The Licensee must not cause, permit or allow the following waste to be received or applied to land at the Premises:

- a) Mixed waste organic outputs (MWOO)
- b) Waste resulting from flood clean up works or activities
- c) Any other waste that emits or has the potential to emit offensive odours.

## L4 Noise limits

L4.1 Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.

### POINT 1

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Continuous	48
Evening	Evening-LAeq (15 minute)	Continuous	47
Night	Night-LAeq (15 minute)	Continuous	44
Night	Night-LAeq (period)	Continuous	41
Night	Night-LA1 (1 minute)	Continuous	53
Morning-Shoulder	Morning Shoulder-LAeq(15 minute)	Continuous	47
Morning-Shoulder	Morning Shoulder-LA1 (1 minute)	Continuous	53

### POINT 33

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Continuous	42
Evening	Evening-LAeq (15 minute)	Continuous	42
Night	Night-LAeq (15 minute)	Continuous	39
Night	Night-LA1 (1 minute)	Continuous	44
Morning-Shoulder	Morning Shoulder-LAeq(15 minute)	Continuous	39
Morning-Shoulder	Morning Shoulder-LA1 (1 minute)	Continuous	44

L4.2 Note: For the purpose of Condition L4.1;

- a) Point 1 includes the residence location of 1-6 Eber Place, Minchinbury NSW 2770, Lot 1152 DP

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263722 as the nearest affected receiver;

b) Point 33 includes the residence location of 2-44 Warbler Street, Erskine Park NSW 2759, Lot 103 DP 706344 as the nearest affected receiver

c) Noise from the development is to be measured at the most affected point or within the residential boundary, or at the most affected point within 30 metres of a dwelling (rural situations) where the dwelling is more than 30 metres from the boundary, to determine compliance with the LAeq (15 minute) noise limits. Where it can be demonstrated that direct measurement of noise from the project is impractical, the DECC may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.

d) The noise emission limits identified apply under meteorological conditions of:

- Wind speed up to 3m/s at 10 metres above ground level; or
- Temperature inversion conditions of up to 3°C/100m and wind speed up to 2m/s at 10 metres above the ground.

## L5 Hours of operation

L5.1 Operating hours for all activities at the Premises must be limited to the following:

Activity	Day	Hours
Construction	Monday - Friday	7:00am to 6:00pm
	Saturday	8:00am to 4:00pm
	Sunday & Public Holidays	Nil
Materials Processing Centres and Pre-Sort Enclosure (Operation, waste receipt, chute use and maintenance)	Monday - Friday	24 hours
	Saturday	24 hours
	Sunday & Public Holidays	24 hours
Segregated Materials Area - Crushing and Screening	Monday - Friday	6:00am to 6:00pm
	Saturday	8:00am to 4:00pm
	Sunday & Public Holidays	8:00am to 4:00pm
Segregated Materials Area - Receipt of segregated materials	Monday - Friday	24 hours
	Saturday	8:00am to 4:00pm
	Sunday & Public Holidays	8:00am to 4:00pm
Landfill - Truck deliveries	Monday - Friday	5:00am to 9:00pm
	Saturday	5:00am to 9:00pm
	Sunday & Public Holidays	5:00am to 9:00pm

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## L6 Potentially offensive odour

L6.1 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.

### 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 dust emissions on the premises and prevent the emission of dust from the premises.

O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

### O4 Processes and management

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

O4.2 The Licensee shall:

- a) Implement suitable measures to manage pests, vermin and declared noxious weeds on site;
- b) Inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or noxious weeds are not present on site in sufficient numbers to pose an environmental hazard, or cause the loss of amenity in the surrounding area; and



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- c) Perform ongoing monitoring of weed infestation on and adjoining the site.

Note: For the purposes of this condition, noxious weeds are those species subject to an order declared under the Noxious Weeds Act 1993.

O4.3 The Licensee must have in place and implement procedures to minimise the risk of fire at the premises.

O4.4 The licensee must ensure no material, including sediment, is tracked from the premises.

## O5 Waste management

O5.1 The licensee must have in place and operate a calibrated weighbridge to record the weight in tonnes of all waste brought into the premises and to determine the occupier's section 88 levy liability.

O5.2 There must be no incineration or burning of any waste at the premises.

