



CONSULTING EARTH SCIENTISTS

**LANDFILL REHABILITATION AND CLOSURE PLAN
GENESIS FACILITY, HONEYCOMB DRIVE, EASTERN CREEK
PREPARED FOR DIAL-A-DUMP (EC) PTY LTD**

CES DOCUMENT REFERENCE: CES151203-DAD-AC

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**LANDFILL REHABILITATION AND CLOSURE PLAN
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1) INTRODUCTION

Consulting Earth Scientists Pty Ltd (CES) has been commissioned by Dial-A-Dump (EC) Pty Ltd (DADI), to prepare this General Rehabilitation and Closure Plan for the Genesis Waste Facility at Honeycomb Drive, Eastern Creek, New South Wales.

The landfilling activities (Waste disposal by application to land) are carried out at the facility under Environmental Protection Licence Number 13426 and the Resource Recovery and Waste Storage activities at the facility carried out under Environmental Protection Licence Number 20121.

The premises to which EPL 20121 applies are defined in the EPL as Part Lot 1 DP 1145808, Part Lot 4 DP 1145808, *“Shown as the area encompassed by the solid purple line on plan number 72757 prepared by Landpartners and dated 29 June 2011”*

The premises to which EPL 13426 applies are defined in the EPL as 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 Licenced Premises EPL 20121”*.

The quarry void referred to in EPL 13426 comprise a former breccia quarry with an approximate surface area of 265,000 m² at ground surface and 12,000 m² at the base. The quarry had a depth of approximately 135m prior to filling with waste. The natural ground surface around the quarry typically lies at between about 70 metres and 85 metres above the Australian Height Datum (mAHD). The base of the quarry prior to filling with waste was at an elevation of approximately -57 m AHD.

2) REHABILITATION & CLOSURE PLANNING & LICENCING INFORMATION

Condition 2 of Schedule 4 of the Project Approval for the Genesis Waste Facility, which was granted on 22 November 2009, includes the following requirement.

Rehabilitation / Closure Plan

2. Upon cessation of landfilling, the Proponent shall decommission the landfill and rehabilitate the site. The Proponent shall prepare and implement a Rehabilitation and Closure Plan. This plan must:

- a) Be prepared in consultation with EPA, and Council*
- b) Be prepared by a suitably qualified and experienced expert;*
- c) Be submitted to the Director-General for approval within 3 years of commencement of operations;*
- d) Define the objectives and criteria for rehabilitation and closure;*
- e) Investigate options for the future use of the site;*
- f) Describe the measures that would be implemented to achieve the specified objectives and criteria for the rehabilitation and closure;*
- g) Calculate the cost of implementing these measures; and*
- h) Describe how the performance of these measures would be monitored over time*

In addition to the above, EPL 13426 provides the following Conditions in relation to rehabilitation and closure of the site. A copy of EPL 13426 and EPL 20121 is enclosed in Appendix A to this document.

EPL 13426 Condition O5.19 states the: *“Final capping must be installed in accordance with Benchmark Technique 28 of the EPA's Environmental Guidelines: Solid Waste Landfills (January 1996) or an equivalent cap approved by the EPA in writing.*

EPL 13426 Condition O5.20 states: *“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”.*

EPL 13426 Condition O5.21 states: *“The final contours of the landfill must be in accordance with the approved Closure Plan”.*

The relevant section (Section 76) of the Protection of the Environment Operations Act 1997 referred to in Condition O5.20 of EPL 13426 states the following:

76 Post-closure requirements for waste facilities or other licenced premises

(1) The conditions of a licence, including the conditions of the suspension, revocation or surrender of a licence, may require:

(a) the holder of the licence to submit to the appropriate regulatory authority a closure plan in relation to the premises to which the licence applies or applied, and

(b) the last licensee to implement a closure plan approved by the appropriate regulatory authority.

(2) A closure plan in relation to premises that is required to be submitted to an appropriate regulatory authority under the conditions of a licence must:

(a) specify the steps taken (or to be taken) in closing, stabilising or rehabilitating the premises and the time-frame for doing so, and

(b) provide for a post-closure monitoring and maintenance program, and

(c) identify any proposed future uses of the premises, and

(d) comply with any other specified requirements relating to the plan.

(3) The appropriate regulatory authority may approve the closure plan as submitted to it, or may vary the plan before approving it.

(4) In this section:

"last licensee" means the person who was the holder of a licence for any premises immediately before the licence ceased to be in force.

3) PURPOSE OF THIS LANDFILL REHABILITATION & CLOSURE PLAN

With reference to EPL 13426 condition O5.20, a closure plan is to be submitted within 12 months prior to the last load of waste being landfilled. Based on current available landfilling void space and rates of filling, there is estimated to be more than 20 years of landfill operations remaining at the Genesis Facility before reaching capacity and requiring closure.

