

Environment Protection Licence



Licence - 5921

Licence Details

Number:	5921
Anniversary Date:	25-September

Licensee

TAMWORTH REGIONAL COUNCIL

PO BOX 555

TAMWORTH NSW 2340

Premises

FOREST ROAD LANDFILL

FOREST ROAD

TAMWORTH NSW 2340

Scheduled Activity

Composting

Waste Disposal (application to land)

Waste Processing (non-thermal treatment)

Waste Storage

Fee Based Activity

Scale

Composting	> 5000-50000 T of organics received
Non-thermal treatment of general waste	Any T treated
Waste disposal by application to land	Any annual capacity
Waste storage - other types of waste	> 0 T stored
Waste storage - waste tyres	> 0 T stored

Region

North - Armidale

Ground Floor, NSW Govt Offices, 85 Faulkner Street

ARMIDALE NSW 2350

Phone: (02) 6773 7000

Fax: (02) 6772 2336

PO Box 494 ARMIDALE

NSW 2350

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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:

TAMWORTH REGIONAL COUNCIL
PO BOX 555
TAMWORTH NSW 2340

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
Composting	Composting	> 5000 - 50000 T of organics received
Waste Processing (non-thermal treatment)	Non-thermal treatment of general waste	Any T treated
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
Waste Storage	Waste storage - waste tyres	> 0 T stored

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
FOREST ROAD LANDFILL
FOREST ROAD
TAMWORTH
NSW 2340
LOT 2 DP 544594, LOT 375 DP 753848, LOT 376 DP 753848, LOT 377 DP 753848, LOT 388 DP 753848, LOT 1 DP 876543

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

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

- 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
- the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 The Landfill Environmental Management Plan - Forest Road Landfill, May 1998, by Peter Resch is not to

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be taken as part of the documentation in 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.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
13	Air emissions monitoring		Surface gas monitoring over old landfill areas within area encompassed by Landfill Boudaries marked on Tamworth City Council Drawing No. 11089, 'Detail and Contour Survey', dated 15/08/2001
14	Air emissions monitoring		Building gas accumulation monitoring in the weighbridge building and recycling centre named 'Yacannabuybeta' on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
15	Air emissions monitoring		Subsurface gas monitoring labelled as Monitoring Point G 8 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
16	Air emissions monitoring		Subsurface gas monitoring labelled as Monitoring Point G 9 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).

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
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1	Surface water quality monitoring/Wet weather discharge	Surface water quality monitoring/Wet weather discharge	Surface water dam overflow point adjacent to Forest Rd & landfill access road intersection shown as Monitoring Point SW 1 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
2	Surface water quality monitoring		Surface water dam shown as Monitoring Point SW 2 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
3	Instream water quality monitoring		Spring Creek above overflow from surface water dam shown as Monitoring Point SW 3 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
4	Instream water quality monitoring		Spring Creek below overflow from surface water dam shown as Monitoring Point SW 4 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
5	Leachate quality monitoring		Northern leachate pond shown as Monitoring Point L 5 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
6	Leachate quality monitoring		Southern leachate pond shown as Monitoring Point L 6 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
7	Leachate quality monitoring/Wet weather discharge	Leachate quality monitoring/Wet weather discharge	Southern leachate retention pond overflow shown as Monitoring Point L 7 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
8	Groundwater quality monitoring		Groundwater monitoring point shown as Monitoring Point GW 17 (above Monitoring Point G 8) on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
9	Groundwater quality monitoring		Groundwater monitoring point shown as Monitoring Point GW 10 (below Monitoring Point G 9) on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).

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17	Leachate quality monitoring	Spillway of leachate pond marked as "1" on map titled 'Erosion and Sedimentation Control Plan' submitted by fax to the EPA on 10 June 2005 on file 251052A1/03
18	Groundwater quality monitoring	Groundwater monitoring point shown as Monitoring Point GW 14 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
19	Groundwater quality monitoring	Groundwater monitoring point shown as Monitoring Point GW 15 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).
20	Groundwater quality monitoring	Groundwater monitoring point shown as Monitoring Point GW 16 on Tamworth City Council Drawing No. 11162, Details of Monitoring Points, dated 15/08/01 (DOC15/37598).