O5.3 The licensee must not exhume and/or expose any landfilled waste at the premises unless written approval is given by the EPA.

### O5.4 Covering of Waste

Cover material must be:

a) Daily Cover

Daily Cover must be either:

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

Daily 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 must be virgin excavated natural material.

Intermediate cover material 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.

O5.5 Until the updated filling plan, pursuant to Condition U1.4, is approved by the EPA and implemented, the Licensee must ensure that the size of the active waste tipping face or tipping faces (being the total area of the landfill surface that has uncovered waste) does not exceed 1000 square metres at any time.

O5.6 Until the updated filling plan, pursuant to Condition U1.4, is approved by the EPA and implemented, the Licensee must ensure that the size of the total area of the landfill surface that is not covered by intermediate cover does not exceed 4000 square metres at any time.

O5.7 The licensee shall ensure that at no time is asbestos waste (as defined in the POEO Act) permitted to be placed in the conveyor/chute system for conveyance to the base of the landfill.

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- O5.8 Landfill leachate must not be irrigated except as expressly permitted by a condition of this licence.
- O5.9 Water which contacts waste, other than virgin excavated natural material, must be managed as leachate. Leachate must only be disposed of by: a) disposal to sewer via a trade waste agreement, b) disposal at a facility licensed to accept such waste.
- O5.10 The licensee must only dispose of waste within the landfill void.
- O5.11 The licensee must submit and maintain a filling plan for the disposal of waste sequentially in each landfill cell(s). This Filling plan must be updated at intervals of no greater than 12 months.
- O5.12 The Basal cell lining shall be constructed in accordance with the Douglas Partners June 2011 Report entitled "Environmental Management Strategy June 2011 - Leachate Collection and Conveyance System" and in compliance with the NSW EPA Solid Landfill Guidelines, 1996 Benchmark Techniques 1 and 2. This includes the QA/QC and testing program specified in that report.

In accordance with the Douglas Partners Report, the layers shall be composed of:

- A recompacted clay liner 90 centimetres thick with an *in situ* co-efficient of permeability of less than  $10^{-9} \text{ ms}^{-1}$ ;
- 300mm of recycled picrite ballast as drainage layer; and
- $270\text{gm}^{-2}$  geotextile barrier.

- O5.13 Landfilling of waste and leachate levels must be managed to ensure the groundwater gradient directs groundwater flows inwards towards the landfill void.
- O5.14 The licensee must ensure that the leachate levels within the landfill are maintained below 0m AHD.
- O5.15 One month before the level of waste in the void reaches RL 25m AHD, the Licensee must submit to the EPA: a detailed technical report regarding the upper floor liner; permanent leachate collection system design and; quality assurance program.
- O5.16 No waste is to be emplaced in the pit above RL 25m AHD until the licensee has installed a permanent leachate barrier and collection system in accordance with a design approved by the EPA and the EPA has provided the licensee with written approval to dispose of waste in the pit above RL 25m AHD.
- O5.17 Prior to construction of the upper floor liners (25 AHD) and permanent leachate collection systems, the licensee must submit to the EPA a detailed design report including a construction quality assurance (CQA) program. The report must contain: details of the engineered features of the liner and leachate collection and conveyance system, leachate storage and disposal infrastructure, stormwater management controls, gas management system, proposed daily and intermediate covering, proposed filling plan and groundwater and gas monitoring networks. This must include detailed plans and specifications and full "for construction" engineering drawings. The CQA program must contain sufficient details of the proposed installation methods, tests, inspections and other verifications to demonstrate that all materials and constructed features will conform to the required plans and specifications. The design report and CQA program must be submitted to the EPA at each stage for approval prior to commencing construction works.

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- O5.18 Final capping must be installed in accordance with Benchmark Technique 28 of the EPA's Environmental Guidelines: Solid Waste Landfills (2016) or an equivalent cap approved by the EPA in writing.
- O5.19 The licensee must submit to the EPA within twelve 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.
- O5.20 The final contours of the landfill must be in accordance with the approved Closure Plan.

