

Environment Protection Licence

Licence - 11436

Licence Details	
Number:	11436
Anniversary Date:	06-September

Licensee
VEOLIA ENVIRONMENTAL SERVICES (AUSTRALIA) PTY LTD
CNR UNWIN AND SHIRLEY STREETS
ROSEHILL NSW 2142

Premises
WOODLAWN LANDFILL
COLLECTOR ROAD
TARAGO NSW 2580

Scheduled Activity
Waste disposal (application to land)

Fee Based Activity	Scale
Waste disposal by application to land	Any capacity

Region
Waste & Resource Recovery
59-61 Goulburn Street
SYDNEY NSW 2000
Phone: (02) 9995 5000
Fax: (02) 9995 5999
PO Box A290
SYDNEY SOUTH NSW 1232

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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:

VEOLIA ENVIRONMENTAL SERVICES (AUSTRALIA) PTY LTD
CNR UNWIN AND SHIRLEY STREETS
ROSEHILL NSW 2142

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Waste disposal (application to land)	Waste disposal by application to land	Any capacity

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
WOODLAWN LANDFILL
COLLECTOR ROAD
TARAGO
NSW 2580
LOT 8 DP 534616, LOT 25 DP 754919, LOT 30 DP 754919, LOT 88 DP 754919, LOT 91 DP 754919, LOT 5 DP 830765
THE PREMISES IS DEFINED IN THE PLAN TITLED "ATTACHMENT 1 - WOODLAWN SITE EPL - MONITORING SITES - DRAWING NO: TOP-G-001", DRAWN BY DEAN OLIVER AND DATED 17 MARCH 2017. THE PLAN IS HELD BY THE EPA AS DOCUMENT DOC17/168187.

A3 Other activities

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

Ancillary Activity
Electricity Generating Works

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.

- A4.2 The Woodlawn Bioreactor Landfill Environmental Management Plan 2016 prepared by Veolia Environmental Services (Australia) Pty Ltd and including any future amendments, is not to be taken as part of the documentation in condition A4.1, other than those parts specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

- P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Subsurface Gas Monitoring		GMBH1, as described in Appendix C of the Gas Management Plan in Section 8.10 of the LEMP dated August 2004. E734682 N6117145
2	Subsurface Gas Monitoring		GMBH2, as described in Appendix C of the Gas Management Plan in Section 8.10 of the LEMP dated August 2004. E734825 N6117674
4	Subsurface Gas Monitoring		GMBH4, as described in Appendix C of the Gas Management Plan in Section 8.10 of the LEMP dated August 2004. E733786 N6116790
5	Landfill Gas Input Monitoring		Gas Extraction Booster for Landfill Gas Engine identified in Appendix C of the Gas Management Plan in Section 8.10 of the LEMP dated August 2004. E733786 N6116790
6	Surface Gas Monitoring		Locations across the surface of the landfilled waste (30m x 30m grid)
7	Air Discharge - Landfill Gas Flare	Air Discharge - Landfill Gas Flare	Landfill Gas Flare. E735012 N6117421
8	Air Discharge - Landfill Gas Engine	Air Discharge - Landfill Gas Engine	Landfill Gas Engine Exhaust Point. E735002 N6117378
9	Meteorological		Meteorological station located at the premises. E734922 N6117469

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10	Dust Monitoring	DG28 - Pylara, as shown on the map titled Mine Site Ambient Air Monitoring Locations Overall Site, Appendix A to the Ambient Air Quality Monitoring Plan in Section 8.13 of the LEMP dated July 2004. E737459 N6115805
11	Dust Monitoring	DG22 - immediately south of plant collection dam. E735256 N6117361
12	Dust Monitoring	DG34 as shown on the map titled Woodlawn Bioreactor Site Monitoring Locations prepared by LandTeam Australia Pty Ltd and dated 30/01/18 (EPA ref DOC18/89980). E732540 N6117162

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
13	Surface Water Monitoring		Site 115 - Allianoyonyige Creek, as shown on Drawing No. GO25/6/02 contained in the Surface Water Management Scheme in Section 8.6 of the LEMP dated August 2004. E731952 N6118394
14	Surface Water Monitoring		Spring 2 - Crisps Creek, as shown on Drawing No. GO25/6/02 contained in the Surface Water Management Scheme in Section 8.6 of the LEMP dated August 2004. E734806 N6118144
15	Surface Water Monitoring		Site 105 - Crisps Creek, as shown on Drawing No. GO25/6/02 contained in the Surface Water Management Scheme in Section 8.6 of the LEMP dated August 2004. E737459 N6115805
16	Surface Water Monitoring		Site WM200 - Raw Water Dam, as shown on Drawing No. GO25/6/02 contained in the Surface Water Management Scheme in Section 8.6 of the LEMP dated August 2004. E733593 N6117249