This landfill General Rehabilitation and Closure Plan describes the general principles and guidelines on which the landfill will be closed and rehabilitated. In accordance with Condition 05.20 of EPL 13426 however, a final detailed landfill rehabilitation and closure plan shall be prepared and submitted within 12 months prior to the last load of waste being landfilled at the site.

4) NSW EPA ENVIRONMENTAL GUIDELINES: SOLID WASTE LANDFILLS (JANUARY 1996)

At the time of the project approval in 2009 and as referenced in EPL 13426 Condition O5.19, the relevant guidance document contemplated in relation to the rehabilitation and closure of solid waste

landfills in New South Wales is the NSW EPA Environmental Guidelines: Solid Waste Landfills (January 1996) (ISBN 0 7310 3774 X) and in particular Benchmark Techniques 28 (BT28) Site Capping and Revegetation and Benchmark Technique 29 (BT29) Landfill Closure and Post-Closure Monitoring and Maintenance.

4.1) BENCHMARK TECHNIQUE 28 (BT28) – SITE CAPPING & REVEGETATION

The proposed final landform for the site is shown in Landpartners Surveyors Drawing Number 71929DES dated 15/05/2009, enclosed in Appendix 4 of the Development Approval.

The final capping will be constructed to ensure that the final surface provides a suitable barrier to the migration of water into the waste, controls emissions to water and atmosphere, promotes sound land management and conservation, and prevents hazards and protects amenity.

In accordance with BT28, the final capping should comprise the following layers (layer closest to the waste listed first):

- 1) A seal-bearing surface - This is required to be a properly designed and engineered layer of material (assume 300mm thick layer of material specified to meet suitable geotechnical specifications prepared by a suitable qualified and experienced geotechnical practitioner).
- 2) A gas drainage layer - The gas drainage layer should have a minimum thickness of 300mm. The gas drainage media should also have a calcium carbonate content of less than 10% by weight. The gas drainage layer will only be required if significant amounts of landfill gas is detected or anticipated to be generated at the site at the completion landfilling. The requirement or otherwise of the gas drainage layer will be subject to a landfill gas risk assessment to be undertaken by a suitable qualified Environmental Consultant at the time of landfill closure.
- 3) A sealing layer - A sealing layer should consist of a clay layer at least 500mm thick and have a permeability less than $K = 10^{-8}$ metres/second.
- 4) An infiltration drainage layer – This should be not less than 300mm deep and a permeability of not less than $K = 10^{-5}$ metres/second.
- 5) A revegetation layer. The revegetation layer should have a depth of not less than 1000mm.
- 6) Plants selected for revegetation shall have root systems which will not penetrate beyond the revegetation layer or block the drainage layer.
- 7) The final settlement of the seal-bearing surface should leave a gradient of greater than 5% to defined drainage points.

As stated in EPL 13426 Condition O5.19, an equivalent capping to the above approved by the EPA may also be used. The detailed design for the site capping should be provided in the final capping plan be submitted within 12 months prior to the last load of waste being landfilled.

4.2) BENCHMARK TECHNIQUE 29 (BT29) – LANDFILL CLOSURE & POST-CLOSURE MONITORING AND MAINTENANCE

To ensure that the landfill does not cause environmental harm after site closure, a post-closure monitoring and maintenance program will be developed within 12 months prior to the last load of waste being landfilled which monitors and demonstrates the long-term integrity of the landfill and that the landfill does not pose a significant risk to the environment.

The facility currently has a significant amount of capacity remaining with potentially over 20 years operational life remaining. As such, the actual post-closure environmental objectives and targets of any rehabilitation and monitoring plan in relation to emissions to water, emissions to the atmosphere, and protection of land use and local amenity, cannot currently practicably or reasonably be assessed. Notwithstanding this, the following principals will apply to the final closure and post closure monitoring, maintenance and rehabilitation programme.

- The proposed monitoring and maintenance programme will be carried out until it can be demonstrated that the landfill does not pose a significant risk to the environment.
- The final plan will specify the steps to be taken in closing and stabilising the facility and the time frame for doing so.
- The final plan will ensure that all leachate collection, gas collection and stormwater sediment controls, monitoring and reporting practices, are maintained to a standard equivalent to that employed during the operational life of the landfill.
- The programme will prescribe measures that ensure that neighbouring residents are advised of contact persons to discuss any problems (e.g. odour emissions). Records of these complaints should be kept in the same manner as approved during operation of the facility.
- Ensure that waste materials are not received for disposal by the facility after landfill operations cease.
- Waste materials that are intended for use in the remediation should be documented and reported in the same way as for an operating facility.
- When sufficient information can be provided that the landfill is stable and does not pose a significant risk to the environment, the occupier may seek to complete all obligations and

retrieve the financial assurance by submitting a certified statement of completion to the effect that site remediation work has been completed and further environmental management of the premises is not required. Generally, this statement will be expected to show that:

- Gas concentration levels in all perimeter gas wells have fallen to less than 1% methane (v/v) and less than 1.5% carbon dioxide for a period of 24 months.
- The waste is stable, this would typically be demonstrated by assessing that the leachate generated at the site does not pose significant adverse risk to the environment.
- Groundwater monitoring indicates that the leachate management infrastructure e.g. landfill liner/leachate collection and conveyance system is functioning appropriately.
- The landfill capping is assessed to be stable with acceptable surface water drainage.
- Once the EPA has approved the certified statement of completion, the last licensee can cease the maintenance and monitoring of the site, and any financial assurance requirements will lapse.