## Leachate Management Contingency Systems

- O5.21 A Leachate Collection Contingency System (LCCS) must be installed. The LCCS must be installed in general accordance with Section 6.1 and 6.2 of the document "DADI Landfill, Leachate Management Contingency System Design, PSM1034-003R REV 1, June 2017," (EPA DOC17/458260).
- O5.22 The foundation footprint for the LCCS must be prepared in accordance with Sections 2 (1) and (2) of the document "Technical Specification for DADI Landfill Leachate Management Contingency Systems PSM1034-003S, June 2017" (the Technical Specification) (EPA DOC18/584994).
- O5.23 The drainage material installed in the LCCS must be in accordance with 3.4 of the document "Technical Specification for DADI Landfill Leachate Management Contingency System PSM1034-003S, June 2017" (the Technical Specification), (EPA DOC18/584994).
- O5.24 The filter material installed in the LCCS must be in accordance with 3.5 of the document "Technical Specification for DADI Landfill Leachate Management Contingency System PSM1034-003S, June 2017" (the Technical Specification), (EPA DOC18/584994).
- O5.25 Within 30 days of completion of the installation of the LCCS the licensee must provide the EPA with a copy of the Geotechnical Inspection and Testing Authority Report (GITA Report) proposed in Section 5.1 of the document "Technical Specification for DADI Landfill Leachate Management Contingency System PSM1034-003S, June 2017" (the Technical Specification), (EPA DOC18/584994). The GITA Report must include photographic evidence and an as-built survey of the installed LCCS.

## O6 Other operating conditions

- O6.1 The licensee must manage any groundwater extracted from groundwater interception system in accordance with the report titled "Genesis Landfill Facility - Proposed Groundwater Sump" (Ref:BJ07/LT264 Rev B) by IGGC and dated 9 October 2012.
- O6.2 The proponent shall:
  - a) Implement suitable measures to prevent unnecessary proliferation of litter both on and off site; and
  - b) Inspect and clear the site and surrounding area, of litter on a daily basis.
- O6.3 The applicant must control pests and vermin at the premises.
- O6.4 The Licensee must ensure that adequately trained staff are available at the premises in order to administer the requirements of this Licence.

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- O6.5 Bunding must be maintained for the leachate storage tanks that;
- is impervious to the fluids contained; and
  - has sufficient capacity to contain 110% of the volume of the largest vessel; and
  - will contain all pressurised leaks or spills.
- O6.6 The Proponent shall store all chemicals, fuels and oils used on site in an appropriately designed impervious bunded area that contains 110 percent of the largest container contained within the bund. These bunds shall be designed and installed in accordance with the requirements of all relevant Australian standards, and/or EPA's Environment Protection Manual *Technical Bulletin Bunding and Spill Management*.
- O6.7 From 30 September 2021, the perimeter of the areas where waste has been or is being landfilled must be contoured to prevent stormwater running onto these surfaces from all storm events less than or equal to a 1 in 10 year 24 hour duration rainfall event (ARI).
- O6.8 From 30 September 2021, surface waters must be diverted away from any area where waste is being or has been landfilled.

## 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.
- M1.4 The licensee must record the date, duration and volume of any leachate discharge to surface water.

### 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 Water and/ or Land Monitoring Requirements

### POINT 2,3

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Quarterly	Grab sample
Cadmium	milligrams per litre	Quarterly	Grab sample
Chromium (total)	milligrams per litre	Quarterly	Grab sample
Copper	milligrams per litre	Quarterly	Grab sample
Electrical conductivity	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Quarterly	Grab sample
Nickel	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Quarterly	Grab sample

### POINT 5,6

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Special Frequency 1	Grab sample
Electrical conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

### POINT 7,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
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
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample

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Electrical conductivity	microsiemens per centimetre	Quarterly	Probe
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	micrograms per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Probe
Phenols	micrograms per litre	Yearly	Grab sample
Phosphorus	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	Probe
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

## POINT 32

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
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
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Electrical conductivity	microsiemens per centimetre	Quarterly	Probe
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample

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Nitrite	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	micrograms per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Phenols	milligrams per litre	Yearly	Grab sample
Phosphorus (total)	milligrams per litre	Quarterly	Grab sample
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 dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

M2.3 For the purposes of the table above Special Frequency 1 means the collection of samples:

- a) on the first day of the authorised discharge that is compliant with Condition L2.1 and weekly thereafter if the discharge continues; and
- b) within three days of the first day of discharge that is occurring as a result of a rainfall event at the premises.