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17	Surface Water Monitoring and Discharge	Surface Water Monitoring and Discharge	Site WM201 - Existing Mine Buildings, as shown on Drawing No. GO25/6/02 contained in the Surface Water Management Scheme in Section 8.5 of the LEMP dated August 2004. E737459 N6115805
18	Surface Water and Volume Monitoring		ED3SS (Lagoon 5) as shown on Drawing No. 16800-180, Issue F, prepared by LandTeam Australia Pty Ltd and dated 21/7/16. E733651 N6117040
19	Surface Water and Volume Monitoring		ED3 North, as shown on Drawing No. 16800-180, Issue F, prepared by LandTeam Australia Pty Ltd and dated 21/7/16. E733627 N6117473
22	Surface Water Monitoring		Pond 5 as shown on the plan titled "Overall site plan - ponds, pumps and pipes layout", prepared by Jacobs Group (Australia) Pty Ltd dated 01/06/19 (EPA ref DOC19/2404). E734302 N6117163
23	Leachate Quality Monitoring		Leachate Pond, northwestern side of void - near top. E734189 N6117233
24	Leachate Quality Monitoring		Leachate Recirculation System (In Void). E734400 N6117233
25	Groundwater Monitoring		MB1 as shown on Drawing GO25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734474 N6117559
26	Groundwater Monitoring		MB2 as shown on Drawing GO25/5/01 Rev B in the Groundwater Management Program in Section 8.12 of the LEMP dated August 2004. E734332 N6118045
27	Groundwater Monitoring		MB3 as shown on Drawing No. GO25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734710 N6118632
28	Groundwater Monitoring		MB4 as shown on Drawing GO25/5/01 Rev B in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734968 N6116965
30	Groundwater Monitoring		MB6 as shown on Drawing No. GO25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E733864 N61170797

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31	Groundwater Monitoring	MB7 as shown on Drawing No. GO25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E733204 N6117328
33	Groundwater Monitoring	MB10 as shown on Drawing No. GO25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734028 N6118065
41	Groundwater Monitoring	ED3B as shown on Drawing No. GO 25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E733505 N6117045
42	Groundwater Monitoring	WM1 as shown on Drawing No. GO25/5/01 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E729012 N6115901
45	Groundwater Monitoring	WM5 as shown on Drawing No. GO25/5/1 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E727738 N6116221
46	Groundwater Monitoring	WM6 as shown on Drawing No. GO25/5/1 Rev B contained in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E733387 N6117459
48	Groundwater Monitoring	P38 as described in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734320 N6116639
49	Groundwater Monitoring	200A as shown on the plan titled Woodlawn Bioreactor Site Monitoring Locations prepared by LandTeam Australia dated 31/5/18 (DOC18/532776). E734656.3 N6116909.0
50	Groundwater Monitoring	200B as shown on the plan titled Woodlawn Bioreactor Site Monitoring Locations prepared by LandTeam Australia dated 31/5/18 (DOC18/532776). E734656.3 N6116909.0
51	Groundwater Monitoring	P58 as described in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734068 N6117037
52	Groundwater Monitoring	P59 as described in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734059 N6116941

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53	Groundwater Monitoring	P100 as described in the Groundwater Monitoring Program in Section 8.12 of the LEMP dated August 2004. E734284 N6117237
54	Surface Water and Volume Monitoring	ED3S as shown on Drawing No. 16800-180, Issue F, prepared by LandTeam Australia Pty Ltd and dated 21/7/16. E733654 N6117240
55	Groundwater Monitoring	Groundwater monitoring wells labelled as "MW8S" as referred to in Figure 1 Earth2Water Report on new groundwater well locations 15 November 2007. E733827 N6117392
56	Groundwater monitoring	Groundwater monitoring well labelled as "MW8D" in Figure 1 Earth2Water Report on new groundwater well locations 15 November 2007. E733829 N6117387
57	Groundwater Monitoring	Groundwater Monitoring well labelled as "MW9S" referred to in Figure 1 Earth2Water Report on new groundwater well locations 15 November 2007. E733632 N6117611
58	Groundwater Monitoring	Groundwater Monitoring Well labelled as "GW10"S as referred to in Figure 1 Earth2Water Report on new groundwater well locations 15 November 2007. E733919 N6117407
59	Surface water monitoring point	Evaporation Dam 1 (ED1) as shown on the plan titled "Attachment 1 - Woodlawn Site EPL Monitoring Sites - Drawing No TOP-G-001" prepared by Dean Oliver and dated 17 March 2017. The plan is held by the EPA as DOC17/168187.
60	Groundwater Monitoring	MB28 as shown on the plan titled "Woodlawn Bioreactor Site Monitoring Locations" prepared by LandTeam and dated 31 May 2018 (DOC18/637048). E734322.17 N6117778.21
61	Effluent from Leachate Treatment Plant	Discharge from Leachate Treatment Plant as shown on the plan titled "Plan Showing Leachate Monitoring Points" prepared by LandTeam and dated 23 July 2018 (DOC18/637048) E734210 N6117559

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62	Surface Water	ED1 coffer dam as shown on the plan titled "Plan Showing Leachate Monitoring Locations" prepared by LandTeam and dated 27 July 2018 (DOC18/637048). E734210 N 6117559
63	Groundwater Monitoring	SP2-MW1 as shown on the plan titled "Woodlawn Bioreactor site monitoring locations" prepared by LandTeam Australia Pty Ltd dated 13/3/19 (DOC19/257771) E734743 N6118122
64	Groundwater Monitoring	MW-FRC1 as shown on the plan titled "Woodlawn Bioreactor site monitoring locations" prepared by LandTeam Australia Pty Ltd dated 13/3/19 (DOC19/257771) E734528 N6118196
65	Groundwater Monitoring	MB10S as shown on the plan titled "Woodlawn Bioreactor site monitoring locations" prepared by LandTeam Australia Pty Ltd dated 13/3/19 (DOC19/257771) E734052 N6118048

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 There must be no pollution of surface water or groundwater.
- L1.3 There must be no discharge of waters from the premises unless more than 210 mm of rain falls within a 72 hour time period (1 in 100 year ARI of 72 hours duration).