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 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

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POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Total suspended solids	milligrams per litre				50

L2.5 Exceedances of the concentration limits for TSS in condition L2.4 are permitted at the following points for the duration of the overflow:

L2.6 Whenever a wet weather overflow is occurring due to stormwater events greater than or equal to 1 in 25 year 24 hour duration storm event, leachate is permitted to be discharged at the following points for the duration of the overflow: Point 1 and Point 7.

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	Waste tyres	As defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time.	Waste storage	The total quantity of waste tyres stored at the premises must not exceed 50 tonnes or 5000 waste tyres at any one time
NA	General solid waste (putrescible)	As defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time.	Waste disposal (application to land)	NA
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time.	Waste disposal (application to land)	NA

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NA	Asbestos waste	As defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time.	Waste disposal (application to land)	NA
NA	Certain liquid wastes	Liquid waste as defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time. The liquid wastes that may be disposed of at the premises in accordance with the procedures defined in the current Landfill Environmental Management Plan (as approved by the DECC from time to time) are limited to septic tank pump-out waste, grease trap pump-out waste, garbage bin wash-out waste or other chemically similar liquid wastes	Waste processing (non-thermal treatment)	NA
NA	Certain organics	Organics as defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time. The organics that may be accepted at the premises for composting are limited to garden waste (as defined in Schedule 1 of the Protection of the Environment Operations Act 1997, as in force from time to time) and paunch material generated by livestock processing activities.	Composting	NA
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time.	-	NA

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L3.2 The total tonnage of waste defined in the above condition disposed of at the premises must not exceed 60,000 tonnes in any reporting period.

Note: Disposal of asbestos must be in accordance with Clause 42 of the Protection of the Environment Operations (Waste) Regulation 2005.

L3.3 Tyres stockpiled on the premises must:
a) not exceed fifty (50) tonnes of tyres at any one time; and
b) be located in a clearly defined area away from the tipping face; and
c) be managed to control vermin; and
d) be managed to prevent any tyres from catching fire.

L3.4 Copper-Chrome-Arsenate (CCA) treated timber waste may be disposed of at the landfill subject to the requirements of the relevant current general immobilisation approval.

L4 Noise limits

L4.1 Noise from Lot 1 DP 876543 must not exceed:

- (a) 40dB(A) LAeq (15 minute) during the day (7am to 6pm) Monday to Friday and 7am to 1pm Saturday; and
- (b) 35dB(A) LAeq (15 minute) during the evening (6pm to 10pm) Monday to Friday; and
- (c) at all other times 35dB(A) LAeq (15 minute), except as expressly provided by this licence.

L4.2 Noise from the remainder of the premises must not exceed:

- (a) 55dB(A) LAeq (15 minute) during the day (7am to 6pm) Monday to Friday and 7am to 1pm Saturday; and
- (b) 45dB(A) LAeq (15 minute) during the evening (6pm to 10pm) Monday to Friday; and
- (c) at all other times 40dB(A) LAeq (15 minute), except as expressly provided by this licence.

L4.3 Noise from the premises is to be measured at any sensitive receptor to determine compliance with this condition.

L4.4 Notes: LAeq (15 minute) means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over the measurement period (i.e. 15 minutes).

For the purpose of noise measures required for this condition, the LAeq noise level must be measured or computed at any point within 30 metres of any sensitive receptor not on the premises over a period of 15 minutes using "FAST" response on the sound level metre.

L5 Hours of operation

L5.1 All work at the premises must be conducted between the following hours:

6am to 6pm Mondays to Fridays, 8am to 6.30pm Saturdays, Sundays and Public Holidays.

L5.2 Work may occur at the premises outside the hours of operation defined above in special circumstances or

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in the case of an emergency where prior written approval has been provided by the EPA.

L6 Potentially offensive odour

L6.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

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

O3 Dust

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

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.

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O5 Processes and management

- O5.1 The dams used for the impoundment of leachate must be maintained to ensure that their design capacity is available for the storage of leachate.
- O5.2 A leachate barrier system approved by the EPA and leachate collection system approved by the EPA must be installed on each surface within the premises to be used for the disposal of waste. This condition does not apply to areas used for the emplacement of waste before 25 September 2000. The proposed design of the leachate barrier system and leachate collection system along with a quality assurance program which demonstrates that they will be constructed to achieve their design objectives, must be submitted to the EPA for review at least 3 months prior to the proposed installation.