Note: Surface water monitoring requirements and concentration limits for Points 2,3,5,6 will be reviewed by the EPA after one year of monitoring, with a view to reduce or remove these requirements where surface water quality at these Points is deemed not to be impacted by waste or leachate.

## M3 Testing methods - concentration limits

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

## M4 Environmental monitoring

M4.1 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.



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- M4.2 Wind strength and wind direction at the premises must be measured and recorded in degrees and knots/kmh at least every 15 minutes.
- M4.3 The groundwater monitoring network must be designed and installed in a manner that will achieve an equivalent environmental performance to that of Benchmark Technique 4 detailed in the EPA's Environmental Guidelines: Solid Waste Landfills (2016).
- M4.4 The groundwater monitoring program must be designed and implemented in a manner that will achieve an equivalent performance to the of Benchmark Technique 5 detailed in the EPA's Environmental Guidelines: Solid Waste Landfills (2016).

## **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 either the date of the issue of this licence.

## **M7 Other monitoring and recording conditions**

- M7.1 The proponent must provide an annual audit of the design, operation and odour management practices of the operation with the primary aim of identifying improvements that lead to attainment of best practice in regard to



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minimising odour emitted from the premises. The proponent must implement all reasonable audit recommendations. The scope of such an audit to be regularly reviewed in consultation with the EPA.

M7.2 The EPA may require the proponent to conduct assessments or investigations that identify the extent of any potentially offensive odour emissions beyond the boundary of the premises. The scope of such investigations to be agreed to by the EPA and may include revised air dispersion modelling based on actual site emissions data, well designed field investigations according to German standards, and/ or use of field olfactometers, and analysis of detailed complaints records and on-site meteorological data.

M7.3 Within one year after the Licence is varied to allow the disposal of waste at the Premises, the licensee must implement a landfill gas monitoring program designed to demonstrate whether landfill gas is migrating from the premises. This landfill gas monitoring program must meet the environmental goals detailed in Benchmark Technique 16 and 17 of the EPA Environmental Guidelines: Solid Waste Landfills (2016).

M7.4 The licensee must monitor and record, weekly, the height of the leachate relative to the Australian Height Datum at the leachate riser in the landfill.

## 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 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.



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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:
- in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
  - 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:
- the licence holder; or
  - 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.

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.

- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.
- R2.3 If the results of surface water quality monitoring in the sediment pond(s) required by condition M2.2 indicate ammonia concentrations greater than 1mg/L the licensee must contact the EPA within 24 hours and advise of the results of that monitoring.
- R2.4 If leachate is discharged to surface waters from the premises the licensee must notify the event to the EPA in accordance with condition R3.1.
- R2.5 The licensee must provide written details of any leachate discharge(s) referred to in Condition R2.4 to the EPA within 7 days of the date on which the incident occurred.

The written details referred to in the above condition must be provided as a report. The report must include the following information:

- the volume of the leachate discharged and over what time period the discharge occurred;
- the date and time of the commencement of the overflow;
- the weather conditions at the time of the discharge, specifying the amount of rainfall on a daily basis that had fallen:

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- on the day(s) of the discharge; and
- for the one week period prior to the discharge;
- d) the most recent monitoring results of the chemical composition of the leachate;
- e) an explanation as to why the discharge occurred;
- f) the location(s) of the discharge; and
- g) a plan of action to prevent a similar discharge in the future.

R2.6 If the results of monitoring at Point 25 as required by Condition M2.2 indicate ammonia concentrations greater than 2mg/L and/or TOC exceeds 20mg/L, the licensee must contact the EPA within 24 hours and advise of the results of that monitoring.

R2.7 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if any surface or enclosed space landfill gas monitoring undertaken at the premises detects methane concentrations above 1.25% (v/v), and

- a) increase the frequency of monitoring to daily, until the EPA determines otherwise, and
- b) submit a written assessment to the EPA within 14 days of the incident becoming known to the licensee detailing the emissions and the management controls implemented (or proposed to be implemented) to prevent further emissions.

R2.8

In the event of a fire at the facility the applicant must record:

- a) the time and date when the fire was deliberately started or reported;
- b) whether the fire was authorised by the applicant, and, if not, the circumstances which ignited the fire;
- c) the time and date that the fire ceased and whether it burnt out or was extinguished;
- d) the location of fire (eg. clean timber stockpile, putrescible garbage cell, etc);
- e) the prevailing weather conditions;
- f) any observations made in regard to smoke direction and dispersion;
- g) the amount of waste that was combusted by the fire; and
- h) the action taken to extinguish the fire.