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.

Note: No water pollutants relevant to the above condition.

L2.2 Air Concentration Limits

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POINT 8

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Hydrogen Sulfide	milligrams per cubic metre	5			
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	100			
Nitrogen Oxides	milligrams per cubic metre	450			

L2.3 This condition does not authorise the pollution of air by any pollutant other than those specified in the above tables.

L2.4 The reference bases for the air pollutants specified in condition L2.4 for Point 8 are as follows:
 a) For Nitrogen oxides (NO₂ and/or NO): dry, 273 K, 101.3 kPa, 7% O₂.
 b) For Sulphuric acid mist (H₂SO₄) and/or sulphur trioxide (SO₃): dry, 273 K, 101.3 kPa.

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

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

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

Code	Waste	Description	Activity	Other Limits
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, as enforced from time to time	Waste disposal (application to land)	NA
NA	General solid waste (putrescible)	As defined in Schedule 1 of the POEO Act, as enforced from time to time	Waste disposal (application to land)	NA
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, as enforced from time to time	Waste disposal (application to land)	NA
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, as enforced from time to time	Waste disposal (application to land)	NA

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- L3.2 The licensee may cause, permit or allow waste that is generated at the premises solely from activities relating the administration and operation of the Woodlawn Solid Waste Landfill to be disposed of at the premises provided the waste type is listed in the above table.
- L3.3 The licensee must not exceed the maximum annual landfill input rates outlined in the table below.

Putrescible waste received by rail from Sydney	Received as residual waste from Woodlawn AWT	Putrescible regional waste received by road
900,000 tonnes per annum	100,000 tonnes per annum	90,000 tonnes per annum

- L3.4 The licensee is permitted to dispose of waste containing immobilised contaminants if that waste has been classified as General Solid Waste (non-putrescible) in accordance with an immobilised contaminants approval issued by the EPA.

L4 Noise limits

- L4.1 Noise from the premises must not exceed 35 dB(A) LAeq (15 minute) at the most affected residential receiver.

Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

- L4.2 For the purpose of Condition L4.1:

a) The LAeq noise level must be measured or computed at the most affected residential receiver over a period of 15 minutes using “FAST” response on the sound level meter.

b) 5dB(A) must be added to the measured level if the noise is substantially tonal or impulsive in character.

c) Measurement locations are:

i) for night time (10 pm to 7 am) assessment - 1 metre from the façade of the residence; and

ii) for day time (7 am to 10 pm) assessment – at the residential boundary or 30 metres from the residence where the boundary is more than 30 metres from the residence.

d) The noise emission limits apply for prevailing meteorological and winds up to 3 metres per second, except under conditions of temperature inversions.

- L4.3 Where noise impacts are enhanced by temperature inversions, the licensee must identify any patterns of temperature inversions and the increased level of impacts, and develop and implement actions to quantify and ameliorate any enhanced impacts.

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L5 Hours of operation

- L5.1 All operational activities at the premises may only be conducted between 6:00 am to 10:00 pm on Mondays to Saturdays. There must be no activities on Sundays, Good Friday or Christmas Day.
- L5.2 Construction work carried out at the premises must only occur between 7:00am and 6:00pm on Mondays to Fridays and between 7am and 1pm on Saturdays. Construction work must not be conducted on Sundays or Public Holidays.
- L5.3 The times specified in condition L5.1 and L5.2 may be varied with the written consent of the EPA if the EPA is satisfied that the amenity of the residents in the locality will not be adversely affected.

L6 Potentially offensive odour

- L6.1 There must be no offensive odour emitted from the premises, in accordance with Section 129 of the Protection of the Environment Operations Act 1997, nor emissions to the atmosphere from the landfill that may adversely affect the health or amenity of the community.
- L6.2 No condition of this licence identifies a potentially offensive odour for the purposes of Section 129 of the Protection of the Environment Operations Act 1997.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

- O1.1 Licensed activities must be carried out in a competent manner.
This includes:
 - a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
 - a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.

O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise dust at the boundary of the premises.
- O3.2 All operations and activities occurring at the premises must be carried out in a manner that will minimise

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off-site impacts of total suspended particulates, lead and dust deposition.

- O3.3 Trucks which are entering and leaving the premises and carrying loads must be sealed or covered at all times, except during loading and unloading.
- O3.4 All internal roadways between the container transfer area and Collector Road must be sealed, except roadways within the mine void.
- O3.5 All surfaces intended to carry vehicular traffic must be managed to minimise the quantity of wind blown dust emissions.
- O3.6 All unsealed roads must be treated so that there are no visible dust emissions.