O6 Waste management

- O6.1 The licensee must submit to the EPA within three months prior to the last load of waste being landfilled a closure plan in accordance with Section 76 of the Protection of the Environment Operations Act 1997.
- O6.2 The leachate barrier system must be installed above the groundwater table.
- O6.3 Surface drainage must be diverted away from any area where waste is being or has been landfilled.
- O6.4 There must be no incineration or burning of any waste at the premises.
- O6.5 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.
- O6.6 The licensee must ensure that the achieved compaction rate of landfilled waste (excluding cover material) is stated in the annual report for the waste premises submitted to the EPA.
- O6.7 The licensee must ensure that the landfill cells are capped progressively and in accordance with condition O16.5 during operations and specifically at times when the level of waste reaches final heights as approved by the EPA.
- O6.8 Cover material must be specified by the landfill occupier, provided they can demonstrate compliance with performance goals.
- a) Daily cover
Cover material must be applied to a minimum depth of 15 centimetres over all exposed landfilled waste prior to ceasing operations at the end of each day.
 - b) Intermediate cover
Cover material must be 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.
- O6.9 Surface drainage from the hardstand area of the small vehicle transfer station must be diverted away from any area where waste is being or has been deposited.

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- O6.10 The perimeter of the areas where waste has been landfilled must be contoured to prevent stormwater running onto these surfaces from all storm events less than or equal to a 1 in 20 year 24 hour duration storm event .
- O6.11 The licensee must submit a proposed quality assurance program for any leachate collection system, leachate barrier system or landfill capping system, for approval by the EPA no less than 60 days prior to the commencement of works.
- O6.12 The licensee must implement the litter management program specified in in the current Landfill Environmental Management Plan (as approved by the EPA from time to time).
- O6.13 The licensee must ensure that adequately trained staff and/or contractors are available at the premises in order to administer the requirements of this licence.
- O6.14 The licensee may store in an appropriate facility, at any one time, no more than 2 tonnes of Hazardous Chemical substances provided that:
- a) the chemicals are stored within a defined and secure area which is appropriately signposted; AND
 - b) the facility is self contained and bunded, with a bund capacity of 25% by volume of the total intended capacity of the facility; AND
 - c) Up to date logs of all chemicals contained are kept at the facility.
- O6.15 Final capping must comprise design parameters: as specified in the Environmental Guidelines: Solid Waste Landfills NSW EPA, 1996, or design parameters approved by the EPA prior to the capping taking place.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;
 - c) the point at which the sample was taken; and
 - d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee

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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 13,14,15,16

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

M2.3 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 1	Grab sample
BOD	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Fluoride	milligrams per litre	Special Frequency 1	Grab sample
Iron	milligrams per litre	Special Frequency 1	Grab sample
Magnesium	milligrams per litre	Special Frequency 1	Grab sample
Manganese	milligrams per litre	Special Frequency 1	Grab sample
Nitrate	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
Oil and Grease	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	In situ
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total Phenolics	micrograms per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Volumetric flowrate	kilolitres per day	Special Frequency 1	Estimate

POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
BOD	milligrams per litre	Quarterly	Grab sample

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Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrite	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Oil and Grease	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	In situ
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total Phenolics	micrograms per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

POINT 3,4

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 1	Grab sample
BOD	milligrams per litre	Special Frequency 1	Grab sample
Calcium	milligrams per litre	Special Frequency 1	Grab sample
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Fluoride	milligrams per litre	Special Frequency 1	Grab sample
Iron	milligrams per litre	Special Frequency 1	Grab sample
Magnesium	milligrams per litre	Special Frequency 1	Grab sample
Manganese	milligrams per litre	Special Frequency 1	Grab sample
Nitrate	milligrams per litre	Special Frequency 1	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	In situ
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Total Phenolics	micrograms per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Volumetric flowrate	kilolitres per day	Special Frequency 1	Estimate

POINT 5,6

Pollutant	Units of measure	Frequency	Sampling Method
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Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
BOD	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Nitrate	milligrams per litre	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Oil and Grease	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	micrograms per litre	Quarterly	Grab sample
Organophosphate pesticides	micrograms per litre	Quarterly	Grab sample
pH	pH	Quarterly	In situ
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total Phenolics	micrograms per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample
Volatile organic compounds	milligrams per litre	Quarterly	Grab sample