## 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;

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- 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 Pollution Studies and Reduction Programs

### U1 Investigate and Control Landfill Gas and Odours

#### U1.1 U1.1 Background

During April to June 2021, the EPA identified offensive odours being emitted from the premises and also received a large number of community odour complaints.

This condition requires investigations and reporting to be undertaken by the licensee to implement improved management practices and address odorous emissions.

#### Aim

To investigate, develop, & implement works to minimise / manage landfill gases and eliminate off-site odours, as well as provide information to the community on these works, and on future incidents or events that could lead to offensive odour emissions from the Premises.

#### U1.2 Landfill Gas Management Plan

The licensee must:

- a) In consultation with the EPA, finalise the Landfill Gas Management Plan (LFGM Plan) to manage landfill gas and prevent the emission of any offensive odour from the premises by **30 September 2021**.

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- b) submit all required documentation to the Department of Planning, Industry and Environment to implement and commission the proposed permanent flaring system by **30 November 2021**.
- c) update the subsurface landfill gas monitoring plan (SLGM Plan) to comply with Section 5.3 of the EPA's Landfill Guidelines by **30 September 2021**.
- d) provide the EPA with an installation and commissioning report which details the installation of the system and includes "as constructed" diagrams for the temporary installed 3 flares and associated flaring system by **22 September 2021**.

Note: If off-site odours persist following the implementation of the gas management system, the EPA will require further investigation and works to address these odours.

Note: Following the review of the LFGM Plan and SLGM Plan EPA will add conditions to the licence relating to:

- Implementation of the LFGM Plan and SLGM Plan.
- the operation, performance and monitoring of the flare/s following the commissioning of the permanent flaring system and may propose further condition/s to oversee the implementation of improvement works.

## U1.3 Community Engagement Strategy

(a) The licensee must update its Community Engagement Strategy to keep the community informed of the progress of works to rectify landfill odours, the systems in place to manage odour risks, contemporary system upsets or scheduled maintenance that might increase the risk of odours, and any other environmental matters at the premises.

(b) The information presented in the strategy, must include, but may not be limited to;

- a description of the cause of the odours,
- proposed short-term and longer-term odour management works or options,
- the progress to date on these works and options, and
- contact details for community members to make a report or contact a representative of the licensee.

The strategy could include delivery of information through mediums such as; the licensee's website, targeted letterbox drops, articles in printed news media or social media sites.

(c) A copy of the Community Engagement Strategy must be provided to the EPA at least one (1) week before the due date.

(d) The Community Engagement Strategy must be placed on the Licensee's website and implemented by the due date.

## Due Date: 22 September 2021

## U1.4 Amended Filling Plan

The licensee must engage a suitably qualified expert/s to prepare and submit to the EPA an updated *Filling Plan* for the premises. The Plan must include details on:

- a. how the placement of waste and application of daily and intermediate cover material will be managed to minimise absorption of surface water into the waste mass, such as ensuring a minimum 2 % grade to facilitate the drainage of rainfall from the landfill surface as described in section 8 of the *Environmental Guidelines: Solid Waste Landfills* (EPA, Second Edition 2016).
- b. The staging of waste emplacement, including a detailed filling strategy demonstrating how the various outcomes relating to compaction, gas management, surface water management and leachate management have been considered and will be achieved

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- c. How landfilling over previous areas of intermediate and daily cover will be managed to reduce the risks of perched leachate and impeded gas flow
- d. The maximum total tipping face size, and maximum area not covered by intermediate cover
- e. The management measures to be put in place during modifications to gas and leachate management infrastructure during lifts to minimise risk of off-site offensive odours.

## Due Date: 30 September 2021

Note: Following the review of the plan, the EPA may propose further licence condition/s to require implementation of the Plan or relevant components.

## 9 Special Conditions

### E1 Requirement to maintain financial assurance

E1.1 (a) 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 prior to the issue of an environment protection licence allowing construction activities at the Premises. The financial assurance must be in favour of the EPA in the amount of two hundred thousand dollars (**\$200,000**). 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 written direction of the EPA, to any other person.