O4 Emergency response

- O4.1 The licensee must have in place and implement procedures to minimise the risk of fire at the premises.
- O4.2 The licensee must extinguish fires at the premises as soon as possible.
- O4.3 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 Water from the West Ridge Catchment, as shown on Figure GO25/6/02 contained in the Surface Water Management Scheme in Section 8.6 of the Landfill Environmental Management Plan dated August 2004, must not drain into the landfill void.
- O5.2 Stormwater in the landfill void must only be discharged into Evaporation Dam 3 or used for operational purposes within the landfill such as bioreactor water and dust suppression as approved in writing by the EPA.
- O5.3 Where contaminated water is used for dust suppression, it must only be applied in the landfill void, and in any areas around the perimeter of the void where contaminated water will drain back into the landfill void.
- O5.4 The evaporation of water by spraying must not result in the drifting of the sprayed liquid from the premises.
- O5.5 Untreated leachate must not be transferred to Evaporation Dam 3 unless approved in writing by the EPA.
- O5.6 Containers used for transporting waste must only be washed at the container wash facility as frequently

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as is necessary to minimise environmental impacts from the containers. The container wash down facility must be designed, installed and operated with the aim of collecting, treating and disposing of any wash down waters to the leachate collection system. Any collected solids must be returned to the active tipping face.

O6 Waste management

- O6.1 The last licensee must prepare and submit to the EPA within six 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.
- O6.2 The landfill void must be managed to ensure the groundwater gradient directs groundwater flows towards the landfill void.
- O6.3 A leachate collection/storage/recirculation/treatment system must be designed, installed and operated to:
- a) accept, in addition to leachate, other waste-waters and contaminated storm-waters allowed by this licence to be introduced into the waste;
 - b) efficiently operate, despite settlement of the waste;
 - c) ensure that liquid is not deliberately stored in the landfilled waste, unless it is necessary for the efficient decomposition of the landfilled waste;
 - d) ensure that leachate can be recirculated within the biologically active zones of the landfilled waste;
 - e) comply with condition O5.2; and
 - f) ensure to the maximum extent practicable the biological decomposition of all organic waste and productive capture of methane.
- O6.4 All dams used for the storage of treated leachate must be maintained with a minimum freeboard of 0.5m.
- O6.5 A barrier system must be installed for localised joints, fractures and rock debris within the landfill, in accordance with the specifications detailed in the letter from Coffey Geotechnics Pty Ltd to the Department of Planning, dated 6 September 2007, reference GEOTLCOV23353AA-AB (DECC reference DOC07/38671).
- Note: The licensee may propose an alternative barrier system for the different surfaces of the mine void that are required to be lined in accordance with condition O6.5. In order for the EPA to consider varying condition O6.5, the licensee must provide documented evidence that the proposed alternative barrier system is of at least equivalent performance to the barrier system specified in condition O6.5.
- O6.6 The licensee must install the barrier system referred to in O6.5 in accordance with the Construction Quality Assurance plan in Part 10 of the Barrier System and Quality Assurance Plan in Section 8.1 of the Landfill Environmental Management Plan, dated August 2004.
- O6.7 The licensee must not import water or other liquids into the landfill void, unless otherwise approved by the

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EPA, except for first flush waters collected at the Crisps Creek Intermodal Facility site (Environment Protection Licence No. 11455), container washdown waters, raw dam water, and sludge from the leachate treatment plant. The licensee may also import leachate and washdown water generated at the Clyde Intermodal Facility (Environment Protection Licence No. 11763) and Banksmeadow Transfer Terminal (Environment Protection Licence No. 20581) from the compaction and loading of waste into rail containers that are subsequently transported to the Woodlawn Landfill. The leachate and washdown water generated at the Clyde Intermodal Facility and Banksmeadow Intermodal Facility must be able to be classified as Liquid Waste.

O6.8 Cover material must be virgin excavated natural material, unless otherwise approved in writing by the EPA.

Note: The licensee is encouraged to identify alternative daily cover materials and examine the feasibility of adopting such materials so as to minimise impacts of utilising virgin excavated natural material.

O6.9 Cover material must be of a quality that will not inhibit the biological decomposition of the landfilled waste.

O6.10 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, unless otherwise approved in writing by the EPA.

Note: This condition does not exclude removal of daily cover at the beginning of each day to provide for the efficient operation of the bioreactor and to avoid perching of leachate within the landfilled waste mass.

O6.11 Cover material must be applied to a depth of 30 centimetres over surfaces of the landfilled waste which have had 15 centimetres of cover material for more than 90 days, unless otherwise approved in writing by the EPA.

Note: This condition does not exclude removal of cover prior to recommencement of active landfilling to provide for the efficient operation of the bioreactor and to avoid perching of leachate within the landfilled waste mass.

O6.12 At least two weeks supply of cover material must be available at the premises under all weather conditions, unless otherwise approved in writing by the EPA.

O6.13 The licensee must have in place and implement procedures to identify and prevent the disposal of any waste not permitted by this licence to be disposed of at the premises.

O6.14 Final capping must comprise five layers in the order of installation: a seal bearing surface, a gas drainage layer, a sealing layer, an infiltration layer and the revegetation layer as specified in the Post Closure Landfill Rehabilitation Management Plan in Section 8.9 of the Landfill Environmental Management Plan dated August 2004.

O6.15 The licensee shall ensure that as much landfill gas as is practicable is collected and treated by flaring or beneficially used in the landfill gas fired power station.

O6.16 The flare system must provide a destruction efficiency of volatile organic compounds, air toxics and odours of not less than 98%. The flare must be at ground-level and shrouded. The flare must be provided with automatic combustion air control, automatic shut-off gas valve and automatic re-start system.

Note: The following combinations of minimum performance specifications will be deemed to have

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achieved a destruction efficiency of 98 per cent. Alternative minimum performance specifications must be justified by the licensee.