5) CLOSING

As stated previously, the Genesis Facility currently has a significant amount of capacity with potentially over 20 years operational life remaining. As such, the actual post-closure environmental objectives and targets of any rehabilitation and monitoring plan in relation to emissions to water, emissions to the atmosphere, and protection of land use and local amenity cannot currently practicably be assessed. This plan therefore provides a general approach and describes the principals that should be applied at the time of closure of the facility.

As stated in EPL 13426 condition O5.20, a closure plan, is to be submitted within 12 months prior to the last load of waste being landfilled. The final closure plan submitted within 12 months prior to the last load of waste being landfilled should provide the detailed capping design for the facility and define the landfill closure and post-closure monitoring, maintenance and rehabilitation requirements and objectives.

APPENDIX A

COPIES OF ENVIRONMENTAL PROTECTION LICENCES

EPL 20121 & EPL 13426

Environment Protection Licence

Licence - 13426



Licence Details

Number:	13426
Anniversary Date:	02-March

Licensee

DIAL-A-DUMP (EC) PTY LTD

PO BOX 1040

MASCOT NSW 1460

Premises

GENESIS FACILITY

HONEYCOMB DRIVE

EASTERN CREEK NSW 2766

Scheduled Activity

Waste Disposal (application to land)

Waste Storage

Fee Based Activity

Scale

Waste disposal by application to land	Any annual capacity
Waste storage - other types of waste	> 0 T stored

Region

Waste & Resources - Waste Management

59-61 Goulburn Street

SYDNEY NSW 2000

Phone: (02) 9995 5000

Fax: (02) 9995 5999

PO Box A290 SYDNEY SOUTH

NSW 1232

Environment Protection Licence

Licence - 13426



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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).

Environment Protection Licence

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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:

DIAL-A-DUMP (EC) PTY LTD
PO BOX 1040
MASCOT NSW 1460

subject to the conditions which follow.

Environment Protection Licence

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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 annual capacity
Waste Storage	Waste storage - other types of waste	> 0 T 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
GENESIS FACILITY
HONEYCOMB DRIVE
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, except as expressly provided by a condition of this licence.

Environment Protection Licence

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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 surface water detention basin
3	Surface water quality monitoring		South-west onsite surface water detention basin
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 "BH5s" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
9	Groundwater monitoring		Groundwater monitoring well near leachate treatment plant (sth-east area) labelled as "BH8s" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012

Environment Protection Licence

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10	Groundwater monitoring	Groundwater monitoring well in western carpark adjacent to weighbridge labelled as "BH9s" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
11	Groundwater monitoring	Groundwater monitoring well in north-west area adjacent to quarry access road labelled as "BH14s" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
12	Groundwater monitoring	Groundwater monitoring well on eastern access track labelled as "BH15s" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
13	Groundwater monitoring	Groundwater monitoring well on sth site boundary - adjacent to concrete pad labelled as "BH16s" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
14	Groundwater monitoring	Groundwater monitoring well in western carpark adjacent to weighbridge labelled as "BH2i" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
15	Groundwater monitoring	Groundwater monitoring well on nth site boundary labelled as "BH4i" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
16	Groundwater monitoring	Groundwater monitoring well in sth-east area adjacent to leachate treatment plant labelled as "BH7i" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012

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17	Groundwater monitoring	Groundwater monitoring well in sth-west service station area labelled as "BH11i" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
18	Groundwater monitoring	Groundwater monitoring well in nth-east boundary labelled as "BH13i" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
19	Groundwater monitoring	Groundwater monitoring well on northern boundary labelled as "BH3d" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
20	Groundwater monitoring	Groundwater monitoring well in sth-east area near leachate treatment plant labelled as "BH6d" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
21	Groundwater monitoring	Groundwater monitoring well near workshop, sth-west part of site labelled as "BH10d" in Figure3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
22	Groundwater monitoring	Groundwater monitoring well near workshop, nth-east premises boundary labelled as "BH12d" in Figure3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
23	Groundwater monitoring	Groundwater monitoring well in quarry on western side labelled as "BH17d" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012

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24	Groundwater monitoring	Groundwater monitoring well on sth site boundary on concrete pad labelled as "BH18d" in Figure 3: Locations of Current Bores of the report titled "Stage 1 Groundwater Monitoring Network" (Ref:BJ07/Rp053 Rev B1) dated October 2012
25	Groundwater quality monitoring	Temporary groundwater interception sump in base of landfill
26	Leachate quality monitoring	Leachate sump located in the easternmost extremity of the quarry base at a point approximately 50 metres sth of the northern quarry wall at that point.
27	Leachate Level Monitoring	Leachate Level Monitoring labelled as "XXX" on map titled "XXXX" dated 00/00/13 (Location to be confirmed)

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

Noise

EPA identification no.	Type of monitoring point	Location description
1	Noise monitoring	Nearest affected receivers

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.