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Special Frequency 2	Grab sample
BOD	milligrams per litre	Special Frequency 2	Grab sample
Calcium	milligrams per litre	Special Frequency 2	Grab sample
Chloride	milligrams per litre	Special Frequency 2	Grab sample
Fluoride	milligrams per litre	Special Frequency 2	Grab sample
Iron	milligrams per litre	Special Frequency 2	Grab sample
Magnesium	milligrams per litre	Special Frequency 2	Grab sample
Manganese	milligrams per litre	Special Frequency 2	Grab sample
Nitrate	milligrams per litre	Special Frequency 2	Grab sample
Nitrogen (ammonia)	milligrams per litre	Special Frequency 2	Grab sample
Organochlorine pesticides	micrograms per litre	Special Frequency 2	Grab sample
Organophosphate pesticides	micrograms per litre	Special Frequency 2	Grab sample
pH	pH	Special Frequency 2	In situ
Potassium	milligrams per litre	Special Frequency 2	Grab sample
Sodium	milligrams per litre	Special Frequency 2	Grab sample

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Sulfate	milligrams per litre	Special Frequency 2	Grab sample
Total organic carbon	milligrams per litre	Special Frequency 2	Grab sample
Total Phenolics	micrograms per litre	Special Frequency 2	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample
Volatile organic compounds	milligrams per litre	Special Frequency 2	Grab sample
Volumetric flowrate	kilolitres per day	Special Frequency 2	Estimate

POINT 8,9,18,19,20

Pollutant	Units of measure	Frequency	Sampling Method
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	Grab sample
Aluminium	milligrams per litre	Quarterly	Grab sample
Aluminium (dissolved)	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Special Frequency 3	Grab sample
BOD	milligrams per litre	Quarterly	Grab sample
Cadmium	milligrams per litre	Special Frequency 3	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chemical oxygen demand	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Copper	milligrams per litre	Special Frequency 3	Grab sample
Dissolved organic carbon	milligrams per litre	Quarterly	Grab sample
Electrical conductivity	microsiemens per centimetre	Quarterly	In situ
Faecal Coliforms	colony forming units per 100 millilitres	Yearly	Grab sample
Fluoride	milligrams per litre	Quarterly	Grab sample
Iron	milligrams per litre	Quarterly	Grab sample
Iron (dissolved)	milligrams per litre	Quarterly	Grab sample
Lead	milligrams per litre	Special Frequency 3	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Manganese	milligrams per litre	Quarterly	Grab sample
Manganese (dissolved)	milligrams per litre	Quarterly	Grab sample
Mercury	milligrams per litre	Special Frequency 3	Grab sample
Methylene Blue Active Substances	milligrams per litre	Special Frequency 4	Grab sample
NH3-N	milligrams per litre	Quarterly	Grab sample
Nickel	milligrams per litre	Special Frequency 3	Grab sample
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	micrograms per litre	Yearly	Grab sample
Organophosphate pesticides	micrograms per litre	Yearly	Grab sample

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pH	pH	Quarterly	In situ
Phosphorus	milligrams per litre	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Total Kjeldahl Nitrogen	milligrams per litre	Special Frequency 5	Grab sample
Total organic carbon	milligrams per litre	Quarterly	Grab sample
Total Phenolics	micrograms per litre	Yearly	Grab sample
Volatile organic compounds	milligrams per litre	Yearly	Grab sample
Zinc	milligrams per litre	Special Frequency 3	Grab sample