Temperature (K)	Residence time (seconds)	Reference
1273 (1000°C)	0.3	UK Environment Agency Guidance on Landfill Gas Flaring (version 2.1)
933 (760°C)	0.6	US South Coast Air Quality Management District's Best Available Control Technology Guidelines (Landfill Gas Flare 17 August 2001)

O6.17 The landfill gas fired power station must provide a minimum destruction efficiency of 98% for volatile organic compounds, air toxics and odours, and the discharge point(s) must be designed (ie. Stack height, diameter, discharge velocity etc.) to ensure that the design ground-level concentration criteria specified in the following tables are not exceeded at any location at or beyond the boundary of the premises.

Pollutant	Design Ground-Level Concentration Criteria (µg/m ³)	Averaging Time	Percentile
Sulfuric acid	33	3 minute	99.9
Sulfur dioxide	571	1 hour	99.9
Nitrogen dioxide	246	1 hour	99.9
Hydrogen sulfide	See following table	Nose response time	99

Note: The hydrogen sulphide glc criteria shall be applied at the nearest existing or likely future off-site sensitive receptor.

Population of affected community	glc criterion (µg/m ³)	Averaging Time	Percentile
Urban (>~2000)	1.38	Nose response time	99
~500	2.07	Nose response time	99
~125	2.76	Nose response time	99
~30	3.45	Nose response time	99
~10	4.14	Nose response time	99
Single residence (<~2)	4.83	Nose response time	99

O6.18 Prior to installation, the licensee must provide manufacturer's performance guarantees for all plant and equipment, demonstrating to the satisfaction of the EPA that emissions of air pollutants from the flare and landfill gas fired power station will comply with the Protection of the Environment Operations (Clean Air) Regulation 2002 and with the design parameters specified in conditions O5.16 and O5.17. In addition, prior to installation of the landfill gas fired power station, the licensee must carry out dispersion modelling and prepare a report to the satisfaction of the EPA that demonstrates that the stack diameters and heights of the discharge points have been designed in an acceptable manner.

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- O6.19 Any landfill gas condensate must be collected and returned to the leachate recycling system.
- O6.20 The landfill gas extraction and utilisation system must be designed and installed to withstand forces created by the weight and settlement of waste in the landfill.
- O6.21 All pipework carrying landfill gas adjacent to the haul road must be designed and installed so it is protected from damage as a result of haulage activities.
- O6.22 The licensee must apply biofiltration media, or another material as approved in writing by the EPA, at the waste/rock interface around the perimeter of the landfill void to reduce odour from fugitive gas emissions.
- O6.23 The licensee must not exhume any landfilled waste unless approved in writing by the EPA.
- O6.24 Vehicles leaving the premises must not track materials to external surfaces.
- O6.25 The licensee must provide a report to the EPA which details the design, construction, operation and rehabilitation of any new landfill cell. This report must be submitted to the EPA at least six months before the licensee intends to construct the cell, and it must include details on a QA/QC program which can demonstrate that the cell was constructed to meet its design specifications.
- O6.26 The licensee must take all practical measures to prevent litter leaving the premises.
- O6.27 Treated leachate from the Leachate Treatment Plant (LTP) must not be discharged to any part of ED1, other than the lined coffer dam.
- O6.28 Effluent from the activated sludge leachate treatment system must not be discharged to the ED1 coffer dam.
- O6.29 ED3N must be emptied of effluent from the activated sludge leachate treatment system by 31 December 2023.

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;

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- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 1,2,4

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

POINT 5

Pollutant	Units of measure	Frequency	Sampling Method
Carbon dioxide	percent	Yearly	TM-24
Dry gas density	milligrams per cubic metre	Yearly	TM-23
Moisture content	percent	Yearly	TM-22
Oxygen (O ₂)	percent	Yearly	TM-2
Temperature	degrees Celsius	Yearly	TM-2
Volatile organic compounds	milligrams per cubic metre	Yearly	TM-34
Volumetric flowrate	cubic metres per second	Yearly	TM-2

POINT 6

Pollutant	Units of measure	Frequency	Sampling Method
Methane	percent by volume	Quarterly	Special Method 2

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
residence time	seconds	Continuous	In line instrumentation
Temperature	degrees Celsius	Yearly	TM-2

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POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
Carbon dioxide	percent	Yearly	TM-24
Carbon monoxide	milligrams per cubic metre	Yearly	TM-32
Dry gas density	milligrams per cubic metre	Yearly	TM-23
Moisture content	percent	Yearly	TM-22
Molecular weight of stack gases	grams per gram mole	Yearly	TM-23
Nitrogen Oxides	milligrams per cubic metre	Yearly	TM-11
Oxygen (O ₂)	percent	Yearly	TM-25
Sulfuric acid mist and sulfur trioxide (as SO ₃)	milligrams per cubic metre	Yearly	TM-3
Sulphur dioxide	milligrams per cubic metre	Yearly	TM-4
Temperature	degrees Celsius	Yearly	TM-2
Velocity	metres per second	Yearly	TM-2
Volatile organic compounds	milligrams per cubic metre	Yearly	TM-34
Volumetric flowrate	cubic metres per second	Yearly	TM-2

POINT 10,11,12

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

M2.3 Water and/ or Land Monitoring Requirements**POINT 13,14,15,16,17,18,19,22,54,59**

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	Probe
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
pH	milligrams per litre	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Redox potential	millivolts	Quarterly	Grab sample

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Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample

POINT 23,24

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Yearly	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	Yearly	Grab sample
Chloride	milligrams per litre	Yearly	Grab sample
Chromium (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Conductivity	microsiemens per centimetre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Yearly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Yearly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Yearly	Grab sample
Phosphorus (total)	milligrams per litre	Yearly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Yearly	Grab sample
Sodium	milligrams per litre	Yearly	Grab sample
Sulfate	milligrams per litre	Yearly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample
Total dissolved solids	milligrams per litre	Yearly	Grab sample
Total organic carbon	milligrams per litre	Yearly	Grab sample

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Total petroleum hydrocarbons	milligrams per litre	Yearly	Grab sample
Total Phenolics	milligrams per litre	Yearly	Grab sample
Total suspended solids	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 25,26,27,28,30,31,33,41,42,45,46,55,56,57,58,60

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 (hexavalent)	milligrams per litre	Yearly	Grab sample
Chromium (total)	milligrams per litre	Yearly	Grab sample
Cobalt	milligrams per litre	Yearly	Grab sample
Copper	milligrams per litre	Yearly	Grab sample
Ethyl benzene	milligrams per litre	Yearly	Grab sample
Fluoride	milligrams per litre	Yearly	Grab sample
Lead	milligrams per litre	Yearly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Yearly	Grab sample
Mercury	milligrams per litre	Yearly	Grab sample
Nitrate	milligrams per litre	Yearly	Grab sample
Nitrite	milligrams per litre	Yearly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Yearly	Grab sample
Organophosphate pesticides	milligrams per litre	Yearly	Grab sample
pH	pH	Quarterly	Grab sample
Polycyclic aromatic hydrocarbons	milligrams per litre	Yearly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Toluene	milligrams per litre	Yearly	Grab sample

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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 Phenolics	milligrams per litre	Yearly	Grab sample
Xylene	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Yearly	Grab sample

POINT 48,49,50,51,52,53

Pollutant	Units of measure	Frequency	Sampling Method
Standing Water Level	metres	Quarterly	In situ

POINT 61

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Weekly	Grab sample
BOD	milligrams per litre	Weekly	Grab sample
Chemical oxygen demand	milligrams per litre	Weekly	Grab sample
Chloride	milligrams per litre	Weekly	Grab sample
Electrical conductivity	microsiemens per centimetre	Weekly	Grab sample
Nitrate	milligrams per litre	Weekly	Grab sample
pH	pH	Weekly	Grab sample
Phosphorus (total)	milligrams per litre	Weekly	Grab sample
Total dissolved solids	milligrams per litre	Weekly	Grab sample
TSS	milligrams per litre	Weekly	Grab sample

POINT 62

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Monthly	Grab sample
BOD	milligrams per litre	Monthly	Grab sample
Chemical oxygen demand	milligrams per litre	Monthly	Grab sample
Chloride	milligrams per litre	Monthly	Grab sample
Electrical conductivity	microsiemens per centimetre	Monthly	Grab sample
Nitrate	milligrams per litre	Monthly	Grab sample
pH	pH	Monthly	Grab sample
Phosphorus (total)	milligrams per litre	Monthly	Grab sample
Total dissolved solids	milligrams per litre	Monthly	Grab sample
TSS	milligrams per litre	Monthly	Grab sample

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POINT 63,64,65

Pollutant	Units of measure	Frequency	Sampling Method
Cadmium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Copper	milligrams per litre	Quarterly	Grab sample
Electrical conductivity	microsiemens per centimetre	Quarterly	Grab sample
Lead	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Standing Water Level	metres	Quarterly	In situ
Sulfate	milligrams per litre	Quarterly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Zinc	milligrams per litre	Quarterly	Grab sample

Note: "Special Method 1" means methane monitoring must be performed on the gas within the landfill subsurface monitoring well before any admixture or purging of air into that well. The gas detector must:

- have a current calibration certificate
- a minimum level of detection and minimum resolution of 1% (v/v) methane
- be capable of accurately measuring methane in a reduced oxygen atmosphere
- be tested with an in-date calibration gas before and after the testing to ensure that all sensors are functional and accurate.

Subsurface gas monitoring must be performed following the procedures in benchmark techniques 15 and 16 in the EPA's Environmental Guidelines: Solid Waste Landfills.

Note: "Special Method 2" means methane monitoring must be performed on the gas at the landfill's surface following the procedures in benchmark technique 17 in the EPA's Environmental Guidelines: Solid Waste Landfills. The gas detector must:

- have a current calibration certificate
- a minimum level of detection and minimum resolution of 0.05% (v/v) methane
- be tested with an in-date calibration gas before and after the testing to ensure that all sensors are functional and accurate.

M3 Testing methods - concentration limits

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

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

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place.

M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

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

M4 Weather monitoring

M4.1 The licensee must undertake the following monitoring of meteorological parameters in accordance with the methods and frequencies specified in the table below.

Note: All meteorological monitoring done from EPA Point 9.

Parameter	Units of Measure	Averaging Period	Method	Frequency
Wind Speed @ 10m	m/s	1 hour	AM-2 & AM-4	Continuous
Wind Direction @ 10m	°	1 hour	AM-2 & AM-4	Continuous
Sigma Theta @ 10m	°	1 hour	AM-2 & AM-4	Continuous
Temperature @ 10m	K	1 hour	AM-4	Continuous
Temperature @ 2m	K	1 hour	AM-4	Continuous
Solar Radiation	W/m ²	1 hour	AM-4	Continuous
Rainfall	mm	24 hours	AM-4	Continuous

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:

- the date and time of the complaint;
- the method by which the complaint was made;
- any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- the nature of the complaint;
- the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and

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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.