Environment Protection Licence

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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

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
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Environment Protection Licence

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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 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.	Waste disposal (application to land)	N/A
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 700, 000 tonnes of non-putrescible waste per calendar year.

Note: If the licence permits the disposal of asbestos waste, the licensee must comply with Clause 42 of the Protection of the Environment Operations (Waste) Regulation 2005.

L3.3 Except for the following, the Proponent shall dispose of all outputs produced from the waste processing

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and/or resource recovery facility on site, subject to Environment Protection Licence 20121, to the Landfill:

- a) Recyclables extracted and delivered off-site for resource recovery purposes;
- b) Hazardous wastes extracted from the input waste stream and lawfully disposed of off-site; and
- c) Output waste derived materials approved for use under the *Protection of the Environment Operations Act, 1997* and Regulations.

L3.4 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.

L3.5 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:

- a) "2009/07 Metallurgical furnace slag or metallurgical furnace slag contaminated natural excavated materials"
- b) "1999/05 Ash, ash-contaminated natural excavated materials or coal-contaminated natural excavated materials"

L4 Noise limits

L4.1 Noise generated from the Landfill must not exceed the noise limits presented in the table below:

Residence Location	Day LAeq, 15min (dBA)	Noise Criteria LAeq, 15min (dBA)
Nearest affected receiver (Minchinbury)	36	36
Nearest affected Receiver (Erskine Park)	36	36

L4.2 Notes:

- a) 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.
- b) 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.

L4.3 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

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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	LAeq	Continuous	36

L5 Hours of operation

- L5.1 Operating hours for all activities at the Premises must be limited to between 7:00am and 6:00pm Monday to Friday, and 8:00am to 4:00pm Saturday, Sunday and Public Holidays.
- L5.2 Operating hours of the conveyor and chute system are restricted to the facilities operational hours as specified in Condition L5.1.

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:
- the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - 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:

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- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.
- O3.2 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
 - 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 minimise the tracking of waste and mud by vehicles leaving 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 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

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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 must be virgin excavated natural material.

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 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.

O5.6 The licensee must not carry out any activity that exposes previously landfilled waste at the premises, except as expressly permitted by a condition of this licence.

O5.7 Landfill leachate must not be irrigated except as expressly permitted by a condition of this licence.

O5.8 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.

O5.9 The licensee must only dispose of waste within the landfill void.

O5.10 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.

O5.11 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} ms⁻¹;
- 300mm of recycled picrite ballast as drainage layer; and
- 270gm⁻² geotextile barrier.

O5.12 Landfilling of waste and leachate levels must be managed to ensure the groundwater gradient directs groundwater flows inwards towards the landfill void.

O5.13 The licensee must ensure that the leachate levels within the landfill below RL 25m AHD are maintained at:

- (a) No more than RL minus 45m AHD at monitoring point 26; and
- (b) No more than RL minus 35m AHD at monitoring point 27; and
- (c) In any case at least 5m below the minimum elevation of the waste surface.

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- O5.14 Before the level of waste in the landfill reaches RL -20m AHD, the Licensee must submit to the EPA a technical report providing a detailed design and construction quality assurance program for the mid floor liner for the EPA's review and approval.
- O5.15 No waste is to be emplaced in the landfill above RL -10m AHD until the Licensee has installed a liner in accordance with a design approved by the EPA and the EPA has provided the licensee with written approval to dispose of waste within the above RL -10m AHD.
- O5.16 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.
- O5.17 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.
- O5.18 Prior to construction of the mid floor (-10m AHD) and 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.
- O5.19 Final capping must be installed in accordance with Benchmark Technique 28 of the EPA's Environmental Guidelines: Solid Waste Landfills (January 1996) or an equivalent cap approved by the EPA in writing.
- O5.20 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.
- O5.21 The final contours of the landfill must be in accordance with the approved Closure Plan.

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:
- Implement suitable measures to prevent unnecessary proliferation of litter both on and off site; and
 - Inspect and clear the site and surrounding area, of litter on a daily basis.

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- 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 License.
- 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*.

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:
- M2.2 Water and/ or Land Monitoring Requirements

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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

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
Electrical conductivity	microsiemens per centimetre	Quarterly	Probe
Ethyl benzene	milligrams per litre	Yearly	Grab sample

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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 + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Phenols	micrograms per litre	Yearly	Grab sample
Phosphorus	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	As approp.	Quarterly	Probe
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 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 25

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Monthly	Grab sample
Total organic carbon	milligrams per litre	Monthly	Grab sample

POINT 26

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
Conductivity	milligrams per litre	Quarterly	Probe
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample

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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
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	Grab sample
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

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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.