(b) 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 prior to the Licence being varied to allow the receipt of waste at the Premises. The financial assurance must be in favour of the EPA for a total amount to be held by the EPA of four hundred thousand dollars (**\$400,000**). 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 written direction of the EPA, to any other person.

Note that this total financial assurance is inclusive of that required in E1.1(a)

(c) 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 one calendar year after the EPA varies the Licence to allow the receipt of waste at the Premises. The financial assurance must be in favour of the EPA for a total amount to be held by the EPA of eight hundred thousand dollars (**\$800,000**). 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 written direction of the EPA, to any other person.



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Note that this total financial assurance is inclusive of that required in E1.1a) and E1.1b).

(d) The licensee must provide to the EPA, along with the original counterpart guarantee, confirmation in writing that the financial institution providing the guarantee is subject to supervision by the Australian Prudential Regulatory Authority (APRA).

- E1.2 An adjustment to the financial assurance must be calculated, each licence review period, in line with the Consumer Price Index for the number of years since the financial assurance was last paid. The financial assurance must be replenished to the full amount plus CPI adjustments each licence review period.
- E1.3 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.
- E1.4 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.
- E1.5 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.
- E1.6 The licensee must provide to the EPA the original counterpart guarantee within five working days of the issue of:
  - a) the financial assurance required by conditions E1.1, or
  - b) the adjusted financial assurance as required by condition E1.2 and E1.3

## E2 Claims on financial assurance

- E2.1 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.

## E3 Environmental Obligations of Licensee (Works and Programs)

- E3.1 While the licensee's premises are being used for the purpose to which the licence relates, the licensee must:
  - a) Clean up any spill, leak or other discharge of any waste(s) or other material(s) as soon as practicable after it becomes known to the licensee or to one of the licensee's employees or agents.
  - b) In the event(s) that any liquid and non-liquid waste(s) is unlawfully deposited on the premises, such waste(s) must be removed and lawfully disposed of as soon as practicable or in accordance with any direction given by the EPA.
  - c) Provide all monitoring data as required by the conditions of this licence or as directed by the EPA.
- E3.2 In the event of an earthquake, storm, fire, flood or any other event where it is reasonable to suspect that a pollution incident has occurred, is occurring or is likely to occur, the licensee (whether or not the premises continue to be used for the purposes to which the licence relates) must:
  - a) make all efforts to contain all firewater on the licensee's premises,
  - b) make all efforts to control air pollution from the licensee's premises,

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- c) make all efforts to contain any discharge, spill or run-off from the licensee's premises,
- d) make all efforts to prevent flood water entering the licensee's premises,
- e) remediate and rehabilitate any exposed areas of soil and/or waste,
- f) lawfully dispose of all liquid and solid waste(s) stored on the premises that is not already securely disposed of,
- g) at the request of the EPA monitor groundwater beneath the licensee's premises and its potential to migrate from the licensee's premises,
- h) at the request of the EPA monitor surface water leaving the licensee's premises; and
- i) ensure the licensee's premises is secure.

- E3.3 After the licensee's premises cease to be used for the purpose to which the licence relates or in the event that the licensee ceases to carry out the activity that is the subject of this licence, that licensee must:
- a) remove and lawfully dispose of all liquid and non-liquid waste stored on the licensee's premises; and
  - b) rehabilitate the site, including conducting an assessment of and if required remediation of any site contamination.



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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

Ms Julie Currey

Environment Protection Authority

(By Delegation)

Date of this edition: 02-March-2012

## End Notes

2	Licence varied by notice	1508182 issued on 31-Aug-2012
3	Licence varied by notice	1509249 issued on 15-Nov-2012
4	Licence varied by notice	1510881 issued on 24-Dec-2012
5	Licence varied by notice	1512149 issued on 04-Jul-2013
6	Licence varied by notice	1515838 issued on 11-Oct-2013
7	Licence varied by notice	1534175 issued on 06-Oct-2015
8	Licence varied by notice	1535829 issued on 22-Aug-2018
9	Licence varied by notice	1575668 issued on 07-Jun-2019
10	Licence varied by notice	1590361 issued on 25-Jun-2020
11	Licence varied by notice	1608782 issued on 07-May-2021
12	Licence format updated on	13-May-2021
13	Licence varied by notice	1612304 issued on 10-Sep-2021