Note: For the purpose of condition M6.1, operating hours are defined as 24 hours a day, 7 days a week.

M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Requirement to monitor volume or mass

M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:

- a) the volume of liquids discharged to water or applied to the area;
 - b) the mass of solids applied to the area;
 - c) the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 18,19,54,62

Frequency	Unit of Measure	Sampling Method
Quarterly	megalitres	Other Approved Method 1

Note: Other Approved Method 1 is by inspection of a calibrated marker post or through survey of water level.

M8 Other monitoring and recording conditions

M8.1 The licensee must maintain a log of the run-times of all mechanical evaporators used at the premises. The log must identify the dam on which the evaporator was used, the start and finish time of the run, and the volume of liquid pumped through the evaporator during each run.

6 Reporting Conditions

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R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

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

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

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

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

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

R1.8 The Annual Return must be accompanied by / or include an Annual Report which must contain an assessment of environmental performance relevant to licence conditions including:

- a) tabulated results of all monitoring data required to be collected by this licence;
- b) a graphical presentation of data from at least the last three years (if available) in order to show variability and / or trends. Any statistically significant variations or anomalies should be highlighted and

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explained;

c) an analysis and interpretation of all monitoring data;

d) an analysis of and response to any complaints received;

e) identification of any deficiencies in environmental performance identified by the monitoring data, trends or incidents and of remedial action taken or proposed to be taken to address these deficiencies; and

f) recommendations on improving the environmental performance of the facility.

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.

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

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.3 The licensee must notify the EPA within 24 hours if the subsurface gas monitoring required by condition M2.1 indicates a methane gas concentration greater than 1% (v/v).

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;

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- 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.

R3.5 Whenever the height of the saturation level in the waste is above the height of the groundwater table that surrounds the perimeter of the mine void, the licensee must provide a written report to the EPA within 3 months.

R3.6 The report must contain the following information:

- a) the height of the saturation level of the leachate in the mine void and the height of the groundwater at the perimeter of the mine void; and
- b) a program of actions to reduce the height of leachate in the mine void and the expected time duration for the actions and works.

R4 Other reporting conditions

R4.1 Whenever the volume of water stored in Evaporation Dam 3 reaches the freeboard level in condition O6.4, the licensee must notify the EPA in accordance with the requirements of R2 and provide a written report to the EPA within 1 month. The report must contain the following information:

- a) the volume of water stored in Evaporation Dam 3; and
- b) a program of actions to reduce volume of water stored in Evaporation Dam 3 below the 0.5m freeboard level and/or a program for the design and construction of works to increase the capacity of Evaporation Dam 3 to maintain the freeboard to contain the rainfall from a 1:100 year ARI storm of 72 hours duration, and the expected time duration for the actions and works.

R4.2 Within 24 hours of receipt of an odour complaint, the Licensee must provide the EPA with a written report. The report must include the following information:

- a) The date, time and duration of the odour incident;
- b) A description of the nature of the odour;
- c) The meteorological conditions prevailing at the same time the odour was reported;
- d) The location(s) of the place where the odour was detected;
- e) The circumstances in which the odour incident occurred (including the cause of the odour, if known);
- f) Time and date stamped photographs of the active landfill cell showing intermediate and daily cover;
- g) The action taken or proposed to be taken to deal with the incident, including follow-up contact with any complainants;
- h) Details of any measures taken or proposed to be taken to prevent or mitigate against a recurrence of such an incident;
- i) The current level of leachate in each pond; and
- j) A log of the run times of all mechanical evaporators used at the premises in the 6 hours preceding the

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odour complaint.

7 General Conditions

G1 Copy of licence kept at the premises or plant

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

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 Longterm Leachate Treatment Solution

U1.1 By 30 September 2018, the licensee must install, commission and implement the longterm leachate management solution detailed in the report titled "Longterm Leachate Treatment Solution Submission Report" submitted to the EPA on 5 August 2016 (as revised).

U1.2 The membrane bioreactor (MBR) leachate treatment plant component of the longterm leachate management solution must be capable of continuously treating at least 4L/s of leachate.

Note: The longterm leachate treatment solution will require a modification to the premises' Development Approval.

U1.3 Unless otherwise agreed to in writing by the EPA, the licensee must submit a monthly report detailing progress on the commissioning and process optimisation of the Leachate Treatment Plant (LTP). The report must include, but not necessarily be limited to, the following:

1. a brief narrative on the progress of the LTP commissioning and optimisation process;
2. Leachate extraction rate from the void;
3. quality of the input feed into the LTP;
4. discharge quality from the LTP;
5. graphical representation of monitoring data captured in the last month;
6. performance of the LTP during the last month; and
7. a description of any anticipated or actual risks to the operations of the LTP and the measures being implemented to mitigate those risks.

The report must be submitted electronically on the fifth business day of the month for the previous month's activities.

U2 Management Plan - Evaporation Dam Seepage

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- U2.1 By 30 September 2018, the licensee must submit a management plan to the EPA detailing the control and remediation measures proposed to be implemented to prevent the occurrence of seepage from ED1 and ED2 and repair or make good any groundwater or surface water pollution that has occurred.