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 (January 1996).

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 (January 1996).

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.

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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 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 (January 1996).

M7.4 The Licensee must monitor and record, weekly, the height of the leachate relative to the Australian Height Datum at EPA Points 26 and 27.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
a) a Statement of Compliance; and
b) a Monitoring and Complaints Summary.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

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

R1.3 Where this licence is transferred from the licensee to a new licensee:

a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new

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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 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 Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

a) the licence holder; or

b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

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 the incident occurred.

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:

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

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;
- 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

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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 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)

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(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.

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

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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,
- 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.

E4 Approved alternative daily cover specification – particulate waste materials

E4.1 In accordance with condition O5.4 the Licensee may apply material as an alternative daily cover that meets the following criteria:

a. The alternative daily cover must consist only of crushed concrete and/or crushed bricks and/or crushed clay tiles and/or crushed glass fines from domestic or commercial recycling collections, mixed with soil. The amount of soil in the mixture must be at least 25% (by mass).

b. The alternative daily cover must be applied to a depth of at least 150mm at the close of each operational day.

c. The alternative daily cover material must not contain contaminants at concentrations above those specified for General Solid Waste (Non-putrescible) in Tables 1 and 2 of the Waste Classification Guidelines, Part 1: Classifying Waste.

d. The alternative daily cover material must not contain asbestos, food waste, animal waste, grease trap waste, biosolids, rubber, plastic, bitumen, asphalt, paper, cloth, paint, wood, other vegetable matter, plaster and metal.

e. The maximum permissible dimension of particles is 50mm and 50% by mass of the material must be

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comprised of particles less than 1mm in diameter. Note: To meet all of the requirements in this approval, it is likely that the alternative daily cover will require processing into a fine particle size.

f. The alternative daily cover material must have the ability to suppress odours from the landfilled waste and must not itself generate offensive odours.

g. Rainwater which comes into contact with the alternative daily cover must be managed as landfill leachate.

E5 Installation of Stage 2 of Groundwater Monitoring Network

E5.1 Prior to the waste in the cell reaching the equivalent level of 30mAHD the six Stage 2 (two intermediate and four shallow) groundwater monitoring bores detailed in the report titled "Groundwater Monitoring Plan: Genesis Facility, Eastern Creek" dated March 2012 and prepared by IGGC ("the Report") and located approximately in accordance with 'Figure 3: Bore Locations (approximate)' contained within the Report must be installed.

The bores must be installed and constructed in accordance with the Report and/or any new hydrological data.

E5.2 Prior to installation of the groundwater monitoring bores the EPA must be notified so conditions requiring the installation and monitoring of the groundwater bores can be added to the Licence.

E5.3 No waste may be disposed of in the cell once it reaches the equivalent level of 30 mAHD until the groundwater monitoring bores detailed in Condition E5.1 are installed to the satisfaction of the EPA, and the EPA provides approval in writing.

E6 Alternative Daily Cover trial

E6.1 The licensee may conduct a trial using the alternative daily cover ConCover for a twelve (12) month period. The alternative daily cover operational trial:

- a) shall commence from the first day alternative daily cover is utilised at the premises;
- b) may use polymer and fibre based product specifically developed to cover waste at the premises as specified in the report titled 'Genesis Landfill Facility - Assessment and Justification for a trial use of Concover' dated 19 December 2012 and prepared by Genesis;
- c) be undertaken in accordance with the report titled 'Genesis Landfill Facility - Assessment and Justification for a trial use of Concover' dated 19 December 2012 and prepared by Genesis;
- d) the trial does not include intermediate cover; and
- e) in accordance with clause 42 of the Protection of the Environment Waste Regulation, the trial does not permit use of concover on asbestos waste.

E6.2 The licensee must provide a written report to Manager Waste Operations, Environment Protection Authority PO Box A290 Sydney South NSW 1232, within 30 days of the end of the alternative daily cover operational trial. The report must include, but not limited to:

- a) a qualitative assessment of the effectiveness of the alternative daily cover in meeting the objectives of Benchmark Techniques 33 of the EPA's Environmental Guidelines: Solid Waste Landfills (1996); and
- b) a qualitative assessment of the in-field practical effectiveness of using alternative daily cover.

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E7 Structural Pipe Loading Analysis Report, Odour Impact Assessment and Design Specifications for a Leachate Monitoring Well

E7.1 A. The Licensee must submit the following information to the EPA by 31 December 2013:
A structural Pipe Loading Analysis Report that assesses the increased loading on pipework and leachate collection infrastructure, taking into account both landfilled waste and an additional 20m of leachate. The assessment must assess whether the following elements can withstand the additional downward pressures without their structural integrity or performance being compromised:

- i. the basal leachate collection pipework, and
- ii. the leachate extraction shaft.