- M2.4 For the purposes of the table(s) above Special Frequency 1 means the collection of samples once in each 3-monthly period at a time of stormwater discharge from Point 1 and on each occasion that discharge from Point 1 incorporates leachate overflow from Point 17.
- M2.5 For the purposes of the table(s) above Special Frequency 2 means the collection of samples once in the first 24 hours after detection of discharge and then weekly whilst the discharge continues.
- M2.6 For the purposes of the table(s) above Special Method 1 means monitoring must be undertaken in accordance with Benchmark Techniques 15, 16, 17 and 18 defined in the document "Environmental Guidelines: Solid Waste Landfills, NSW EPA 1996".
- M2.7 For the purposes of the table(s) above Special Frequency 3 means analysis must only be completed where any of Iron (dissolved), Aluminium (dissolved) or Manganese (dissolved) exceed a concentration of 10 milligrams per litre.
- M2.8 For the purposes of the table(s) above Special Frequency 4 means sampling and analysis must be completed on a quarterly basis and the units for reporting must be MBAS, calculated as LAS (linear alkyl benzene sulfonate), with the molecular weight used for the calculation specified.
- M2.9 For the purposes of the table(s) above Special Frequency 5 means sampling and analysis for TKN (dissolved) must be completed on a quarterly basis.

M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.
- M3.2 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.

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

M4 Recording of pollution complaints

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M4.2 The record must include details of the following:

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

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M6 Other monitoring and recording conditions

M6.1 The licensee must monitor the remaining disposal capacity (in cubic metres) of the landfill.

M6.2 The licensee must monitor and record daily rainfall at the premises.

M6.3 For the purpose of complying with conditions R2.4 the licensee must monitor overflow events from the

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following discharge points : Point 7 and Point 17.

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.
- 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 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.

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

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- 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.
- R2.3 The licensee must notify the EPA within 24 hours in accordance with condition R2.1 if subsurface monitoring detects methane above 1.25% (v/v), and increase the frequency of monitoring to daily, until the EPA determines otherwise.
- R2.4 Whenever leachate is discharged to surface waters from the premises the licensee must notify the event to the EPA in accordance with condition R2.1.
- R2.5 The licensee must provide written details of any leachate discharge(s) to the EPA within 7 days of the date on which the incident occurred in accordance with condition R2.6.
- R2.6 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:
 - i) on the day(s) of the discharge; and
 - ii) 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;
 - g) a plan of action to prevent a similar discharge in the future; and
 - h) was the discharge permitted by this licence.

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

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written 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;

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- 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.

R4 Other reporting conditions

- R4.1 The licensee must record the following data in relation to fires occurring at the premises:
- a) Time and date when the fire started.
 - 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 burnt out or was extinguished.
 - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
 - e) Prevailing weather conditions at the time of the fire.
 - f) Observations made in regard to smoke direction and dispersion.
 - g) The amount of waste that was combusted by the fire.
 - h) Action taken to extinguish the fire;
 - i) Action taken to prevent a reoccurrence.

The data must be recorded on each day that the fire is burning.

R4.2 The licensee or its employees or agents must notify the DECC of the occurrence of all fires on the premises that meet the criteria below. Notification must be made in accordance the requirements of conditions R2.1, R2.2 and R4.1 as soon as practical after becoming aware of the fire.

The licensee need only report fires to the EPA that:

- Require Fire Services to be in attendance to aid with control or extinguishing of the fire; OR
- Combust greater than 2.5 cubic metres of waste material; OR
- Cause environmental or nuisance complaints to be received from the public or users of the landfill.

7 General Conditions

G1 Copy of licence kept at the premises or plant

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

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

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

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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 David Dutailis

Environment Protection Authority

(By Delegation)

Date of this edition: 09-January-2001

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End Notes

- 1 Licence varied by notice 1015144, issued on 23-Oct-2002, which came into effect on 17-Nov-2002.
- 2 Licence varied by notice 1025644, issued on 24-Nov-2003, which came into effect on 19-Dec-2003.
- 3 Licence transferred through application 142677, approved on 02-Jun-2004, which came into effect on 17-Mar-2004.
- 4 Licence varied by notice 1060402, issued on 01-Jun-2006, which came into effect on 01-Jun-2006.
- 5 Licence varied by correction to spatial data, issued on 20-Apr-2007, which came into effect on 20-Apr-2007.
- 6 Licence varied by notice 1084085, issued on 10-Apr-2008, which came into effect on 10-Apr-2008.
- 7 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 8 Licence varied by notice 1093158, issued on 20-Mar-2009, which came into effect on 20-Mar-2009.
- 9 Licence varied by notice 1129261, issued on 23-Jun-2011, which came into effect on 23-Jun-2011.
- 10 Licence varied by notice 1510669 issued on 10-Apr-2014
- 11 Licence varied by notice 1526948 issued on 10-Apr-2015