The plan must:

- (a) make reference to the findings in the report titled "Woodlawn Evaporation dams ED1 & ED2 - Ecological Risk Assessment" prepared by Niche Environment and Heritage on 20 June, 2018; and
 (b) include a work program outlining key dates for the implementation of proposed control and remediation measures.

9 Special Conditions

E1 Financial assurance

- E1.1 A financial assurance comprising an unconditional and irrevocable bank guarantee in favour of the EPA, in the amount of five million three hundred and eighty thousand dollars (\$5,380,000), must be provided to the EPA. This financial assurance is required for the works and programs required by or under this licence.
- E1.2 The original bank guarantee must be provided to the EPA and be in a form approved by the EPA.
- E1.3 The Financial Assurance must contain a term that provides that any money claimed can be paid to the EPA or, at the written direction of the EPA, to any other person.
- E1.4 This financial assurance shall be adjusted each financial year in the following manner:
- a) the amount of the bank guarantee shall be increased by an amount equal to two hundred and twenty five thousand seven hundred and ninety dollars (\$225,790) adjusted by a percentage equal to the percentage increase in the Consumer Price Index between the June quarter of 2004 and the June quarter of the current year, plus
- b) an amount equal to that needed to increase the previous year's financial assurance by a percentage equal to the percentage increase in the Consumer Price Index between the June quarter of the preceding year and the June quarter of the current year.
- E1.5 The licensee must:
- a) ensure the bank guarantee is adjusted as required under E1.4, and
 b) provide the adjusted bank guarantee to the EPA by the Licence Anniversary Date each year.
- E1.6 The licensee must maintain the financial assurance at the full amount as adjusted under E1.4 during the operation of the facility and thereafter until such time as the EPA is satisfied the premises are environmentally secure.
- E1.7 The licensee must replenish the financial assurance to the full amount as adjusted under E1.4 if the EPA claims on or realises the financial assurance or any part of it to carry out or have carried out any work or program covered by the financial assurance if the licensee fails to carry out that work or program upon

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being given notice to do so.

E1.8 The EPA may increase the amount of the financial assurance at any time as a result of a revised estimate of the total likely costs and expenses of remediation of the premises.

E1.9 The financial assurance adjustment required in Condition E1.4 requires the calculation of two amounts which need to be added to the financial assurance of the previous year to arrive at the amount for the financial assurance for the current year to be submitted by the licensee:

Condition E1.4 (a) = $\$225,790 \times A/B$, where;

A = the CPI Index Number (A) figure published by the Australian Bureau of Statistics for Sydney for the June quarter of the current calendar year, and

B = the CPI Index Number (A) figure published by the Australian Bureau of Statistics for Sydney for the June quarter of 2004. This CPI Index Number is 145.5.

Condition E1.4 (b) = $(FA \times A/C) - FA$, where;

A = the CPI Index Number (A) figure published by the Australian Bureau of Statistics for Sydney for the June quarter of the current calendar year,

C = the CPI Index Number (A) figure published by the Australian Bureau of Statistics for Sydney for the June quarter of the previous calendar year, and

FA = the total financial assurance amount for the previous year.

The total amount of the financial assurance to be submitted to the EPA for the current year is:

$FA_{\text{new}} = FA + \text{Condition E1.4 (a)} + \text{Condition E1.4 (b)}$, where;

FA_{new} = the total financial assurance amount for the current year

CPI means the Consumer Price Index Number (A) for Sydney (All Groups) published by the Australian Bureau of Statistics.

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Dictionary

General Dictionary

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

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

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

Mr William Dove

Environment Protection Authority

(By Delegation)

Date of this edition: 05-September-2002

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End Notes

- 1 Licence varied by notice 1036988, issued on 27-Jul-2004, which came into effect on 02-Aug-2004.
- 2 Licence varied by notice 1039740, issued on 12-Aug-2004, which came into effect on 20-Aug-2004.
- 3 Licence varied by change to record due to LGA amalgamation, issued on 01-Dec-2004, which came into effect on 01-Dec-2004.
- 4 Licence varied by notice 1051064, issued on 06-Jan-2006, which came into effect on 31-Jan-2006.
- 5 Licence varied by change to DEC Region allocation, issued on 02-Mar-2006, which came into effect on 02-Mar-2006.
- 6 Licence varied by notice 1063344, issued on 26-Jul-2006, which came into effect on 26-Jul-2006.
- 7 Licence varied by notice 1075615, issued on 14-Aug-2007, which came into effect on 14-Aug-2007.
- 8 Licence varied by notice 1077947, issued on 19-Feb-2008, which came into effect on 19-Feb-2008.
- 9 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 10 Licence varied by notice 1092825, issued on 01-Jun-2009, which came into effect on 01-Jun-2009.
- 11 Licence varied by notice 1506311 issued on 01-May-2013
- 12 Licence varied by notice 1533738 issued on 08-Jul-2016
- 13 Licence varied by notice 1544465 issued on 14-Oct-2016
- 14 Licence varied by notice 1550304 issued on 29-Mar-2017
- 15 Licence varied by notice 1558536 issued on 08-Nov-2017
- 16 Licence varied by notice 1562544 issued on 22-Aug-2018
- 17 Licence varied by notice 1569402 issued on 19-Sep-2018
- 18 Licence varied by notice 1576804 issued on 06-May-2019