The report must include all supporting calculations and assessments and must be prepared by an engineer, such as a civil or geotechnical engineer, with qualifications acceptable to the Institution of Engineers Australia (or equivalent) and with experience in landfill design and construction.

B. The Licensee must submit the following information to the EPA by 31 January 2014:

An Odour Impact Assessment, undertaken by a suitably qualified expert in accordance with Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (DEC, 2005), that includes:

- i. An analysis of current odour emissions from the landfill and identification of potential odour sources at the premises based on current operations;
- ii. An analysis of the odour potential of leachate accumulated to a depth of 20m within the landfill, including analysis and characterisation of the leachate from odorous compounds; and
- iii. Predicted off-site odour emissions caused by 20m of accumulated leachate in the landfill.

E7.2 The Licensee must provide to the EPA by 17 December 2013 design specifications for a leachate monitoring well within Lot 1 DP 1145808 that will be designed to be functional for the life of the landfill that includes;

- i. Material specifications;
- ii. Structural calculations;
- iii. Cross sectional drawings;
- iv. Schedule for construction; and
- v. Location plan.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

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

Environment Protection Licence



Licence - 20121

Licence Details

Number:	20121
Anniversary Date:	08-June

Licensee

DIAL-A-DUMP (EC) PTY LTD

PO BOX 1040

MASCOT NSW 1460

Premises

GENESIS RECYCLING FACILITY

HONEYCOMB DRIVE

EASTERN CREEK NSW 2766

Scheduled Activity

Composting

Resource Recovery

Waste Storage

Fee Based Activity

Scale

Composting	> 5000-50000 T of organics received
Recovery of general waste	> 0 T recovered
Waste storage - other types of waste	> 0 T stored

Region

Waste & Resources - Waste Management

59-61 Goulburn Street

SYDNEY NSW 2000

Phone: (02) 9995 5000

Fax: (02) 9995 5999

PO Box A290 SYDNEY SOUTH

NSW 1232

Environment Protection Licence



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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:

DIAL-A-DUMP (EC) PTY LTD
PO BOX 1040
MASCOT NSW 1460

subject to the conditions which follow.

Environment Protection Licence



Licence - 20121

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
Composting	Composting	> 5000 - 50000 T of organics received
Resource Recovery	Recovery of general waste	> 0 T recovered
Waste Storage	Waste storage - other types of waste	> 0 T stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
GENESIS RECYCLING FACILITY
HONEYCOMB DRIVE
EASTERN CREEK
NSW 2766
PART LOT 1 DP 1145808, PART LOT 4 DP 1145808
SHOWN AS THE AREA ENCOMPASSED BY THE SOLID PURPLE LINE ON PLAN NUMBER 72757 PREPARED BY LANDPARTNERS AND DATED 29 JUNE 2011

A3 Other activities

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

Ancillary Activity
Resource recovery (recovery of waste tyres)
waste processing (non-thermal treatment of waste tyres)

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

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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.

Scheduled Development Works

- A4.2 The approval to carry out the scheduled activity of composting is subject to consent being obtained from the Department of Planning and Infrastructure and the installation of all infrastructure as required by Project Approval 06-0139 (as modified).

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
1	Dust monitoring point - North		Northern boundary near to the M4 Motorway
2	Dust monitoring point - East		Eastern boundary
3	Dust monitoring point - South		Southern boundary
4	Dust monitoring point - West		Western boundary near Archibold Rd

- 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
5	Surface water quality monitoring		North-west onsite surface water detention basin
6	Surface water quality monitoring		South-west onsite surface water detention basin

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7	Surface water overflow	Surface water overflow	Overflow (weir) from north-west surface water detention basin
8	Surface water overflow	Surface water overflow	Overflow (weir) from south-west surface water detention basin

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.

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 Water and/or Land Concentration Limits

POINT 5,6,7,8

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

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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	Wood waste	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Resource recovery Waste storage	
NA	Garden waste	As defined in Schedule 1 of the POEO Act, as in force from time to time.	Resource recovery Waste storage Composting	No more than 20,000 tonnes of Garden Waste may be stored at the premises at any one time.
NA	Building and demolition waste	As defined in Schedule 1 of the POEO Act, as in force from time to time	Resource recovery Waste storage	
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, as in force from time to time	Resource recovery Waste storage	No more than 50 tonnes permitted to be stockpiled on site at any one time
NA	Soils	Soils that meet the CT1 thresholds for General Solid Waste in Table 1 of 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 storage	Arsenic 40mg/kg; Cadmium 2mg/kg; Copper 200mg/kg; Mercury 1.5mg/kg; Zinc 600mg/kg; Petroleum Hydrocarbons C6-C9 150mg/kg; Petroleum Hydrocarbons C10-C36 1600mg/kg; Polycyclic Aromatic Hydrocarbons 80mg/kg; Polychlorinated Biphenyls (individual)

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				1mg/kg.
				No Acid Sulfate Soil or Potential Acid Sulfate Soil is to be received at the Premises.
				Soil thresholds will be subject to review from time to time.
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as in force from time to time	Resource recovery Waste storage	Limited to bricks, concrete, metal, glass, plastic and sandstone or a combination of the above.

L3.2 No disposal or landfilling of waste may occur at the premises.

L3.3 The applicant must have in place and implement procedures to identify and prevent the acceptance of any waste not permitted by condition L3.1 to be accepted at the premises.

L3.4 No asbestos waste is to be accepted or stored at the premises.

L3.5 Garden waste stockpiled on the premises shall not exceed 20,000 tonnes at any one time.

L3.6 Each individual wood waste stockpile both processed and unprocessed will be limited in size to < 2000 tonnes.

L3.7 The authorised amount of waste permitted on the premises cannot exceed 667000 tonnes at any one time.

L4 Noise limits

L4.1 Noise generated from the Landfill and Resource Recovery Facility must not exceed the noise limits presented in the table below:

Residence Location	Day LAeq, 15min (dBA)	Night LAeq, 15min (dBA)
Nearest affected receiver (Minchinbury)	36	35
Nearest affected receiver (Erskine Park)	36	35

Note: For the purpose of condition L4.1;

- Daytime is defined as the period from 6am to 6pm Monday to Friday, and 6am to 4pm Saturday, Sunday and public holidays; and
- Night is defined as 6pm to 6am.

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Note: "Noise" refers to sound pressure levels for the purposes of condition L4.1 to L4.7.

L4.2 The noise limits set out in condition L4.1 apply under all meteorological conditions except for the following:

The noise emission limits identified apply under meteorological conditions of:

- a) Wind speed up to 3m/s at 10 metres above ground level: or
- b) Temperature inversion conditions of up to 3°C/100m and wind speed of up to 2m/s at 10 metres

L4.3 For the purposes of condition L4.2:

- a) Data recorded by the nearest Bureau of Meteorology station must be used to determine meteorological conditions; and
- b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.

L4.4 To determine compliance:

- a) with the LAeq (15 minute) noise limits in condition L4.1, the noise measurement equipment must be located as follows:

Noise from the operation 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 operation is impractical, the EPA may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy).

L4.5 A non-compliance of condition L4.1 will still occur where noise generated from the premises in excess of the appropriate limit is measured:

- at a location other than an area prescribed by conditions L4.1(A) and L4.1(B); and/or
- at a point other than the most affected point at a location.

L4.6 For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

Note: NSW Industrial Noise Policy refers to the document entitled "New South Wales Industrial Noise Policy" published by the NSW Environment Protection Authority in January 2000."

L4.7 Noise monitoring must be conducted as per licence conditions with additional monitoring times to reflect the extended operating hours.

L5 Hours of operation

L5.1 Operating hours for all activities at the Premises must be limited to between 7:00am and 6:00pm Monday to Friday, and 8:00am to 4:00pm Saturday, Sunday and Public Holidays.

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- L5.2 Operating hours for the operation of the Main Processing Centre will be from 6:00am to 10:00pm Monday to Friday and 6:00am to 4:00pm Saturday, Sunday and public holidays.
- L5.3 Operating hours of the conveyor and chute system are restricted to the premises operational hours as specified in Condition L5.1.

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.

L7 Other limit conditions

- L7.1
 - a. stockpiles of processed garden waste within the Green Waste/Timber Waste Area will not exceed the height of the existing surrounding concrete walls (2.5 metres).
 - b. stockpiles of unprocessed garden waste and processed and unprocessed wood waste will not exceed 2.5 metres above the height of the existing surrounding concrete walls (2.5 metres).
- L7.2 No stockpile at the premises is to exceed the height of the Amenity Berms at 10 meters.

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.

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O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.2 The licensee must ensure that all activities conducted at the premises are carried out in a manner which minimises or prevents the generation of dust.
- O3.3 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.
- O3.4 The Licensee must ensure that all stockpiles are kept wet during the transfer of waste to and from stockpiles and during processing to minimise the generation of dust.

O4 Emergency response

- O4.1 The Licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The Licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

O5 Processes and management

- O5.1 The licensee must ensure that waste that has been recovered is stockpiled separately.
- O5.2 The licensee must:
 - 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
 - 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.

- O5.3 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.
- O5.4 The licensee must take all practicable steps to control entry to the premises.
- O5.5 The Licensee must not allow the tracking of waste and mud by vehicles leaving the premises.
- O5.6 The Licensee must ensure that all waste stored or processed at the premises is assessed and classified in accordance with the EPA Waste Classification Guidelines as in force from time to time.

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- O5.7 All stormwater and stormwater treatment devices (including drainage systems, sumps and traps) must be regularly maintained.
- O5.8 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.

O6 Waste management

Tyre Waste Management

- O6.1 The licensee must ensure that stockpiles of waste tyres are located in a clearly defined area.
- O6.2 The licensee must ensure that stockpiles of waste tyres are managed so as not to cause or to be likely to cause the spread of disease by vermin.
- O6.3 The licensee must ensure that measures are taken to prevent stockpiles of waste tyres from catching on fire.
- O6.4 Without limiting the above conditions, any area(s) used for the storage of waste tyres at the premises must:
 - a) be surrounded by a fire break of at least six (6) metres, which is kept clear of combustible material; and
 - b) be fenced or otherwise secured to prevent any unauthorised access to the waste tyres and the fire break.

Leachate Management

- O6.5 Water which contacts waste in the garden waste area or the Materials Processing Centre, 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.
- O6.6 Leachate must not be irrigated and/or used for dust control at the premises.
- O6.7 The Licensee must not cause or permit any leachate to pool at the premises.

Asbestos Waste Management

- O6.8 The Licensee must ensure that at no time is asbestos waste (as defined in the POEO Act) is permitted to be placed in the conveyor/chute system for conveyance to the base of the landfill.

Weighbridge Operation

- O6.9 The licensee must have in place and operate a calibrated weighbridge to record the volume of all waste brought into the premises.

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O6.10 The licensee must continuously operate video surveillance cameras at all weighbridges associated with the conveyor belt transfer system.

O6.11 All vehicles entering and exiting the premises must be recorded as they pass across the weighbridges or pass through a dedicated vehicle access point that has video monitoring and electronic recorded 'boom gates'.

Waste Incineration

O6.12 There must be no incineration or burning of any waste at the premises.

Volumetric Survey

O6.13 The licensee must submit to the EPA's Waste Operations every 6 months, a volumetric survey of the Premises carried out by a registered surveyor:

- a) During June each year and provided to the EPA in the approved form and manner by no later than 31 July in that year; and
- b) During December each year and provided to the EPA in the approved form and manner by no later than 31 January in that year.

Composting

O6.14 The licensee shall manage windrow composting operations in accordance with AS 4454-2003: Composts, Soil Conditioners and Mulches, Appendix N, Best practice guidelines for Composting Systems, the EPA Environmental Guidelines for Composting & Related Organics Processing Facilities, or other practices approved by the EPA.

O6.15 Each gardenwaste windrow must have an individual cover and aerobic equipment fitted to reduce odour and the generation of leachate.

O6.16 The licensee will construct and maintain designated bays of approximately 5m x 15m separated by concrete walls in the Garden Waste/ Timber Waste area generally in accordance with the document "LHBC Environment Assessment Report " dated August 2010 before composting.

O7 Other operating conditions

Bunding Requirements

O7.1 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 of the largest vessel; and
- will contain all pressurised leaks or spills.

O7.2 The licensee 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*.

Litter and Pest Management

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O7.3 The licensee must:

- 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.

O7.4 The applicant must control pests and vermin at the premises.

Staff Training

O7.5 The licensee must ensure that adequately trained staff are available at the premises in order to administer the requirements of this licence.

Wheel Wash

O7.6 All vehicles leaving the premises must be first put through an operating wheel wash except those that have not been in the material processing and storage areas.

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 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.

M2.2 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

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frequency, specified opposite in the other columns:

M2.3 Air Monitoring Requirements

POINT 1,2,3,4

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

M3 Testing methods - concentration limits

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

- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

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

M4 Environmental monitoring

M4.1

Wind strength and wind direction at the premises must be measured and recorded in degrees and knots/kmh at least every 15 minutes.

M4.2

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

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;

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- 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 Soil Classification Records

The licensee must keep a record of each load of Soil, as referred to under Condition L3.1, 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 L3.1 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.

M7.2 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 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.

M7.3 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

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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.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- a Statement of Compliance; and
 - a Monitoring and Complaints Summary.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

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

- R1.3 Where this licence is transferred from the licensee to a new licensee:
- 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
 - 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:
- 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 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 Statement 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.

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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 the incident occurred.

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 2.3 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:

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

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

- a) the time and date when the fire was deliberately started or reported;
- b) whether the fire was authorised by the licensee, 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;
- 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

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b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- a) the cause, time and duration of the event;
- b) the type, volume and concentration of every pollutant discharged as a result of the event;
- c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

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 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

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protection licence for 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 APRA must be provided to the EPA by 31 May 2013. The financial assurance must be in favour of the EPA in the amount of two hundred thousand dollars (\$200,000).

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

(c) 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 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 being required by condition 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

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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,

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 ceases 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 premises, including conducting an assessment of and if required remediation of any site contamination.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Julie Currey

Environment Protection Authority

(By Delegation)

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End Notes

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|---|--------------------------|-------------------------------|
| 2 | Licence varied by notice | 1508582 issued on 21-Dec-2012 |
| 3 | Licence varied by notice | 1508582 issued on 21-Dec-2012 |
| 4 | Licence varied by notice | 1519395 issued on 05-Jun-2014 |
| 5 | Licence varied by notice | 1532263 issued on 24-Sep-2015 |